



Region 6 Compliance Assurance and Enforcement Division INSPECTION REPORT

Inspection Date(s):	12/17/13		
Media:	Water		
Regulatory Program(s)	CWA		
Company Name:	EXPO New Mexico		
Facility Name:	EXPO New Mexico Concentrated Animal Feeding Operation (CAFO)		
Facility Physical Location:	Facility located on the New Mexico Fairgrounds		
(city, state, zip code)	Albuquerque, NM 87108		
Mailing address:	300 San Pedro Dr. NE		
(city, state, zip code)	Albuquerque, NM 87108		
County/Parish:	Bernalillo County		
Facility Contact:	John Jaramillo	Deputy Agency Director	
	JohnC.Jaramillo@state.NM.US		
FRS Number:			
Identification/Permit Number:	NMU001778 (NMG010068)		
Media Number:			
NAICS:			
SIC:	0272		
Facility Representatives:	Dan Mourning	General Manager	505 222-9700
	John Jaramillo	Deputy Agency Director	505 239-3491
	Ron Hensley	Consultant	505 410-1622
	Allison Hedgecock	Chief Legal Counsel	505 221-8888
EPA Inspectors:	Abu Senkayi	6EN-WR	214 665-8403
State Inspector(s):	Sarah Holcomb	New Mexico Environmental Division (NMED)	505 827-2798
Other Inspector(s):			
Metadata	Title:	EXPO New Mexico Albuquerque Bernalillo New Mexico	
	Author:	US EPA Region 6 Compliance Assurance and Enforcement Division Dallas TX	
	Subject:	CWA Compliance Evaluation Inspection Report	
	Keywords:	Concentrated animal feeding operation CAFO	
EPA Lead Inspector	Abu Senkayi		1/24/14
Signature/Date			Date
Supervisor	Willie Lane		1-24-14
Signature/Date			Date

Section I - INTRODUCTION

PURPOSE OF THE INSPECTION

EPA Region 6 inspector, Abu Senkayi, and NMED inspector, Sarah Holcomb, arrived at the EXPO New Mexico administration building at about 9:00 AM on Tuesday, December 17, 2013, for an announced inspection of the EXPO New Mexico (EXPO NM) concentrated animal feeding operation (CAFO). This was a follow-up inspection to determine whether EXPO NM had complied with all the requirements of EPA's previously issued Administrative Orders (AOs). Before the inspection started, a brief pre-inspection meeting with facility representatives was held during which I explained the purpose of the inspection. The following facility representatives attended the meeting:

- Dan Mourning – General Manager
- John Jaramillo – Deputy Agency Director
- Allison Hedgecock – Chief Legal Counsel
- Ron Hensley - Consultant

Following my introductory remarks, Mr. Dan Mourning presented an overview of the actions EXPO NM management has undertaken to address EPA's AOs. These actions include: (1) modifying the site to isolate and contain storm water runoff from the EXPO NM animal confinement area and, (2) constructing a new system for pre-treating process wastewater (wash racks wastewater) before discharging it into the City of Albuquerque (COA) publicly owned treatment works (POTW). Mr. Mourning stated that EXPO NM received the 2013 "Gold Pretreatment Award" in recognition of its complete and consistent compliance with its industrial Wastewater Discharge Permit No. 2253A. Following Mr. Mourning's comments, Mr. Ron Hensley briefly outlined the steps and timeline for the construction activities implemented by EXPO NM, in response to EPA's AOs. The major construction activities included:

- Installation of a retention dam in the existing COA surface impoundment to isolate storm water runoff from the EXPO NM animal confinement area and storm water runoff from the COA streets;
- Plugging of the 5 existing inlets;
- Construction of surface improvements, diversion devices, and drainage swells to keep out surface water inflows onto the EXPO NM animal confinement area;
- Installation of the wash racks wastewater treatment system; and
- Surface soil improvements to increase infiltration and minimize runoff from the animal confinement area.

I requested EXPO NM to provide EPA with a brief description of the activities described by Mr. Hensley, including the timeline and the actual costs incurred for each major construction activity. I requested that this information be submitted to EPA in about 3 weeks from the date of the inspection. I also requested the facility to provide me with copies of the discharge permit and all available manure and wastewater management and monitoring records that are maintained onsite to comply with the

facility's Region 6 CAFO general permit requirements. Following the pre-inspection meeting, the EXPO NM team accompanied EPA and NMED inspectors as they inspected the facility.

FACILITY DESCRIPTION

EXPO NM is a political subdivision of the State of New Mexico. This State agency is responsible for operating a year-round service and events facility and for putting on the annual state fair. The EXPO NM facility (about 224 acres) is located within the metropolitan area of the COA and is surrounded by a fully developed urban community. EXPO NM has leased a portion of its facility (83 acres) to the Downs at Albuquerque, Inc., (the Downs) for operation of a race track and casino. However, EXPO NM is responsible for implementing all the CAFO-related operations, including stabling, feeding, and maintenance of animals. The animal confinement area is about 45.2 acres and includes the stables and barns areas

Section II – OBSERVATIONS

In November 2011, an NMED inspection of this facility documented illicit discharges of CAFO wastes through storm water runoff to the COA MS4 system which then discharges to the Rio Grande. On January 17, 2012, EPA issued an AO No. CWA-06-2012-1761 to EXPO NM and the Downs (Respondents) requiring them to take all necessary measures to prevent any discharge of CAFO pollutants in storm water runoff to waters of the U.S., through the COA MS4 system

In response to EPA's AO, EXPO NM submitted plans to EPA on May 11, 2012, and August 13, 2012, proposing the following construction and site modification activities designed to prevent the discharge of pollutants from the facility to waters of the U.S. via the COA MS4 system:

1. Temporarily capping the existing 5 inlets that discharge runoff from the EXPO NM animal confinement area into the COA MS4 system. EXPO NM proposed to reclaim and resume the use of its 5 inlets following the construction of a new storm drain system through the EXPO NM facility by the COA;
2. Designing and constructing an evaporation retention control structure (pond) with adequate capacity to contain all storm water runoff during a 25-year, 24-hour storm event;
3. Grading the existing topography of the CAFO animal confinement area to assure that storm water runoff from the site is directed to collection points that eventually discharge into the retention control structure; and
4. Obtaining permit coverage under the EPA Region 6 CAFO general permit and complying with the requirements of the Region 6 CAFO general permit.

In order to confirm completion of these tasks during the inspection, we inspected each of the locations specified in the plan submitted by EXPO NM.

Location 1

We observed one of the two water diversion structures (Appendix 1, Photo #1) designed to keep out surface water inflows onto the EXPO NM animal confinement area. The second diversion structure installed to divert run-on away from the CAFO portion of EXPO's facility is shown in Appendix 1, Photo #7. We also observed gutters installed on buildings to prevent clean water from entering the animal confinement area (Appendix 1, Photo #2). This clean water is diverted into the COA's MS4 system (Appendix 1, Photos #3 and #14). Storm water runoff from areas outside of the EXPO NM animal confinement area is diverted through storm drains and curbed street flow to prohibit the entry of the water onto the animal confinement area. All storm water runoff from the animal confinement area is diverted with surface control measures into the evaporative retention control structure with a capacity of about 6.6 acre-feet. The retention pond was constructed in accordance with NRCS design specifications and is adequate to contain runoff from the facility's animal confinement area during a 25-year, 24-hour storm event.

Location 2

We observed a concrete-lined surface drain system (Appendix 1, Photo #4) that is designed to collect process wastewater (wash racks wastewater) from animal wash racks located in the stable areas (Appendix 1, Photo #5) to the wastewater treatment structure (two below ground tanks) and finally to the pumping station. The concrete-lined wastewater conveyance system leads directly to grated drop inlets (Appendix 1, Photo #6) which carry the wastewater to EXPO NM's wastewater treatment facility.

Location 3

Appendix 1, Photo #8 shows the location of the former grated drop inlets that previously discharged polluted storm water runoff from the animal confinement area into the COA MS4 system. These former grated drop inlets have since been disconnected by installing a sheet of corrugated metal and some pond liner, followed by paving over the area with asphalt.

Location 4

We observed temporary solid manure covered storage bins located next to animal barns/stalls. According to facility personnel, manure is scrapped out of these bins daily. The total number of manure storage bins at this facility was estimated to be 32. We observed an area between the barns where fresh dirt had been spread to increase infiltration and minimize runoff from the animal confinement area. This area had been graded to ensure that any runoff is directed to the storm water retention control structure (Appendix 1, Photo #9).

Location 5

We observed the EXPO NM wash racks wastewater treatment system (consisting of two below ground tanks) and the wastewater pumping station (Appendix 1, Photo #10). The treatment system removes sediments and floatable solids from the wastewater before it is pumped into the COA POTW system. In the event of a major rainfall event, the tanks fill up but no pumping of wastewater into the COA POTW system occurs. The system is equipped with a bypass (Appendix 1, Photos #11 and #12) that allows for

the flow to be diverted to the evaporative storm water runoff retention control structure during precipitation events. The EXPO NM effluent monitoring system (EFMS) became active on June 13, 2013. The system is equipped with a state-of-the-art GF Signet (8550-3) Flow Transmitter measuring both GPM (gallons per minute) as well as daily and cumulative flows measurements. The system is constantly monitored by designated EXPO NM staff to ensure that it is properly functioning as designed.

Location 6

We observed the EXPO NM storm water runoff retention control structure (lagoon) (Appendix 1, Photo #13). The runoff retention control structure has an estimated storage capacity of about 6.6 acre feet. The two month storage requirement is 3.9 acre feet. This lagoon was constructed by installing a dam across a previously existing COA storm water retention pond (Appendix 1, Photos #13 and #16). We observed that the lagoon did not have a 2-foot freeboard marker as required by the CAFO general permit. The EXPO NM CAFO permit requires a permanent marker to be installed in the pond identifying the required 25-year, 24-hour storm volume in the pond. When asked about this non-compliance with the CAFO permit, EXPO NM staff indicated that the marker will be installed as soon as the pond dries out.

Section III – AREAS OF CONCERN

EXPO NM has taken all the necessary measures needed to comply with EPA's AOs (CWA-06-2012-1761 and CWA-06-2012-1807) (Appendix 2). EXPO NM has put in place a storm water collection system, which when properly operated and maintained will prevent the discharge of storm water runoff from its animal confinement area into the Rio Grande, a water of the U.S., via the COA MS4 system.

EXPO NM has also put in place a wastewater treatment structure and a wastewater pump station to treat and discharge its wash racks wastewater into the COA POTW system. The facility applied and received a wastewater discharge permit (Permit No. 2253A) to treat and discharge its racks wash wastewater into the COA POTW system. EXPO NM received the 2013 "Gold Pretreatment Award" in recognition of its complete and consistent compliance with its wastewater discharge permit No. 2253A (Appendix 3).

EXPO NM applied for and received permit coverage under the Region 6 CAFO general permit (Permit No. NMG010068) as was required by EPA's AOs. The EXPO NM CAFO permit and nutrient management plan (NMP) are included in (Appendix 4 and Appendix 5, respectively). Appendix 6 includes a copy of the semi-annual report submitted to the Albuquerque Water Authority, as required by Permit No. 2253A. Appendix 7 includes monitoring data related to CAFO permit annual reporting requirements.

However, the following concerns were noted during this inspection:

- It appears that EXPO NM has constructed a storm water runoff retention structure (lagoon) with adequate capacity to contain all the storm water runoff generated from the facility's animal confinement area, during a 25-year, 24-hour storm event. Such a structure was constructed by

installing a dam across the previously existing COA storm water retention pond (Appendix 1, Photo #13). My concern is that no documentation has been provided to EPA to prove that the other half of the pond (Appendix 1, Photos #14 and #15) has adequate capacity to contain all the storm water runoff from the COA streets. On November 2, 2012, during a meeting between EPA and all stakeholders involved in this case, the COA officials indicated that the COA was planning to construct a new storm water drain system across the EXPO NM facility or around the EXPO NM facility. When asked, the EXPO NM officials could not provide any information on whether or not the COA was still planning to construct a new storm water drain system across the EXPO NM facility. However, Mr. Dan Mourning indicated that EXPO NM is currently in negotiations with the COA on this issue. The concern here is that there is a possibility that the COA portion of the pond could overflow across the dam (Appendix 1, Photo #16) into the EXPO NM storm water retention pond.

- Another area of concern is that EXPO NM has not yet installed a permanent marker in its storm water retention structure, as required by its CAFO general permit. The CAFO permit requires EXPO NM to install a permanent marker in the pond that clearly identifies the required 25-year, 24-hour storm volume in the pond. The level of the pond should be recorded on a weekly basis and after each precipitation event.

An exit interview was conducted during which the facility provided the following information:

- A copy of the "Pretreatment Gold Award" certificate presented to EXPO NM by the Albuquerque Bernalillo County Water Utility Authority (Water Authority) in recognition of "complete and consistent compliance with its pretreatment Permit No 2253A"
- A copy of the EXPO NM report entitled "EXPO NM Annual Reporting Requirements." EXPO NM is required to submit this report to EPA and NMED annually.

Section IV – FOLLOW UP

On January 14, 2014, Mr. Ron Hensley provided information on the costs of the injunctive relief construction activities implemented by EXPO NM in response to EPA's AOs (Appendix 8). Mr. Hensley also provided a description of EXPO NM's wastewater handling and storage system, including the attached flow diagram (Appendix 9). As shown in Appendix 9, the facility provides animal wash racks in the stable areas. The process water from these operations is collected in surface drains and flows to the treatment structure and pumping station. The treatment structure removes sediments and floatables from the wastewater. The process wastewater is transferred by the pumping station to the municipal sanitary sewer. The system is equipped with a bypass that allows for the flow to be diverted to the evaporation pond during precipitation events. Solids are removed and placed in a nearby covered storage.

Section V – LIST OF APPENDICES

Appendix 1 – Photo Log – 16 photos taken by Sarah Holcomb (NMED inspector) on 12/17/13
 Appendix 2 – AO # CWA-06-2012-1761 issued to EXPO on 1/17/12
 Appendix 3 – EXPO's Pretreatment Gold Award
 Appendix 4 – Permit No. NMGO10068 issued on July 16, 2013
 Appendix 5 – Permit No. NMGO10068 (NMP)

Appendix 6 – EXPO’s Wastewater Discharge Permit #2253A Semi-Annual Report

Appendix 7 – CAFO Permit Monitoring Requirements/Data

Appendix 8 – Costs of injunctive relief construction activities

Appendix 9 – Wastewater flow diagram

Appendix 1

Photo Log

Inspection Report Photo Log

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Official Photograph Log

Photo No. 1

Photographer: Sarah Holcomb	Date: 12/17/2013
Location: EXPO New Mexico	
City/County: Alburquerque/Bernalillo	State: NM



Photo Information: Water diversion structure/berm installed to divert storm water run-on away from the CAFO area of the facility to minimize the addition of uncontaminated storm water.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Official Photograph Log

Photo No. 2

Photographer: Sarah Holcomb	Date: 12/17/2013
Location: EXPO New Mexico	
City/County: Albuquerque/Bernalillo	State: NM



Photo Information: Uncontaminated roof runoff has been connected to new piping that is directly diverted into the City of Albuquerque's storm water system.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Official Photograph Log

Photo No. 3

Photographer: Sarah Holcomb	Date: 12/17/2013
Location: EXPO New Mexico	
City/County: Alburquerque/Bernalillo	State: NM



Photo Information: Uncontaminated roof runoff has been connected to new piping that is directly diverted into the City of Albuquerque's storm water system.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Official Photograph Log

Photo No. 4

Photographer: Sarah Holcomb	Date: 12/17/2013
Location: EXPO New Mexico	
City/County: Alburquerque/Bernalillo	State: NM



Photo Information: A new culvert/drainage system has been installed to convey the wastewater from horse washing to the treatment system. This channelizes the water and efficiently conveys it through the facility. All of the horse wash racks are connected to this conveyance.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Official Photograph Log

Photo No. 5

Photographer: Sarah Holcomb	Date: 12/17/2013
Location: EXPO New Mexico	
City/County: Alburquerque/Bernalillo	State: NM



Photo Information: The horse wash racks are directly connected to the new conveyance.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Official Photograph Log

Photo No. 6

Photographer: Sarah Holcomb	Date: 12/17/2013
Location: EXPO New Mexico	
City/County: Alburquerque/Bernalillo	State: NM



Photo Information: The new conveyance system leads directly to grated drop inlets, which carry the wastewater to the EXPO's wastewater treatment facility.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Official Photograph Log

Photo No. 7

Photographer: Sarah Holcomb	Date: 12/17/2013
Location: EXPO New Mexico	
City/County: Alburquerque/Bernalillo	State: NM



Photo Information: The second diversion structure/berm installed to divert run-on away from the CAFO portion of EXPO's facility.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Official Photograph Log

Photo No. 8

Photographer: Sarah Holcomb	Date: 12/17/2013
Location: EXPO New Mexico	
City/County: Alburquerque/Bernalillo	State: NM



Photo Information: View of the facility's roads within the CAFO area. To the right in the far background is the facility's racetrack. This road previously contained grated drop inlets that carried CAFO wastewater directly to the AMAFCA storm sewers. The grated drop inlets have since been capped by installing a sheet of corrugated metal and some pond liner and then paving over the area with asphalt.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Official Photograph Log

Photo No. 9

Photographer: Sarah Holcomb	Date: 12/17/2013
Location: EXPO New Mexico	
City/County: Alburquerque/Bernalillo	State: NM



Photo Information: In the barn areas, fresh dirt is brought in to facilitate a slowdown in the water's velocity to aid in particulate matter precipitation of storm water and to allow for proper grading to ensure that the wastewater is being directed to the treatment system.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Official Photograph Log

Photo No. 10

Photographer: Sarah Holcomb	Date: 12/17/2013
Location: EXPO New Mexico	
City/County: Alburquerque/Bernalillo	State: NM



Photo Information: View of the facility's wastewater treatment system's collection grates. The photographer is standing on the first grate, which contains a settling chamber and trash collection device. The wastewater is then routed to the second chamber (in the background) where it is pumped to the ABCWUA's treatment system.

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Official Photograph Log**

Photo No. 11

Photographer: Sarah Holcomb	Date: 12/17/2013
Location: EXPO New Mexico	
City/County: Alburquerque/Bernalillo	State: NM



Photo Information: The facility's rain gauge, which shuts off the pump to ABCWUA's system in the event of a rain storm. This prevents inflow and possibly infiltration into the Authority's system.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log

Photo No. 12

Photographer: Sarah Holcomb	Date: 12/17/2013
Location: EXPO New Mexico	
City/County: Albuquerque/Bernalillo	State: NM



Photo Information: Rain gauge/pump panel. The system does allow for a manual override to pump even when the rain gauge has stopped the system.

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Official Photograph Log**

Photo No. 13

Photographer: Sarah Holcomb	Date: 12/17/2013
Location: EXPO New Mexico	
City/County: Alburquerque/Bernalillo	State: NM



Photo Information: View of the dam to contain wastewater from the CAFO on the south side of the facility with the overflow located in the middle. The facility is designed with capacity to hold the 25 year/24 hour storm, plus two additional feet of freeboard to allow for subsequent storms.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Official Photograph Log

Photo No. 14

Photographer: Sarah Holcomb	Date: 12/17/2013
Location: EXPO New Mexico	
City/County: Alburquerque/Bernalillo	State: NM



Photo Information: This is the storm surge side of the dam still used by the City of Albuquerque during storm events. The inputs are as follows:

- 1) These culverts are part of the 2-pond storm surge system. These two pipes are inflow from pond #1.
- 2) Storm flow directed from Louisiana Road, underneath the CAFO area at EXPO, and collects in this storm surge pond.
- 3) This is the pipe that contains the uncontaminated roof runoff in the barn area (from the newly connected downspouts).

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Official Photograph Log

Photo No. 15

Photographer: Sarah Holcomb	Date: 12/17/2013
Location: EXPO New Mexico	
City/County: Alburquerque/Bernalillo	State: NM



Photo Information: The outflow from the storm surge pond to the AMAFCA system.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Official Photograph Log

Photo No. 16

Photographer: Sarah Holcomb	Date: 12/17/2013
Location: EXPO New Mexico	
City/County: Albuquerque/Bernalillo	State: NM



Photo Information: View of the dam. The right side is the CAFO wastewater retention area. The left side is the storm surge pond used by the City of Albuquerque.

Appendix 2

EPA Administrative Orders



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TEXAS 75202-2733

JAN 17 2012

CERTIFIED MAIL-RETURN RECEIPT REQUESTED (7005 1820 0003 7453 9059)
CERTIFIED MAIL-RETURN RECEIPT REQUESTED (7005 1820 0003 7453 9066)

Ms. Traci Wolf, CEO
Downs at Albuquerque, Inc.
P.O. Box 8510
Albuquerque, NM 87198

Mr. Dan Mourning, General Manager
EXPO New Mexico
P.O. Box 8546
Albuquerque, NM 87198

Re: Administrative Order Docket Number: CWA-06-2012-1761
NPDES Facility Number: NMU001778

Dear Ms. Wolf and Mr. Mourning:

Enclosed is an Administrative Order (AO) issued to Downs at Albuquerque, Inc. and EXPO New Mexico, for violation of the Clean Water Act (CWA) (33 U.S.C. § 1251 et seq.). Violations were identified through our review of an inspection of your facility conducted by the New Mexico Environment Department on November 15, 2011. The violations were discussed with you at the time of the inspection. The violations alleged include, but are not limited to, the following:

- Discharge of manure pollutants in storm water runoff to waters of the U.S. without permit authorization; and
- failure to submit a Notice of Intent for coverage under the Concentrated Animal Feeding Operation General Permit.

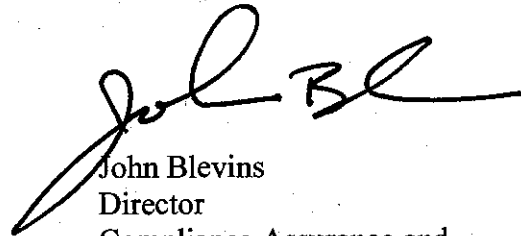
This AO does not assess a monetary penalty; however, it does require compliance with applicable federal regulations. The AO contains compliance actions that require your immediate attention. The AO also contains other compliance deadlines. The Environmental Protection Agency is committed to ensuring compliance with the requirements of the National Pollutant Discharge Elimination System (NPDES) program, and my staff will assist you in any way possible. Please reference AO Docket Number CWA-06-2012-1761 and NPDES Facility Number NMU001778 on your response.

Please also find enclosed an "Information Sheet" relating to the Small Business Regulatory Enforcement Fairness Act and a "Notice of Registrant's Duty to Disclose" relating to the disclosure of environmental legal proceedings to the Securities and Exchange Commission.

Re: Administrative Order ²
Downs at Albuquerque, Inc./EXPO New Mexico

If you have any questions, please contact Dr. Abu Senkayi, of my staff,
at (214) 665-8403.

Sincerely,

A handwritten signature in black ink, appearing to read "John Blevins", with a stylized flourish at the end.

John Blevins
Director
Compliance Assurance and
Enforcement Division

Enclosures

cc: Mr. James P. Bearzi
Bureau Chief
Surface Water Quality Bureau
New Mexico Environment Department
P.O. Box 5469
Santa Fe, NM 87502-5469



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TEXAS 75202-2733

JAN 17 2012

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P.O. Box 8510
Albuquerque, NM 87198

Mr. Dan Mourning, General Manager
EXPO New Mexico
P.O. Box 8546
Albuquerque, NM 87198

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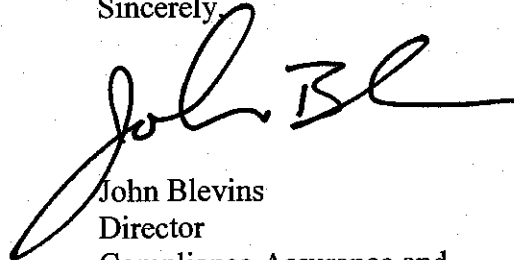
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Please also find enclosed an "Information Sheet" relating to the Small Business Regulatory Enforcement Fairness Act and a "Notice of Registrant's Duty to Disclose" relating to the disclosure of environmental legal proceedings to the Securities and Exchange Commission.

Re: Administrative Order 2
Downs at Albuquerque, Inc./EXPO New Mexico

If you have any questions, please contact Dr. Abu Senkayi, of my staff,
at (214) 665-8403.

Sincerely,

A handwritten signature in black ink, appearing to read "John Blevins". The signature is fluid and cursive, with a large initial "J" and a stylized "B".

John Blevins
Director
Compliance Assurance and
Enforcement Division

Enclosures

cc: Mr. James P. Bearzi
Bureau Chief
Surface Water Quality Bureau
New Mexico Environment Department
P.O. Box 5469
Santa Fe, NM 87502-5469

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 6

In the Matter of

Downs at Albuquerque, Inc. and
EXPO New Mexico

Respondents

Facility No. NMU001778

§ Docket No. CWA-06-2012-1761

§

§

§

§

§

§

§

§

FINDINGS OF VIOLATION

AND

ORDER FOR COMPLIANCE

Statutory Authority

The following findings are made, and Order issued, under the authority vested in the Administrator of the United States Environmental Protection Agency (EPA) by Section 309(a) of the Clean Water Act ("Act"), 33 U.S.C. § 1319(a). The Administrator of EPA delegated the authority to issue this Order to the Regional Administrator of EPA, Region 6, who further delegated this authority to the Director of the Compliance Assurance and Enforcement Division.

Findings

1. The Downs at Albuquerque, Inc. is a company doing business in the State of New Mexico and EXPO New Mexico is a political subdivision of the State of New Mexico ("Respondents"), and as such, Respondents are "persons," as that term is defined at Section 502(5) of the Act, 33 U.S. C. § 1362(5), and 40 C.F.R. § 122.2. EXPO New Mexico is responsible for operating a year-round service and events facility and for putting on the annual state fair. The Downs at Albuquerque, Inc. is a tenant of EXPO New Mexico and it operates a

race track and casino on the EXPO New Mexico fairgrounds. The Downs at Albuquerque, Inc. has leased approximately 93 of the EXPO New Mexico's 236 acres since 1985.

2. At all times relevant to this Order, the Respondents owned or operated the Downs at Albuquerque, Inc., located on the EXPO New Mexico fairgrounds, in the middle of the city of Albuquerque, New Mexico ("facility"), and were, therefore, "owners or operators" within the meaning of 40 C.F.R. § 122.2.

3. On November 15, 2011, the New Mexico Environmental Department ("NMED") conducted an on-site inspection of the facility on behalf of EPA Region 6.

4. The Downs at Albuquerque, Inc.'s facility is an "animal feeding operation" as defined in 40 C.F.R. § 122.23(b) because:

- i. Animals are stabled or confined, and fed or maintained at the facility for a total of 45 days or more in any 12 month period; and
- ii. crops, vegetation forage growth, or post-harvest residues are not sustained in the normal growing season over any portion of the lot or facility.

5. The facility stables, maintains, or confines more than 500 horses for a total of forty-five (45) days or more in any twelve (12)-month period. According to the information provided by facility representatives, the facility is designed to accommodate 1,374 horses and is operated at almost full capacity during the racing season, which is from August through mid-November (about 100 days). Therefore, the facility is a Large Concentrated Animal Feeding Operation ("CAFO") as defined at 40 C.F.R. § 122.23(b)(4)(vi) because it stables or confines more than 500 horses for at least forty-five (45) days in any twelve (12)-month period. One of the larger activities at this facility is the Arabian horse show event that brings in 900 horses. This event

lasts for about one and a half weeks. The Arabian horse show is normally held outside of the racing season. The 2011 event was held from July 23 through July 30, 2011.

6. A CAFO is a "point source" as defined in Section 502(14) of the Act, 33 U.S.C. § 1362(14).

7. Agricultural waste (including animal manure) is included in the definition of "pollutants" set out in Section 502(6) of the Act, 33 U. S. C. § 1362(6) and 40 C.F.R. § 122.2.

8. The facility had a "discharge" of "pollutants" to the receiving waters of the Rio Grande River, a "water of the United States" within the meaning of 40 C.F.R. § 122.2. Since there is no properly designed storm water runoff containment structure at this facility, storm water runoff, generated during significant rainfall events (more than 0.5 inches), discharges to a water of the United States. The discharge occurs via the EXPO New Mexico small Municipal Separate Storm Sewer System ("sMS4) to the Albuquerque large MS4; thence to the Rio Grande River in Segment 20.6.4.105 NMAC of the Rio Grande Basin. As indicated in Table 1, below, there were eighteen (18) significant rainfall events between 2007 and 2011, during which a discharge to a water of the United States occurred.

Table 1 Rainfall Data for the Albuquerque International Airport

Date	Rainfall (Inches)	Date	Rainfall (Inches)
05/01/2007	0.68	07/03/2009	0.51
05/16/2007	0.71	09/16/2009	0.66
07/21/2007	0.77	09/17/2009	0.59
08/04/2007	0.88	10/20/2009	0.57
09/20/2007	0.66		
		06/28/2010	0.69
06/29/2008	0.50	07/25/2010	0.98
07/18/2008	0.54	07/31/2010	0.50
07/22/2008	1.18	09/22/2010	1.77
		12/16/2010	0.96

9. Under Section 301 of the Act, 33 U.S.C. § 1311, it is unlawful for any person to discharge any pollutant from a point source to waters of the United States except with the authorization of, and in compliance with, an National Pollutant Discharge Elimination System ("NPDES") permit issued pursuant to Section 402 of the Act, 33 U.S.C. § 1342.

10. Section 402(a) of the Act, 33 U.S.C. § 1342(a), provides that the Administrator of EPA may issue permits under the NPDES program for the discharge of pollutants from point

sources to waters of the United States. Any such discharge is subject to such specific terms and conditions as are prescribed in the applicable permit.

11. Pursuant to Section 402 of the Act, EPA issued NPDES General Permit and Reporting Requirements for Discharges from Concentrated Animal Feeding Operations (58 Fed. Reg. 7610) ("general permit"), which became effective on March 10, 1993, and expired on March 10, 1998. EPA issued a new CAFO general permit in 2009, which became effective on September 3, 2009. The notice of the new CAFO general permit was published in the Federal Register on August 4, 2009 (Volume 74, Number 148, page 38615).

12. Because Respondents own and operate the facility, and the facility is a CAFO within the meaning of 40 C.F.R. Part 122, Respondents are required by Section 402(p) of the Act and 40 C.F.R. Part 122 to make application for permit coverage for the facility, and to comply with each applicable permit condition in operation of the facility.

13. A review of the EPA database in which NPDES permit applications are recorded indicates that Respondents have not applied for and/or obtained NPDES permit coverage from an individual permit or by filing a Notice of Intent to be covered by a general permit for discharge of pollutants from the facility to waters of the United States.

14. The Respondents, therefore, are in violation of Section 301(a) of the Act for discharging pollutants from a point source to waters of the United States, without a permit.

ORDER

Based on the foregoing Findings and pursuant to the authority of Section 309 of the Act, 33 U.S.C. § 1319(a), EPA hereby orders the Respondents to take the following action:

A. Respondents must immediately take all necessary measures to prevent any discharge of pollutants (including animal waste or industrial storm water) to waters of the United States from any part of the facility. These measures include, but are not limited to:

- 1) designing, constructing, operating and maintaining storm water containment structures with adequate capacity to contain all process-generated wastewater plus runoff from a 25-year, 24-hour storm event; and 2) developing and implementing a site-specific pollution prevention plan to minimize discharges of manure pollutants to waters of the U.S. Respondents must also seek permit coverage under the EPA Region 6 NPDES CAFO general permit even though the discharges from this facility are intermittent, sporadic, and even occasional. These intermittent or sporadic discharges are nonetheless unauthorized "discharges" under the Act and are prohibited unless authorized under the terms of the NPDES CAFO general permit.

B. Within thirty (30) days of the effective date of this Order, Respondents shall initiate a weekly visual inspection program to determine if any discharges are occurring. Respondent shall notify EPA of any discharges of pollutants from the facility by telephone within twenty-four (24) hours of the discharge, and in writing within five (5) days of the discharge. This notification must include: a description of the discharge, the cause of the discharge, the duration of the discharge, an estimated volume of the discharge, action(s) taken to prevent recurrence of a discharge, and the size of any precipitation event during the discharge. If any discharge is

observed, a sample of this discharge shall be taken and the sample shall be analyzed for fecal coliform, nitrogen, and phosphorous pursuant to 40 C.F.R. Part 136, "Guidelines Establishing Test Procedures for the Analysis of Pollutants." This visual inspection program shall be ongoing until the facility applies for and obtains coverage under the NPDES CAFO general permit.

C. Any information or correspondence submitted by the Respondents to EPA under this Order shall be forwarded to Ms. Nancy Williams at the following address:

Ms. Nancy Williams
Water Enforcement Branch (6EN-WC)
EPA, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202

Any written report sent to EPA in accordance with this Order will include the following statement:

I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

D. In order to Show Cause why Respondents have not complied with the Act and its regulations, and why EPA should not take further enforcement action against Respondents for the violations cited, Respondents should arrange a meeting with EPA within forty-five (45) days of the effective date of this Order. The meeting will be held at the Region 6 offices, 1445 Ross

Ave., Dallas, Texas. Respondents shall submit to EPA all information or materials considered relevant to this meeting at least ten (10) days prior to the meeting.

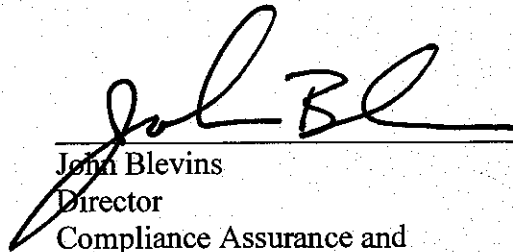
E. To arrange a meeting, or to ask questions or comment on this matter, please contact Dr. Abu Senkayi, of my staff, at (214) 665-8403.

General Provisions

Issuance of this Order shall not be deemed an election by EPA to forego any administrative or judicial, civil, or criminal action to seek penalties, fines, or any other relief appropriate under the Act for the violations cited herein. EPA reserves the right to seek any remedy available under the law that it deems appropriate. Failure to comply with this Order or the Act can result in further administrative action, or a civil judicial action initiated by the United States Department of Justice. This Order is not an NPDES permit, and compliance with the terms and conditions of this Order does not relieve the Respondents of their obligations to apply for and comply with any applicable permit, and comply with any applicable federal, state or local law or regulation.

The effective date of this Order is the date it is received by the Respondents.

1.17.12
Date



John Blevins
Director
Compliance Assurance and
Enforcement Division



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TEXAS 75202-2733

MAR 28 2012

CERTIFIED MAIL-RETURN RECEIPT REQUESTED: 7005 1820 0003 7453 8571
CERTIFIED MAIL-RETURN RECEIPT REQUESTED: 7005 1820 0003 7453 8588

Ms. Traci Wolf, CEO
The Downs at Albuquerque
P.O. Box 8510
Albuquerque, NM 87198

Mr. Dan Mourning, General Manager
Expo New Mexico
P.O. Box 8546
Albuquerque, NM 87198

Re: Administrative Order, Docket Number: CWA-06-2012-1807
NPDES Facility Number: NMU001778

Dear Ms. Wolf and Mr. Mourning:

Enclosed is an Administrative Order (AO) issued to the Downs at Albuquerque/ Expo New Mexico facility for violation of the Clean Water Act (CWA) (33 U.S.C. § 1251 *et seq.*). This AO is a follow-up to AO Docket Number CWA-06-2012-1761, issued to your facility by the Environmental Protection Agency (EPA) on January 17, 2012. Specifically, this AO requires your facility to submit a comprehensive plan for addressing the violations specified in the previously issued AO. The plan shall include:

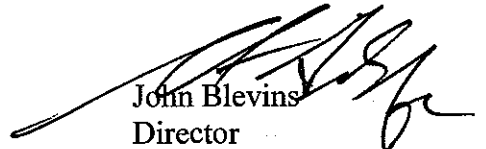
- A comprehensive written plan to eliminate the discharge of CAFO wastes to the storm sewer system;
- a schedule for implementing such a plan, which includes major milestones for the planning, design, and construction stages. The plan should also include a final compliance date for the project; and
- a cost analysis and a list of funding sources for the project.

This AO does not assess a penalty; however, it does require compliance with federal regulations within thirty (30) days of receipt of the AO. EPA is committed to ensuring compliance with the requirements of the National Pollutant Discharge Elimination System (NPDES) program, and my staff will assist you in any way possible. Please reference AO Docket Number CWA-06-2012-1807 and NPDES Facility Number NMU001778 on your response.

Re: Administrative Order 2
The Downs at Albuquerque/EXPO New Mexico

If you have any questions, please contact Dr. Abu Senkayi, of my staff,
at (214) 665-8403.

Sincerely,



John Blevins
Director
Compliance Assurance and
Enforcement Division

Enclosure

cc: James P. Bearzi
Bureau Chief
Surface Water Quality Bureau
New Mexico Department of Environmental Quality
P.O. Box 5469
Santa Fe, NM 87502



U.S. ENVIRONMENTAL PROTECTION AGENCY – REGION 6
FINDINGS OF VIOLATION AND COMPLIANCE ORDER

In the Matter of the Downs at Albuquerque, Inc. and EXPO New Mexico (Respondents)
Docket Number: CWA-06-2012-1807, NPDES Facility Number: NMU001778

STATUTORY AUTHORITY

The following findings are made, and Order issued under the authority vested in the Administrator of the United States Environmental Protection Agency (“EPA”), by Section 309(a) of the Clean Water Act (“Act”), 33 U.S.C. § 1319(a). The Administrator of EPA has delegated the authority to issue this Order to the Regional Administrator of EPA Region 6, who further delegated this authority to the Director of the Compliance Assurance and Enforcement Division.

FINDINGS

1. The Downs at Albuquerque, Inc., is a company doing business in the State of New Mexico, and EXPO New Mexico is a political subdivision of the State of New Mexico (“Respondents”), and as such, Respondents are “persons,” as that term is defined at Section 502(5) of the Act, 33 U.S.C. § 1362(5), and 40 C.F.R. § 122.2.
2. At all times relevant (“all relevant times”) to this Order, the Respondents owned or operated the Downs at Albuquerque, Inc., located on the EXPO New Mexico fairgrounds (“facility”), and were, therefore, “owners or operators” within the meaning of 40 C.F.R. § 122.2.
3. The facility is a large Concentrated Animal Feeding Operation (“CAFO”) as defined at 40 C.F.R. § 122.23(b)(4)(vi) because it stables or confines more than 500 horses for at least forty-five (45) days in any twelve (12) month period.
4. A CAFO is a “point source” as defined in Section 502(14) of the Act, 33 U.S.C. § 1362(14).
5. At all relevant times, the facility was a “point source” of a “discharge” of “pollutants” with its storm water to the receiving waters of the Rio Grande, which is considered a “water of the United States” within the meaning of Section 502 of the Act, 33 U.S.C. § 1362, and 40 C.F.R. § 122.2. Since there are no properly designed storm water runoff containment structures at this facility, process-generated wastewater plus storm water runoff, discharge into the Rio Grande via the City of Albuquerque Municipal Separate Storm Sewer System (“MS4”) whenever significant rainfall events (greater than 0.5 inches) occur.
6. Because the Respondents “owned or operated” a facility that acted as a point source of discharges of pollutants to waters of the United States, the Respondents and the facility were subject to the Act and the National Pollutant Discharge Elimination System (“NPDES”) program.

7. Under Section 301 of the Act, 33 U.S.C. § 1311, it is unlawful for any person to discharge any pollutant from a point source to waters of the United States, except with the authorization of, and in compliance with, an NPDES permit issued pursuant to Section 402 of the Act, 33 U.S.C. § 1342.

8. The Respondents, therefore, are in violation of Section 301(a) of the Act for discharging pollutants from a point source to waters of the United States without a permit.

9. On January 17, 2012, EPA issued Administrative Order number CWA-06-2012-1761 (“AO”), requiring Respondents to take all necessary measures to prevent any discharge of pollutants to waters of the United States.

10. In a letter dated February 13, 2012, EXPO New Mexico responded to EPA’s AO by stating that it had “modified its operations and facilities to prevent any discharge from the site.” However, this response did not include plans for designing and constructing the storm water containment structures needed by this facility.

ORDER

Based on the foregoing Findings and pursuant to the authority of Section 309 of the Act, EPA hereby orders the Respondents to take the following actions:

- A. Within thirty (30) days of the effective date of this Order, the Respondents shall submit to EPA a comprehensive written plan, certified by a professional engineer, for designing, constructing, operating and maintaining a storm water system to eliminate the discharge of CAFO wastes to the MS4. The plan shall include 1) project details and engineering specifications; 2) a schedule for implementation of the plan, which includes major milestones for the planning, design and construction stages and a final compliance date; and 3) a cost analysis which lists funding sources needed to implement such a plan.
- B. Any approved compliance schedule will be incorporated and re-issued in a future administrative order.
- C. To ask questions or comment on this matter, please contact Dr. Abu Senkayi, of my staff, at (214) 665-8403.
- D. Any information or correspondence submitted by the Respondent to EPA under this Order shall be addressed to the following:

Docket Number: CWA-06-2012-1807

Page 2

Dr. Abu Senkayi
Water Enforcement Branch (6EN-WR)
EPA, Region 6
1445 Ross Ave., Suite 1200
Dallas, TX 75202-2733

Copies of any submittals in response to this Order shall also be sent to:

Mr. James Bearzi
New Mexico Environment Department
Surface Water Quality Bureau
P.O. Box 5469
Santa Fe, NM 87502-5469

Failure to comply with this Order or the Act can result in further administrative action, or a civil judicial action initiated by the United States Department of Justice.

Compliance with the terms and conditions of this Order does not relieve the Respondent of its obligation to comply with all applicable federal, state, and local laws.

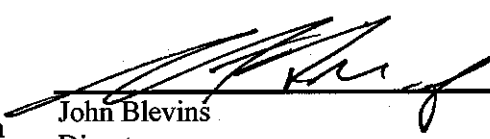
The effective date of this Order is the date it is received by Respondents.

MAR 28 2012

Date

E. Any written report sent to EPA in accordance with this Order will include the following statement:

I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.


John Blevins
Director
Compliance Assurance and
Enforcement Division

GENERAL PROVISIONS

Issuance of this Order shall not be deemed an election by EPA to forego any administrative or judicial, civil or criminal action to seek penalties, fines, or any other relief appropriate under the Act for the violations cited herein, or other violations that become known. EPA reserves the right to seek any remedy available under the law that it deems appropriate.

Appendix 3

EXPO Gold Award



Albuquerque Bernalillo County
Water Utility Authority

Pretreatment Gold Award

Presented to

EXPO New Mexico

Permit No.

2253A

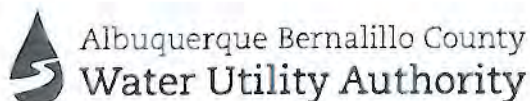
In Recognition of Complete and Consistent Compliance
With the Industrial Wastewater Permit
During the Program Year 2012-2013

Awarded *December 6, 2013*

Mark S. Sanchez, Water Authority Executive Director

Industrial Wastewater Pretreatment Program, Compliance Division





PO Box 568
Albuquerque, NM 87103
505-768-2500
www.abcwua.org

December 6, 2013

RECEIVED

DEC 11 2013

Chair

Art De La Cruz
County of Bernalillo
Commissioner, District 2

Vice Chair

Rey Garduño
City of Albuquerque
Councilor, District 6

Richard J. Berry
City of Albuquerque
Mayor

Trudy E. Jones
City of Albuquerque
Councilor, District 8

Debbie O'Malley
County of Bernalillo
Commissioner, District 1

Ken Sanchez
City of Albuquerque
Councilor, District 1

Maggie Hart Stebbins
County of Bernalillo
Commissioner, District 3

Ex-Officio Member
Pablo R. Rael
Village of Los Ranchos
Board Trustee

Executive Director
Mark S. Sanchez

Website
www.abcwua.org

EXPO New Mexico
P.O. Box 8546
Albuquerque, NM 87198

RE: GOLD AWARD FOR THE 2012-2013 PRETREATMENT YEAR

PERMIT NO: 2253A

FACILITY LOCATION: 300 San Pedro N.E., Albuquerque, NM

ATTN: Dan Mourning, General Manager

It is a pleasure to inform you of your Pretreatment Gold Award for Wastewater Discharge Permit No. 2253A. The Albuquerque Bernalillo County Water Utility Authority (Water Authority) appreciates the efforts by EXPO New Mexico management and employees to maintain an exceptional level of permit compliance.

The Industrial Pretreatment Program has been in existence for 28 years. For the 18th year, the Industrial Pretreatment Program is presenting an award to each permit holder that has demonstrated an exceptional level of compliance with discharge permit requirements. Awards are presented for the 2012 -2013 Pretreatment Year based upon the following criteria:

Gold Pretreatment Awards are given to permit holders for: (1) Operation of an active pretreatment system, 100% compliance with the reporting requirements and permit discharge limits; or (2) Operation of a zero discharge system and 100% compliance with the reporting requirements of the permit; or (3) Exceptional source reduction and pollution prevention in lieu of active pretreatment, 100% compliance with the reporting requirements and permit discharge limits.

Silver Pretreatment Awards are given to permit holders for: (1) Operation of an active pretreatment system, 100% compliance with the reporting requirements and 90% compliance with permit discharge limits; or (2) Exceptional source reduction and pollution prevention in lieu of active pretreatment, 100% compliance with the reporting requirements and 90% compliance with permit discharge limits.

Industries in Significant Non-Compliance, under Technical Review Criteria pursuant to 40 CFR 403.2, or under Administrative Order are not eligible for Gold or Silver Awards.

EXPO New Mexico
Gold Award for Permit No. 2253A
December 6, 2013
Page 2

If you have any questions or would like additional information, please contact me at 873-7047 or mkelly@abcwua.org.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Kelly". The signature is written in a cursive, flowing style.

Mark Kelly, P.E.
Industrial Waste Engineer

Appendix 4

EXPO CAFO Permit

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

REGION 6

1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

JUL 16 2013

CERTIFIED MAIL: RETURN RECEIPT REQUESTED (7010 2780 0002 4353 3463)

REPLY TO: 6WQ-NP

Mr. Dan Mourning
EXPO New Mexico
P.O. Box 8546
Albuquerque, NM 87198

Re: NPDES Permit No. NMG010068 – EXPO New Mexico

Dear Mr. Mourning:

Coverage under the National Pollution Discharge Elimination System (NPDES) General Permit for Discharges from Concentrated Animal Feeding Operations (CAFOs) in New Mexico (NMG010000) has been authorized for your facility. The notice of intent, nutrient management plan (NMP), and draft terms of the NMP to be incorporated into the permit for your facility received no comments. The enclosed terms of the NMP are hereby incorporated as site-specific terms and conditions of the general permit. Coverage under this permit begins on the date of this notice. An electronic copy of the permit and additional guidance materials can be viewed and downloaded at <http://www.epa.gov/region6/water/npdes/cafo/index.htm>.

Should you have any questions concerning the compliance with this permit, please feel free to contact the Enforcement Branch at the above address or telephone (214) 665-6468; if however, you should have questions with regards to this permit authorization, please contact the Permits Branch at the above address or telephone 214-665-7247.

Sincerely yours,

A handwritten signature in dark ink, appearing to read "W. Honker", is written over the typed name.
William K. Honker
Director

Water Quality Protection Division (6WQ)

Enclosure

cc: New Mexico Environment Department

APPENDIX E: TERMS OF THE NUTRIENT MANAGEMENT PLAN INCORPORATED INTO THE PERMIT

I. PERMITTEE

In accordance with Parts III.2.b and f of NPDES Permit No. NMG010000, the following terms of the nutrient management plan (NMP) are hereby incorporated as site specific terms and conditions of the general permit for:

NMG010068
EXPO New Mexico
P. O. Box 8546
Albuquerque, NM 87198

For the purposes of this permit, "NMP" refers to the latest version of the NMP approved by EPA. Any changes to the NMP must be submitted to EPA in accordance with Part III.A.6 of the permit.

II. SITE SPECIFIC PERMIT TERMS

A. Adequate Storage

Manure shall be stockpiled within the drainage areas of the retention control structures (RCS) or in a bermed area outside of the RCS drainage areas that prevents stormwater run-off and/or run-on.

Table 1

STORAGE STRUCTURE	STORAGE PERIOD (days)	TOTAL CAPACITY (ac- ft)
Evaporation Pond	365	6.6

B. Land Application

Land application of manure, litter, or process wastewater to land under the control of the permittee is not authorized under NMG010068.

C. Site Specific Conservation Practices

Not applicable. See Part B. above.

D. Protocols for appropriate testing of manure, litter, and process wastewater

Manure shall be sampled in accordance with the "2.2 Sampling, Calibration and Other Statements: Sampling Manure" section of the NMP.

E. Mortality Management

All mortalities shall be disposed of in accordance with the "2.3 Normal Mortality Management" section of the NMP.

F. Clean Water Diversion

Since this facility is within city limits, storm drain and curbed street flow will be used as perimeter controls to prevent clean water runoff from adjacent land from entering the evaporation retention pond.

Appendix 5

EXPO CAFO Permit (NMP)



Comprehensive Nutrient Management Plan

(New Mexico Version 1, 8/23/2011)

The State of New Mexico is required under the New Mexico Water Quality Act (Subsection C of Section 74-6-4 NMSA 1978) and the Federal Clean Water Act, as amended (33 U.S.C. Section 1251 et seq.) <ftp://ftp.nmenv.state.nm.us/www/swqb/Standards/2010/20.6.4NMAC-Integrated2010-12-15.pdf> to adopt water quality standards that protect the public health or welfare, enhance the quality of water and are consistent with and serve the purposes of the New Mexico Water Quality Act and the federal Clean Water Act. It is the objective of the federal Clean Water Act to restore and maintain the chemical, physical and biological integrity of the nation's waters, including those in New Mexico.

This CNMP provides the basic information on how the wastes produced from EXPO New Mexico will be utilized. The CNMP will assist in maintaining compliance with the New Mexico Water Quality Act and associated New Mexico Environment Department, (NMED) requirements. Adoption of this plan and the practices described within will prevent contact of animals and manure with state waters.

This CNMP documents the planning decisions and operation and maintenance for the animal feeding operation. It includes background information and provides guidance, reference information and Web-based sites where up-to-date information can be obtained.

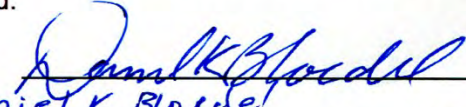
The CNMP will be updated at least once every five years. It will reflect the current operation of the AFO. Changes to the CNMP may be required if changes at the operation have occurred. Refer to the Producer Activity document for information about day-to-day management activities and recordkeeping. Both this document and the Producer Activity document shall remain in the possession of the producer/landowner.

Contact information: EXPO New Mexico
John Jaramillo
P.O. Box 8456
Albuquerque, NM 87198
505-222-9700

Latitude/Longitude: 35.0832/-106.5728
Plan period: 6/1/2013-5/31/2014

Conservation Planner

As a Conservation Planner, I certify that I have reviewed both the *Comprehensive Nutrient Management Plan* for technical adequacy and that the elements of the documents are technically compatible, reasonable and can be implemented.

Signature:  Date: May 16, 2013
Name: Daniel K. Bloddel
Title: Resource Conservationist Certification Credentials: NRCS

Owner/Operator

As the owner/operator of this CNMP, I, as the decision maker, have been involved in the planning process and agree that the items/practices listed in each element of the CNMP are needed. I understand that I am responsible for keeping all the necessary records associated with the implementation of this CNMP. It is my intention to implement/accomplish this CNMP in a timely manner as described in the plan.

Signature: _____
Name: _____

Date: 5-16-13

Wastewater Handling and Storage

Signature: _____
Name: _____

Date: 5-16-13

Title: ENGINEER

Certification Credentials: NMPE 17154

Sensitive data as defined in the Privacy Act of 1974 (5 U.S.C. 552a, as amended) is contained in this report, generated from information systems managed by the USDA Natural Resources Conservation Service (NRCS). Handling this data must be in accordance with the permitted routine uses in the NRCS System of Records at http://www.nrcs.usda.gov/about/foia/408_45.html. Additional information may be found at http://www.ocio.usda.gov/qi_request/privacy_statement.html.

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- 1.1. Description of Operation
- 1.2. CNMP Summary

Section 2. Handling and Storage

- 2.1. Manure Handling and Storage
- 2.2. Manure Sampling, Calibration and Other Statements
- 2.3. Normal Mortality Management
- 2.4. Wastewater Handling and Storage
- 2.5. Clean Water Handling and Storage
- 2.6. Map(s) of Production Facility
- 2.7. Material Storage
- 2.8. Map(s) of Production Facility
 - Surface Water and Structural Control Map
 - Animal Confinement and Material Storage Map

Section 3. Safety and Security

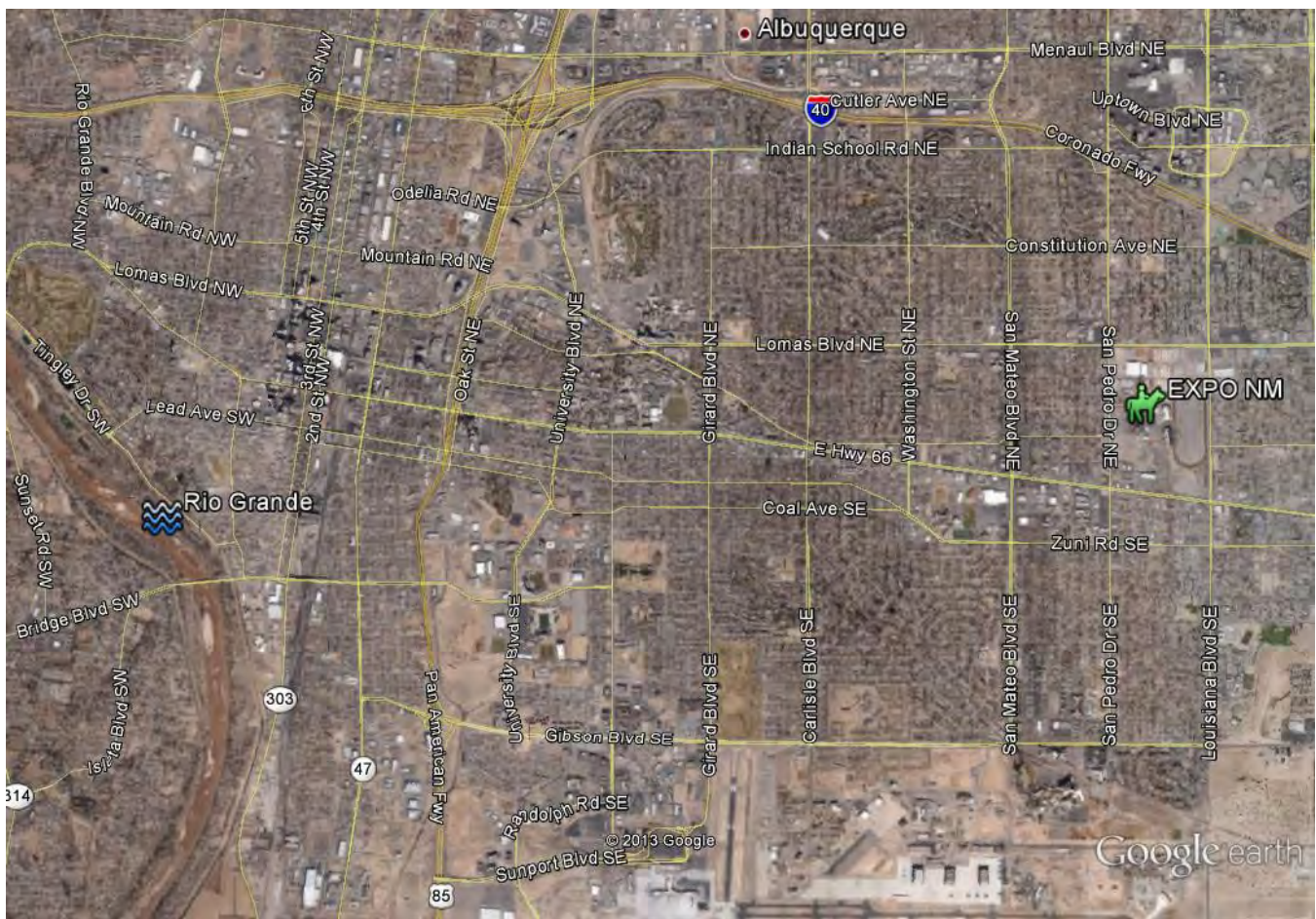
- 3.1. Emergency Response Plan
- 3.2. Biosecurity Measures

Section 4. Recordkeeping**Section 5. Operation and Maintenance**

Section 1. Background and Site Information

1.1. Description of Operation

The EXPO New Mexico site is located within the metropolitan area of Albuquerque, New Mexico (Coordinates: 35.0832, -106.5728). The surrounding area is a fully developed urban community. The EXPO New Mexico site encompasses 224 acres, which includes a variety of uses, buildings, parking areas, barns, stalls and racing facilities. EXPO New Mexico is responsible for the New Mexico State Fair and operates a year-round service and events facility on the EXPO New Mexico site. EXPO New Mexico has leased the operation of a race track and casino on approximately 83 acres of the site to the Downs at Albuquerque, Inc. The animal operations are limited to the 45.2 acres of the facility. The stabling, feeding and maintenance of the animals on site are conducted within the containment of the stables and barns of this area. There is no direct contact of animals with waters of the U.S. As shown on the Area Map the nearest surface water body of the Rio Grande is 4.8 miles from the animals confined to the site.



Area Map

1.2. Summary of CNMP

Decision maker: John Jaramillio
 Address: P.O. Box 8456, Albuquerque, NM 87198
 Phone: 505-222-9700
 Date: 12/31/12

General

The Comprehensive Nutrient Management System for EXPO New Mexico was planned and designed with the involvement of Mr. John Jaramillo. The plan is based on decisions and choices made by him. The system is planned to manage waste generated by the facility in a manner that prevents or minimizes degradation of soil, water, air, plant, and animal resources and protects public health and safety. It is also planned to preclude discharge of pollutants to surface water from a 25-year, 24-hour storm event, to minimize ground water contamination, and to recycle the waste produced through a waste transfer to the municipal compost facility. EXPO New Mexico will not be directly utilizing land application.

Special Conditions

This plan addresses the requirements required by Part III of General Permit NM010000 for the development and implementation of a CNMP. Section 2 of the plan includes the site specific practices and procedures to implement the applicable effluent limitations and standards. The following describes the functions of production, collection, transfer, and storage. The operation and maintenance, and safety requirements for the system presented in this plan are organized by these functions.

System description

The CNMP was planned to accommodate manure and effluent for at least 60 days of storage from the 150 to 1500 horses contained in the facility, and to contain runoff from a 25-year, 24-hour storm event.

The facility is primarily unpaved, within the exception of parking areas and stalls. Manure within the stalls are collected, stacked and transferred to a municipal compost facility.

Decision maker's responsibilities

Mr. John Jaramillo is responsible for the proper installation, operation, and maintenance of the waste management system. The pond system was designed by THE Group. This CNMP was reviewed by Daniel K. Bloedel with the Natural Resources Conservation Service.

Mr. Dan Mourning is responsible for obtaining a surface water discharge permit (NPDES) from the Environmental Protection Agency, and all other necessary permits to operate the system. The system must be operated and maintained in accordance with these permits and other laws and regulations that pertain to its operation including any local and state governmental agencies. All personnel must be trained and informed of the safety and the operation and maintenance requirements for the system.

Production function requirements

The facility provides animal wash racks in the stable areas. The process wastewater will be transferred to the sanitary sewer system unless bypassed to the evaporation pond. Solids are removed and placed in a nearby covered storage.

The system is also designed to store runoff (liquid) in a retention pond.

Collection function requirements

Storm water runs off the CAFO area and flows west and ends up at the northwest corner of the containment area. At the northwest corner lays an evaporation pond.

Storage function requirements

The runoff retention pond has an estimated storage capacity of 6.6 acre feet. The two month storage requirement is 3.9 acre feet. Additional storage capacity exists within the containment area if one calculates the ditches which convey runoff.

The pond shall be inspected at least annually and after unusual storm events. The embankments will be inspected for leaks, slope failures, erosion, and excessive settlement. Excavated slopes will be inspected for slope failures and erosion. Repairs shall be made promptly.

Transfer function requirements

The transfer function applies to movement and transport of the waste throughout the system. Solid manure will be removed and stacked. This will be done daily and staged at a collection sites located throughout the CAFO area. Heavy equipment will be used to remove the manure and place it into solid manure storage bin.

Unless bypassed to the evaporation pond, process wastewater will be transferred to the Albuquerque Bernalillo County Water Utility Authority for treatment at the municipal wastewater treatment plant.

Storm water collected in the retention pond will be allowed to evaporate.

Contingency Plan

In the case of equipment or other facility malfunction, the equipment failure or facility malfunction will be repaired and corrected immediately. Materials for repairs are on hand or can be obtained easily.

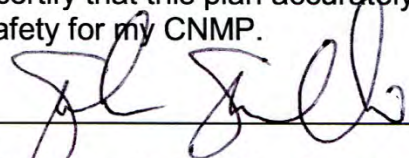
In the case of a wastewater spill: a pump is on hand to pump and remove the spill and properly apply it to the waste storage pond.

Public Protection

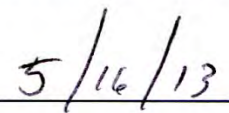
This CNMP Plan for EXPO New Mexico can be put into operation and managed as the plan states; and at the same time the public will be assured of water quality protection. This plan is the result of a coordinated resource conservation planning effort of the landowner, the USDA Natural Resources Conservation Service.

Decision maker acknowledgement

I certify that this plan accurately represents my decisions for installation, operation, maintenance, and safety for my CNMP.



 Mr. John Jaramillo, Deputy Director



 Date

Reviewed by: 

 Daniel Bloedel, Planner, NRCS

Section 2. Handling and Storage

2.1. Manure Collection and Storage

1. The manure and litter will be removed from stalls and placed in poly transport carts.
2. Poly carts will be emptied into multiple covered temporary storage bins. Angle of repose for dry stacked solids may vary from 1:1 to 1½ :1 (horizontal : vertical). Rapid surface drying minimizes fly propagation.
3. Heavy equipment will be used to remove the manure from the temporary bins and place it into the large solid manure storage bin.
4. Contract waste hauler will transfer the contents of the large solid manure storage bin to a municipal compost facility.

EXPO New Mexico will maintain records of the transfer of manure, litter, and process wastewater to other persons or operations. Transfer records will include:

- Date of Transfer
- Recipient name and address
- Measured (tons or gallons) amount of manure, litter, or process wastewater transferred to other persons or operations; and
- Verification that prior to transferring manure, litter, or process wastewater to other person or operations, the CAFO has provided the recipient of the manure, litter, or process wastewater with a current nutrient analysis

2.2. Sampling, Calibration and Other Statements

Sampling Manure

Manure will be analyzed at least annually from each storage structure for Total Kjeldahl Nitrogen, nitrate-nitrogen, total phosphorus, total potassium, and % solids or % moisture. Analysis results must be reported on an "as is" basis in units of lbs/1000 gallons (liquid manure) or lbs/ton (dry manure).

Collect a composite sample by following the procedures listed below. A method for mixing a composite sample is to pile the manure and then shovel from the outside to the inside of the pile until well mixed. Fill a one-gallon plastic heavy-duty zip lock bag approximately one-half full with the composite sample, squeeze out excess air, close and seal. Store sample in freezer if not delivered to the laboratory immediately. (for more information see <http://www.mt.nrcs.usda.gov/technical/ecs/agronomy/nutrient/sampling.html>)

Procedure 1. Sampling while loading - *Recommended method for sampling from a stack or bedded pack.* Take at least ten samples while loading and combine to form one composite sample. Thoroughly mix the composite sample and take an approximately one pound sub sample using a one-gallon plastic bag. *Sampling directly from a stack or bedded pack is not recommended.*

Procedure 2. Sampling daily haul - Fill a five-gallon bucket under the barn cleaner 4-5 times while loading a spreader. Thoroughly mix the composite sample together and take a one-pound sub sample using a one-gallon plastic bag. Repeat sampling 2-3 times over a period of time and test separately to determine variability.

Sample Identification and Delivery

Identify the sample container with information regarding the farm, animal species and date. This information will also be included on the sample information.

Manure samples will be frozen until shipped or delivered to a laboratory. Ship early in the week (Mon.-Wed.) and avoid holidays and weekends.

2.3. Normal Mortality Management

To decrease non-point source pollution of surface and ground water resources, reduce the impact of odors that result from improperly handled animal mortality, and decrease the likelihood of the spread of disease or other pathogens, approved handling and utilization methods shall be implemented in the handling of normal mortality losses.

Animal mortalities must be handled to prevent the discharge of pollutants to state waters. Animal mortalities will be managed to ensure that they are not disposed of in a liquid manure, storm water, process waste water storage or treatment system, or that is not specifically designed to treat animal mortalities.

The handling of horse mortality is under the jurisdiction of the New Mexico Racing Commission. In the event of the death of an animal, a request for a postmortem examination shall be filed with the official veterinarian by the owner's or trainer's veterinarian within one hour of the death. Upon completion of the postmortem examination, dead animals will be hauled away by a licensed service to a licensed landfill within 3 hours of animal mortality.

2.4. Wastewater Handling and Storage

As shown on the Structural Control Map, the facility provides animal wash racks in the stable areas. The process water from these operations is collected in surface drains and flows to the treatment structure and pumping station. The treatment structure removes sediments and floatables from the wastewater. The process wastewater is transferred by the pumping station to the municipal sanitary sewer. The system is equipped with a bypass that allows for the flow to be diverted to the evaporation pond during precipitation events. Solids are removed and placed in a nearby covered storage.

2.5. Clean Water Handling and Storage

As shown on the Structural Control Map, the storm water runoff from the area adjacent to the facility is diverted through storm drains and curbed street flow to prohibit the entry of the water onto the CAFO area. Clean water falling within the boundaries of the CAFO is diverted with surface control measures to an evaporative retention pond. The runoff retention pond has an estimated storage capacity of 6.6 acre feet. The two month storage requirement is 3.9 acre feet.

2.6. Chemical Handling

The facility does not utilize any chemicals in relation to animal operations in the CAFO area. However, the following measures have been implemented by the facility to prevent chemicals and other contaminants from contaminating process waste water, litter, manure or storm water storage and treatment systems.

Chemical storage areas are self-contained with no drains or other pathways that will allow spilled chemicals to exit the storage area.

Chemical storage areas are covered to prevent chemical contact with rain or snow.

Emergency procedures and equipment are in place to contain and clean up chemical spills.

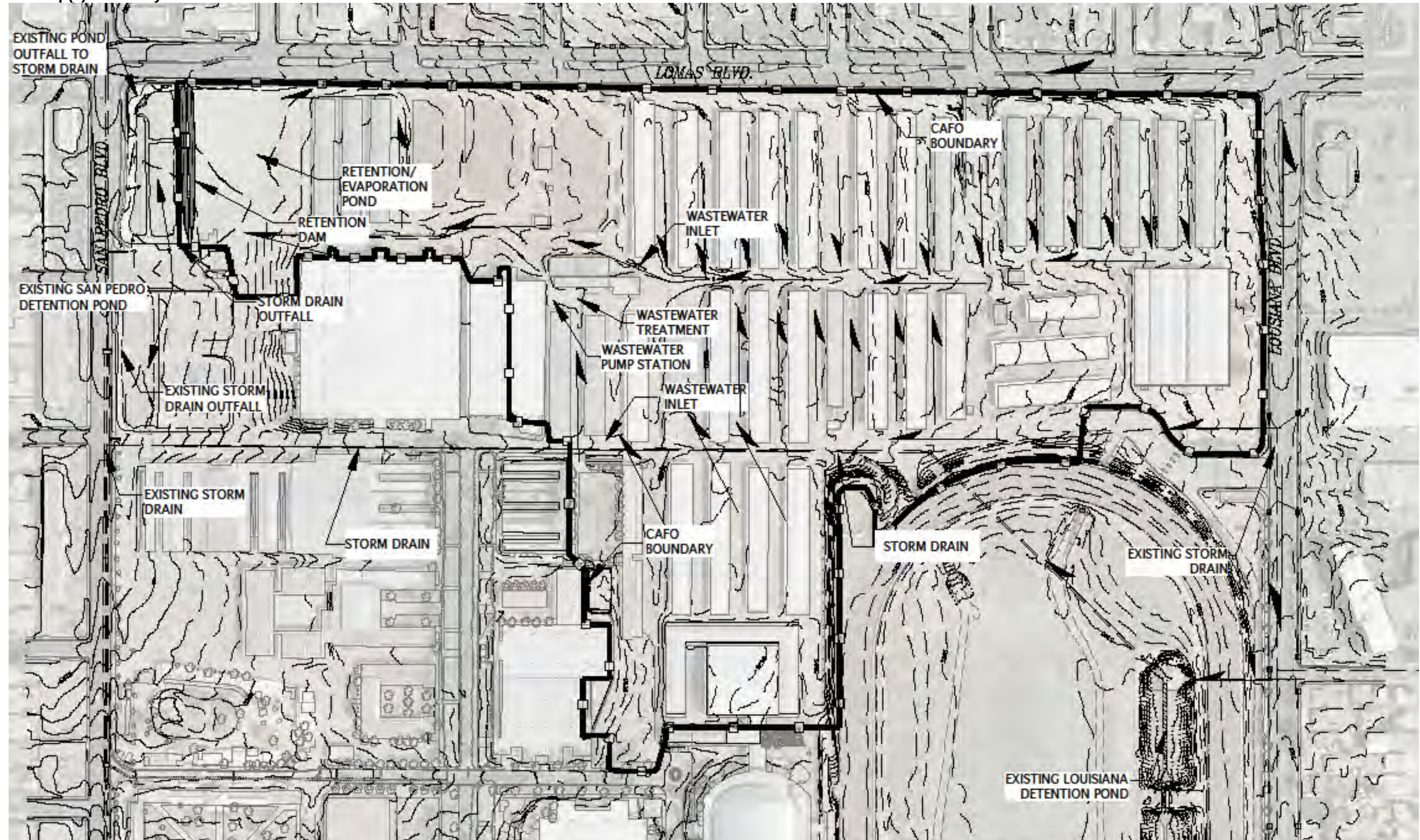
Chemical handling and equipment wash areas are designed and constructed to prevent contamination of surface waters and waste water and storm water storage and treatment systems.

All chemicals are custom applied and no chemicals are stored at the operation. Equipment wash areas are designed and constructed to prevent contamination of surface waters and waste water and storm water storage and treatment systems.

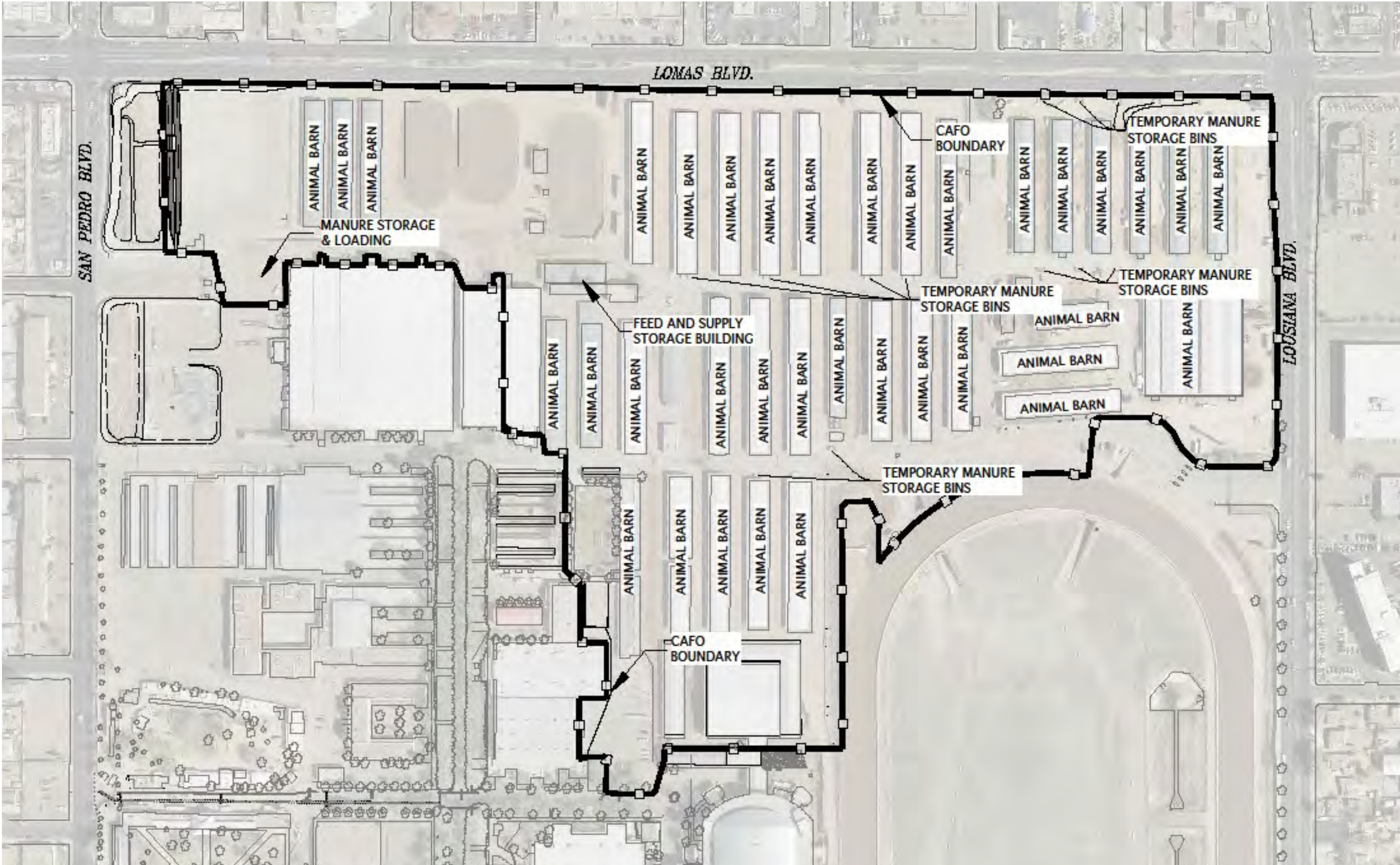
2.7. Material Storage

The raw material storage (feed and supplies) are contained within the storage area depicted on the Animal Confinement and Material Storage Map.

2.8. Map(s) of Facility



Surface Water and Structural Control Map



Animal Confinement and Material Storage Map

Section 3. Safety and Security

3.1. Emergency Response Plan

Emergency Contacts

Department / Agency	Phone Number
Ambulance/Fire/Police/Sheriff	911
New Mexico Environment Department http://www.nmenv.state.nm.us/gwb/low.htm	505-827-9329
EPA Emergency Spill Hotline http://www.epa.gov/epahome/violations.htm	800-424-8802.

1. **Stop the release of wastes.** Depending on the situation, this may or may not be possible. The possible responses to several problems are listed below:

Lagoon or slurry basin overflow, (When Lagoon has exceeded the temporary storage level) - possible solutions are:

- add soil to berm to increase elevation of dam
- stop all additional flow to the structure (waters, flushing system, etc.)
- call a pumping contractor
- make sure no surface water is entering storage structure

2. **Assess the extent of the spill** and note any obvious damages.

- *Did the waste reach any surface waters?*
- *Approximately how much was released and for what duration?*
- *Any damage noted, such as employee injury, fish kills, or property damage?*
- *Did the spill leave the property?*
- *Does the spill have the potential to reach surface waters?*
- *Could a future rain event cause the spill to reach surface waters?*
- *Are potable water wells in danger (either on or off the property)?*

3. Contact appropriate agencies

- EMERGENCY SERVICES
- New Mexico Environment Department, (NMED-505-827-9329)

You should include:

- your name, location telephone number
- the details of the incident from item 2 above,
- location or direction of movement of the spill,
- weather and wind conditions,
- what corrective measures have been undertaken

4. **Implement procedures** as advised by NMED and technical assistance agencies to rectify the damage, repair the system, and reassess the waste management plan to keep problems with release of wastes from happening again.

The emergency response plan includes provisions for emergency transfer of waste from all waste storage structures in the system. This may include emergency pumping (to prevent overtopping of a storage structure)

The emergency response plan will be available and understood by all employees at the facility. The main points of the plan (order of action) along with the phone numbers should be posted by all telephones at the site. A copy should also be available in remote locations or vehicles if the land application sites are not close by the facility office. It is the responsibility of the owner or manager of the facility that all employees understand what circumstances constitute an imminent danger to the environment or health and safety of workers and neighbors. The employees should be able to respond to such emergencies and notify the appropriate agencies of conditions at the facility.

Safety Precautions

Dangerous Gases

Dangerous situations can be associated with five main gases that are produced in livestock and poultry buildings and manure storage structures. These gases are listed in Table 1 along with some of their characteristics. All of these are colorless.

Table 1. Characteristics and Effects of Gases Produced in Livestock Buildings and Manure Storage Structures			
Gas	Odor	Density	Health Effects
Ammonia (NH ₃)	Pungent	Lighter than air	Irritation to eyes and nose. Asphyxiating at high levels.
Carbon Dioxide (CO ₂)	None	Heavier than air	Drowsiness, headache. Can be asphyxiating.
Carbon Monoxide (CO)	None	Heavier than air	Headache, chest pains, potential for problems with developing fetuses. Can be asphyxiating.
Hydrogen Sulfide (H ₂ S)	Rotten-egg smell	Heavier than air	TOXIC: causes headache, dizziness, nausea, unconsciousness, death.
Methane (CH ₄)	None	Lighter than air	Headache, asphyxiant, explosive in 5% to 15% mixture methane with air.

Ammonia (NH₃) is released from fresh manure and urine and during anaerobic decomposition. Ammonia levels tend to be high in buildings where manure is not regularly and thoroughly removed. Examples include buildings with litter, solid floors, or scrapers where manure is spread over the floor. Heated floors can increase ammonia release. Furthermore, when pH levels are higher than 8.0, ammonia is more susceptible to being released. Ammonia is very soluble in water, therefore liquid manure systems tend to release less ammonia. Building ventilation also affects ammonia levels in the air.

Carbon Dioxide, (CO₂). Death of animals in closed confinement buildings following a ventilation-equipment failure (such as a power failure) is due in part to excessive carbon dioxide. Carbon dioxide is released by unvented heaters, through livestock respiration and manure decomposition. In fact, most of the gas in bubbles coming from stored manure or lagoons is CO₂. Vigorous agitation of stored manure can also release a large amount of carbon dioxide in a short time period.

Carbon Monoxide, (CO) can cause workers to develop headaches and experience chest pain. Pregnant women should be aware of the potential health hazard this gas poses to a developing fetus. Carbon monoxide is rare in confinement buildings, but can accumulate in areas with poor ventilation such as swine farrowing rooms and nursery buildings. Evidence of carbon monoxide overexposure among livestock may first appear as aborted litters and stillbirth. The main sources of CO are heaters (LP-fired, radiant brooder, or space).

Hydrogen Sulfide (H₂S) is the most toxic gas generated from the storage liquid manure storage. Exposure to 200 ppm for an hour can cause headaches and dizziness; 500 ppm for 30 minutes can cause severe headaches, nausea, excitement, or insomnia. High concentrations of 800 to 1,000 ppm can cause immediate unconsciousness and death through respiratory paralysis unless the victim is moved to fresh air and artificial respiration is immediately applied. Be aware even the characteristic rotten-egg smell of hydrogen sulfide does not give adequate warning. The sense of smell is rapidly fatigued by the gas and high concentrations do not give

proportionately higher odor intensity. Also note that dangerous concentrations can be released by agitation of stored liquid manure. Concentrations reaching 200 to 300 ppm have been reported in buildings a few minutes after starting to pump waste from a storage pit and can be as high as 800 ppm during vigorous agitation.

Methane (CH₄) is a product of manure decomposition under strict anaerobic conditions, such as those found in an anaerobic or biogas digester. It is insoluble in water, lighter than air, and thus will accumulate in stagnant air corners in the top of enclosed pits or buildings. Methane is not toxic, but at high concentrations may cause an asphyxiating environment. Methane concentrations in confinement housing is normally well below the levels that may be explosive. However, explosions attributed to methane have occurred around manure storage pits.

First Aid for Victims of Manure-Gas Asphyxiation

1. Do not attempt to rescue a victim from a hazardous gas situation unless you are protected with a supplied air-breathing apparatus.
2. Have someone telephone for an emergency medical (rescue) squad, informing them there is a "victim of toxic gas asphyxiation."
3. If the victim is free from the immediate area of danger and there is no personal threat to life, check for breathing (with the victim on his/her back). If there is no breathing, give four quick breaths and check for a pulse.
 - *If there is a pulse*, continue mouth-to-mouth breathing every 5 seconds (12 per minute).
 - *If there is no pulse*, start CPR (cardio-pulmonary resuscitation) immediately.

Effect of Air Quality on Human Health

Health problems associated with poor air quality include coughing, phlegm production, wheezing, chest tightness, headaches, shortness of breath, eye irritation, sneezing, runny nose, and nasal congestion. Problems are usually greater the more time a worker spends in the presence of the contaminant and the greater the concentrations of airborne contaminants. In addition, some people are more susceptible than others.

Safety Precautions with Manure Storage

The following major safety points will be considered when installing and operating manure equipment, structures, or systems:

- Do not enter a manure pit unless following procedures for entering a confined space.
- When possible, construct lids for manure pits and tanks. Keep these lids in place. If an open, ground-level tank or pit is necessary, build a fence around it and post with "Keep Out" and "Danger Manure Storage" signs.
- Fence in earthen storage ponds and lagoons, and erect signs: "Danger Manure Storage." Additional precautions include a minimum of one lifesaving station equipped with a reaching pole and a ring buoy on a line.
- Don't smoke, weld, or use an open flame in confined, poorly ventilated areas where methane can accumulate. Electric motors, fixtures, and wiring near manure storage structures should be kept in good condition to prevent a spark from igniting the methane.
- Keep all guards and safety shields on all mechanical equipment such as pumps, manure spreaders, and irrigation equipment.

Vehicle Safety

Only employees with a current, valid NM driver's license should drive vehicles. In the case of specialized vehicles, only trained operators should operate the vehicles. The driver of the vehicle should inspect the vehicle prior to operating it.

- All vehicles should be operated within the legal speed limit at all times or at a lower speed where conditions warrant.
- Vehicles should not be used to transport unauthorized personnel.
- The driver should be familiar with the capacity and required clearances for safe use of the vehicle.
- Vehicle windshields and windows should be kept clear of obstructions.
- Objects or persons being transported should be located so that they do not obstruct the driver's view.

- Always know the proper operating procedures for each piece of equipment used.

Heavy Equipment Vehicles

- Make sure that the air brake system (if present) has reached operating pressure before driving the vehicle.
- Make sure everyone is clear of the vehicle before starting. Slight steering movement can occur as the engine starts causing machine movement.
- Stay clear of the engine when it is running. Work on the engine only when it is off.
- Do not move the steering wheel until everyone is clear of the vehicle.

Power Take-Off (PTO)

- Refer to the safety section of owner's manual.
- Stay clear of rear of vehicle during operation.
- Do not wear loose fitting clothing, scarves, or jewelry that could get caught in the PTO.
- Tie back long hair.

Hydraulic Systems

- Do not open pressurized lines. Hydraulic fluid can cause severe burns, eye injury, or skin irritation.
- Search for leaks in the line using a piece of cardboard or wood, not your hands.
- If anyone is injured by hydraulic fluid, administer first aid and then contact a physician.
- Stay clear of leaky hydraulic lines.

Electrical Safety

All employees must lock-out/tag-out any piece of equipment they are working on where the unexpected energization, startup, or release of stored energy could occur. In case of electrocution, turn off power to the electrical source or use an insulated implement, such as a piece of wood, to separate the victim from the source. Do not attempt to pull a victim away from the electrical source with your bare hands.

Responsibilities of the Site Supervisor

The following will be the responsibility of the site supervisor:

- Establish and supervise an accident prevention program and a training program that is designed to improve the skills and competency of all employees in the field of occupational safety and health.
- Conduct preliminary investigations to determine the cause of any accident that results in injury. The results of this investigation should be documented for reference.
- Establish and maintain a system for maintaining records of occupational injuries and illnesses.
- Provide new employees with a safety orientation on the special hazards and precautions of any new job.
- Conduct job briefings with employees before starting any job to acquaint them with unfamiliar procedures.
- Issue necessary safety equipment and manuals.
- Conduct periodic group safety meetings with all employees.

The Safety Program will include:

- procedures for reporting injuries;
- procedures for reporting unsafe conditions or practices;
- use and care of personal protective equipment;
- proper actions to be taken in the event of emergencies;
- identification of hazardous gases, chemicals, or materials; and
- instructions on safe use of hazardous gases, chemicals, or materials and emergency procedures following exposure.

First Aid Training

There will be a person available at all times with first aid training in:

- bleeding control and bandaging
- artificial respiration, including mouth-to-mouth resuscitation
- poisons
- shock, unconsciousness, stroke
- burns
- sunstroke, heat exhaustion
- frostbite, hypothermia
- strains, sprains, hernia
- fractures, dislocations
- bites, stings
- transportation of the injured
- specific health hazards likely to be encountered by co-workers

There will be adequate, readily available first aid kits and supplies on site. Emergency telephone numbers must be posted by telephones.

Eyewash

Suitable facilities for quick drenching or flushing of the eyes and body should be provided in areas where the eyes or body of any person may be exposed to injurious chemicals and materials.

Responsibilities of the Employer (Safe Place Standards)

The following are the responsibility of the *employer*:

The employer will furnish to each of his employees a workplace free from recognized hazards that may cause serious injury or death.

- The employer will furnish and use safety devices and practices that are reasonably adequate to render the employee workplace safe. The employer should do everything reasonably necessary to protect the life and safety of employees.
- Employer will not require an employee to be in any workplace that is not safe.

Responsibilities of the Employee

The following are the responsibility of the *employee*:

- Each employee should keep themselves informed of the contents of the appropriate sections of this manual and any other safety manuals provided by the employer and apply it to their work.
- Each employee should perform their duties so as to provide safety to themselves and other employees.
- An employee should request instruction from the site supervisor if there is a question as to the safe performance of an assigned task.
- Each employee should wear clothing that is suitable for the job performed.
- Each employee is responsible to report to the site supervisor any unsafe condition, acts, or hazards.
- Each employee should wear appropriate personal protective equipment.

Personal Protective Equipment (PPE)

Employees will use the appropriate personal protective equipment, or protective devices, provided for their work. Before starting work, these items should be inspected by the employee to ensure that they are in safe operating condition. These items include, but are not limited to:

- Hard hats should be worn when appropriate.
- Hearing protection should be used, as needed, to reduce noise levels when working around generators and heavy equipment.
- Eye protection should be worn when operating shop tools, and when working around chemicals.
- Safety belts/seat belts should be worn at all times in vehicles.
- Approved welding goggles or helmets and gloves should be worn while welding, cutting, or both. Fasten clothing around the neck, wrists, and ankles.

Lifting and Carrying

Everyone should observe the following guidelines to avoid possible injury when lifting and carrying objects:

- Set your feet far enough apart to provide good balance and stability (approximately the width of your shoulders).
- Get as close to the load as practical, bending your legs at the knees, and bending at the hips to keep your back as straight as possible.
- Straighten your legs to lift the object, and at the same time bring your back to a vertical position.
- When lifting an object with another person, be sure that both individuals lift at the same time and let the load down together.
- Do not carry loads above people. Do not hoist, lower, or move any person with a crane by allowing them to stand on the hook, or by any non-approved method.
- Do not stand under a suspended load or boom unless the nature of the work requires it.

Personal Hygiene

Wastewater contains pathogens (disease-causing organisms). Hence, good personal hygiene is very important!

- Keep your hands away from your nose, mouth, eyes, and ears to avoid ingestion of wastewater.
- Non-permeable gloves should be worn when handling any equipment covered with wastewater or residuals.
- Special care (e.g., protective, waterproof dressing) should be taken to keep any area of broken skin covered to avoid possible infection. If a worker suffers an injury which results in an open wound or laceration, they should be given a tetanus booster.
- Wash hands thoroughly with soap before smoking, eating, drinking, or after work.
- Work clothing should be changed and washed daily.
- If contact with wastewater does occur, wash the area thoroughly with water and soap. Sponge any cuts with an antiseptic solution and cover with a clean, dry gauze dressing and waterproof adhesive.

Immunization

Each facility may want to consult a physician or the local health department to determine the need for immunizations for the employees working at the site. Adult tetanus and diphtheria should be given routinely every 10 years, or at shorter intervals when injury occurs.

Working in a Confined Space

A confined space is defined as a space that has limited means of entry and exit, has an adequate size and configuration for employee entry, and is not designed for continuous worker occupancy. Under new OSHA regulations, there are certain confined spaces that require a permit for entry. A permit-required confined space is defined as a confined space that has one or more of the following characteristics:

- it contains or has the potential to contain a hazardous atmosphere
- it contains a material that has the potential for engulfing an entrant
- it has an integral configuration such that an entrant could be trapped or asphyxiated by inwardly-converging walls or by a floor which slopes downward and tapers to a smaller cross-section or
- it contains any other recognized serious safety or health hazard.

If a facility has permit-required confined spaces, to be in compliance with the new OSHA regulations, a written confined space entry program must be developed and implemented. Enclosed facilities which are used to handle wastewater or wastewater solids, such as the tanks and/or tanker trucks, would fall under the permit-required confined space regulations. Do not enter a permit-required confined space without proper training, equipment, and support personnel. (*The confined space regulations can be found in the Code of Federal Regulations 29 CFR 1910.147.*)

When working in a space that does not require a confined space permit, the following safety actions must be taken:

- Always assign a standby person to remain on the outside of the confined space. It is the standby person's responsibility to be in constant contact (visually, verbally, or both) with the workers inside the confined space as long as anyone is in the space.

- Wear ear protection, as needed. Noise within a confined space can be amplified because of the design and acoustic properties of the space.
- Use only an air-supplying respirator, such as a self-contained breathing apparatus (SCBA) or a supplied-air respirator with an auxiliary escape-only SCBA in confined spaces where there is insufficient oxygen.

Fire Prevention and Protection

Employees will be knowledgeable of the fire conditions at the site and operate accordingly. Poor site maintenance, worn or defective electrical systems, and welding and cutting may contribute to dangerous situations. The following precautions will be observed:

1. Do not smoke near equipment or fuel trailers. No open flame should be allowed near wastewater storage tanks. Combustible gases can accumulate and when vented to the surrounding area, may become explosive.
2. Do not tamper with or remove fire-fighting equipment from designated locations for purposes other than fire-fighting or rescue operations. Access to fire equipment should not be hindered. If fire extinguishers are used, they should be promptly recharged. Inspect fire extinguishers monthly to be sure they are in good operating condition.

3.2. Biosecurity Measures

Biosecurity is critical to protecting livestock and poultry operations against contagious organisms and other diseases.

Effective biosecurity requires several components including isolation, traffic control, and sanitation that aim to reduce exposure to bacteria, viruses and other organisms that may infect animals with disease. Additionally, maintain a high sense of awareness for unusual occurrences of animal diseases in the community.

General Potential Signs of Foreign Animal Diseases

- Sudden, unexplained death loss
- Severe illness affecting a high percentage of animals
- Blistering around an animal's mouth, nose, teats, or hooves
- Unusual ticks or maggots
- Staggering, falling or central nervous system disorders.

Section 4. Recordkeeping and Activity Documentation

1. The number and type of animals.
2. Amount of total manure, litter and process wastewater generated by the facility.
3. Amount of total manure, litter and process wastewater transferred to others by the facility.
4. Results of all samples of manure, litter or process wastewater.
5. Inspection reports of all storm water diversion devices and containment structures.
6. Design documentation for all manure, litter and wastewater storage structures.

Section 5. Operation and Maintenance

1. Manure and Wastewater Handling Summary

EXPO New Mexico will follow safety and emergency action plan and operation and maintenance included in this CNMP, in addition to the following general items.

a. Manure

- Manure produced at the facility will be removed from the stalls at least daily and hauled offsite by a contract manure hauler. Records of manure removal will be maintained in the CNMP.
- Manure will be sampled annually to determine the nutrient content of the material. This information will remain on-site and be provided to the manure hauler.

- Solids will be removed from the area and handled in a similar manner. Sludge will be removed from the retention pond when the volume of sludge reduces the 60 day storage volume in the retention pond. Sludge that is removed will be stockpiled until it can be utilized in one of the ways described above.
- Rainfall runoff associated with the manure stockpile will be contained.

b. Wastewater

- The wastewater storage system at the facility will consist of the utilization of a pond. A permanent marker will be installed with a mark identifying the required 25-year, 24-hour storm volume in the pond. The level of the pond should be recorded on a weekly basis, after each precipitation.
- The wastewater disposal system consists of evaporation. Wastewater is allowed to evaporate within the pond.
- All lagoons and berms shall be inspected on a monthly basis to identify signs of erosion, foreign debris, or root intrusion. Operators shall immediately remove any foreign debris in or adjacent to the lagoon, and remove deep-rooted plants from the liner and/or berms.
- Repairs to address erosion, cracking or settlement shall be made immediately.

c. Inspections and maintenance over 20-year design life

- Do not dispose of dead animals, greases, syringes or other wastes in the facility
- A thorough inspection of clay or geosynthetic liners, and concrete sumps, pits, walls, ramps and floors for separations and/or cracks, which would indicate potential failure. This should be done each time the pond is emptied. Repairs should be made immediately.
- All pipes, pumps, valves, gates, should be inspected a minimum of twice a year. Inspect for functional and structural soundness. Repair as needed.
- Check frequently for burrowing animals. When found, remove the burrowing animals, replace embankment materials.
- The livestock facility, including the embankments, should be fenced. All fences and gates should be inspected at least twice a year. Damaged fences and gates should be repaired or replaced.
- Maintain appropriate warning signs.
- Safety stations should be inspected at least twice a year. Safety items should be replaced as necessary.
- Immediately repair any vandalism, vehicular or livestock damage to any earth fills, spillways, outlets or other appurtenances.
- Immediately remove any foreign debris in or adjacent to the waste storage facility.

2. Pond Solids Removal and Handling

- Solids shall be removed when encroaching on the volume reserved for the 25-year, 24-hour storm event and the 60 day storage volume. At no time shall emissions from cleaning activities create a nuisance.
- Storage of pond solids shall not cause a discharge of pollutants to waters in the state, cause a water quality violation in waters in the state or cause a nuisance condition. At all times, sufficient volume shall maintained within the control facility to accommodate manure, other solids, wastewaters and contaminated storm waters (rain water runoff) from the concentrated animal feeding areas.

3. Manure Handling

- At all times, sufficient volume will be maintained within the control facility to accommodate manure, other solids, wastewaters and contaminated storm waters from the concentrated animal feeding areas.
- Storage and/or surface disposal of manure in the 100-year flood plain, near water courses or recharge zone/feature is prohibited unless protected by adequate berms or other structures; berms or other structures must be certified by a licensed professional engineer to be adequate and properly constructed.
- When manure is stockpiled, it will be stored in a well drained area with no ponding of water, and the top and sides of stockpiles will be adequately sloped to ensure proper drainage. Stockpiles should be located away from watercourses, above the 100-year flood plain, at least 150 feet downstream of wells. Runoff from manure storage pile must be retained on-site. It is recommended that manure be stored on an elevated berm or roofed area, and on an impervious layer such as a concrete or lined pad.

4. Dust and Odor Control

Practices follow to address odor and dust concerns:

- Clean stalls frequently to remove manure.
- Manure and litter storage will be covered.
- Use windbreaks to reduce dust and odor problems.
- Communicate with neighbors to ensure they understand the dairy operation and are not harboring complaints.

5. Employee Training

Employees responsible for permit compliance, material handling, operation and maintenance of the facility shall receive regular training on proper and required procedures. Each employee will receive training appropriate to their position at time of hire. The frequency and topics of subsequent training will be appropriate for the different levels of personnel. The training will be conducted by professionals from the facility management, government and private agencies. The following topics and frequencies represent the employee training:

Record Keeping - Annual

- Review of compliance and reporting requirements.

Housekeeping – Semi Annual

- Potential Pollutant Material Handling Material handling.
- Manure and litter storage
- Dust and odor reduction

Operation, Maintenance & Safety – Semi Annual

- Proper Operation and Maintenance of Control Facilities
- Equipment Operations
- Accident prevention
- Emergency Action Plan Review
- OSHA methods on safe use of hazardous gases, chemicals, or materials and emergency procedures following exposure.

Appendix 6

EXPO Wastewater Permit



Susana Martinez
Governor

July 12, 2013

Albuquerque Bernalillo County Water Authority
PO Box 568
4201 2nd St. SW
Albuquerque NM 87105
Attn: Mr. Mark Kelly, P.E., Industrial Waste Engineer

RE: Wastewater Discharge Permit Semi-Annual Report
Name: Expo-New Mexico
Permit #: 2253A
Reporting Period: January 1, 2013 through June 30, 2013

Dear Mr. Kelly:

Enclosed is the Semi-Annual Report with all applicable endorsements per the above Waste-Water Discharge Permit; i.e. 1) Summary of Semi-Annual Reporting Requirements and 2) Endorsements FMZ, GS, HZ, RC, and WM. To clarify any information submitted, please contact myself, or Ron Hensley, P.E., of Hensley Engineering Group at (505) 514-0995 or cell (505) 410-1622.

Please feel free to call should you have need of anything further in this matter.

Very truly yours,

A handwritten signature in black ink, appearing to read 'John Jaramillo', is written over a horizontal line.

John Jaramillo
Deputy Agency Director
Expo-NM

SUMMARY OF SEMI-ANNUAL REPORTING REQUIREMENTS

Permit: Albuquerque / Bernalillo Wastewater Permit # 2253
Permittee: Expo-NM
Address: 300 San Pedro NE, Albuquerque NM 87108

Reporting Requirements**Code Endorsement**

FM7 AVERAGE DAILY AND PEAK DAILY EFFLUENT FLOW MONITORING

GS GREASE, SAND AND OIL

HZ HAZARDOUS SUBSTANCES & PRETREATMENT WASTE

RC REPORT CERTIFICATION

WM WASTE MINIMIZATION



Albuquerque Bernalillo County Water Utility Authority

ENDORSEMENT FM7

AVERAGE AND DAILY EFFLUENT FLOW MONITORING

COMPLIANCE REQUIREMENT: The Permittee must meet the requirements of 40 CFR 403.12(e)(1), and shall submit to the Pretreatment Program, along with the semi-annual report during the months of January and July, a report which shall include a record of measured or estimated average and maximum daily flows of the effluent from this facility for the reporting period. The report shall also include a copy of this endorsement, with the relevant information filled in below.

The Pretreatment Program may allow for verifiable estimates of these flows where justified by cost or feasibility considerations.

MONITORING REQUIREMENT: Average and maximum daily flows of all regulated process streams and, as necessary, other effluent streams from the facility.

REPORTING REQUIREMENT: The Permittee shall submit information showing the measured average daily and maximum daily flow, in gallons per day to the Pretreatment Program from each of the following:

PERMITEE'S FM7 DATA

Permittee's Effluent Flow Monitoring System ("EFMS") became active June 13, 2013, accordingly, only data from June 13, 2013 through June 30th, 2013 is available for this reporting period. Permittee's Effluent Flow Monitoring System is equipped with the state-of-the-art GF Signet (8550-3) Flow Transmitter, measuring both GPM (Gallons per minute) as well as daily and cumulative flows measurements. The successful design, installation, testing and calibration of the Expo-NM EFMS and flow transmitter was accomplished by collaborative efforts of John Jaramillo, Expo-NM Deputy Director, Ron Hensley, P.E. of the Hensley Engineering Group and Tony Yardman, Licensed, Professional Electrician. The Expo-NM EFMS is operating as designed for the regulation of process streams and other streams as necessary to allow use of Combined Wastestream Formula. The following is the recorded flow data for the above semi-annual reporting period. **Average Daily Flow: 114.23 Gallons per Day; Peak Monthly Flow: 1,095 Gallons Per Day; Peak Monthly Flow Occurred on: June 24, 2013**

Calibration of the Signet 8550 Flow Transistor was achieved by direct application of the manufacturer's specifications for calibration which achieves an accuracy variance of +/- 0.5% of total flow in Gallons. The Signet 8550 Flow Transistor is connected to a mechanical paddlewheel sensor (Signet P51530) which generates an open-collector (Hall Effect) pulse output that is proportional to flow rate. The sensor is enclosed within a 2" Schedule 80 PVC Insertion Tee and is situated within the flow path direction of the effluent stream. Based on paddlewheel model number, flow transistor, pipe diameter and water matrix, a Total K-Factor of 36.3200 pulses/gallon was entered into the 8550 Flow Transistor program in order to achieve



Albuquerque Bernalillo County Water Utility Authority

ENDORSEMENT GS

GREASE TRAPS, SAND TRAPS AND OIL/WATER SEPARATORS

COMPLIANCE REQUIREMENT: Facilities with grease traps, sand traps or oil/water separators shall periodically inspect the operation of these devices and remove accumulated grease, sand, oil or grit as required to prevent discharge of such pollutants (or materials) to the sanitary sewer.

MONITORING REQUIREMENT: The Permittee shall perform periodic inspections, as required, to assure timely removal of accumulated materials.

REPORTING REQUIREMENT: The Permittee shall document in each semi-annual report the method used to dispose of materials removed from grease traps, sand traps or oil/water separators. This must include a narrative statement, along with copies of the manifest forms for each material removed from the Permittee's facility during the reporting period. If no materials are removed during the reporting period, a statement of that fact must be submitted. Sample statements are provided below.

* * * *

GREASE, SAND, OIL OR GRIT SHIPPING CERTIFICATION STATEMENT – NO SHIPMENTS

I hereby certify that the permitted facility HAS active grease traps, sand traps or oil/water separators and NO shipments of accumulated grease, oil, sand or grit have occurred during this reporting period.

Facility Name:

Expo-NM

Permit No.:

2253-A

Date:

7/12/13

Signature:

[Signature]

Authorized Representative

Title:

Deputy Agency Director

* * * *

GREASE, SAND, OIL OR GRIT SHIPPING CERTIFICATION STATEMENT - SHIPMENTS

I hereby certify that the permitted facility HAS active grease traps, sand traps or oil/water separators and shipments of accumulated grease, oil, sand or grit HAVE occurred during this reporting period. Copies of manifests are attached.

Facility Name:

Permit No.:

Date:

Signature:

Authorized Representative

Title:



Albuquerque Bernalillo County Water Utility Authority

ENDORSEMENT HZ

HAZARDOUS SUBSTANCES AND PRETREATMENT WASTES

COMPLIANCE REQUIREMENT: The permittee shall insure that: 1) all pretreatment processes are handled in accordance with applicable Resource Conservation and Recovery Act (RCRA) regulations, 2) no materials removed by a pretreatment process are reintroduced into the wastestreams, and, 3) hazardous substances stored on-site are not discharged to the sanitary sewer. Disposal of pretreatment wastes or hazardous substances into the sanitary sewer is strictly forbidden.

MONITORING REQUIREMENTS: None required by the Permittee.

REPORTING REQUIREMENTS: The permittee shall document in each semi-annual report, the method used to dispose of materials removed by the pretreatment process and/or hazardous substances stored on-site. This must include a narrative statement, along with copies of the Hazardous Waste Manifest forms for each RCRA waste removed and copies of any shipping manifests for other hazardous substances or pretreatment materials. If no hazardous substances or pretreatment wastes are removed during the reporting period, a statement of that fact must be submitted. Sample statements are provided.

* * * *

HAZARDOUS SUBSTANCES AND PRETREATMENT WASTES CERTIFICATION STATEMENT

I hereby certify that NO shipments of hazardous substances or pretreatment wastes have occurred during this reporting period.

Facility Name: Expo - NM
 Permit No.: # 2253-A Date: 7/12/13
 Signature: [Signature] Title: Deputy Agency Director
 US EPA ID. No. _____ (IF APPLICABLE)



Albuquerque Bernalillo County Water Utility Authority

ENDORSEMENT RC

REPORTING CERTIFICATION

COMPLIANCE REQUIREMENT: The Permittee is required to certify all materials and information submitted with semi-annual reports is accurate and complete.

MONITORING REQUIREMENT: None

REPORTING REQUIREMENT: The Permittee must complete, sign and submit the Reporting Certification (shown below) with each semi-annual report.

* * * * *

REPORTING CERTIFICATION

Facility Name: Expo - NM

Permit Number: # 2253-A

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.

(Signature)

[Signature]
Authorized Representative

7/12/13
Date



Albuquerque Bernalillo County Water Utility Authority

ENDORSEMENT WM

POLLUTION PREVENTION THROUGH SOURCE REDUCTION AND WASTE MINIMIZATION

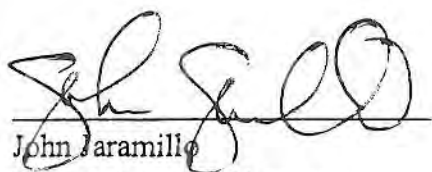
COMPLIANCE REQUIREMENT: Permittees shall endeavor, whenever feasible, to reduce or eliminate otherwise polluting substances in wastestream(s) by source reduction, waste minimization or more effective pretreatment.

MONITORING REQUIREMENT: None required by the Permittee.

REPORTING REQUIREMENTS: The Permittee shall include a narrative statement with each semi-annual report describing any source reduction, waste minimization or pretreatment efforts undertaken during the reporting period. If no such efforts are undertaken, the Permittee shall include a statement to that effect in the report.

PERMITTEE'S ENDORSEMENT WM STATEMENT

Pursuant to the above Endorsement WM of the Wastewater Discharge Permit #2253-A, Permittee, Expo-NM, affirms that no source reduction, waste minimization or pre-treatment efforts were undertaken during this reporting period (January 1, 2013 to June 30, 2013).



John Jaramillo
Deputy Agency Director
Expo-NM

Date: 7/12/13

Appendix 7

CAFO Permit Monitoring Data



CAFO REPORTING FORMS

EPA PERMIT MANUAL

WORKBOOK



EXPO NEW MEXICO CAFO ANNUAL REPORTING REQUIREMENTS

1. The annual report shall be submitted to EPA and NMED at the addresses listed below. The annual report shall be submitted on the 31st day of January.
Addresses for submitting required reports:

EPA Region 6:

Compliance Assurance and Enforcement Division
Water Enforcement Branch (6EN-W)
U.S. EPA, Region 6
1445 Ross Avenue
Dallas, TX 75202-2733

NMED:

Program Manager
Surface Water Quality Bureau
New Mexico Environment Department
P.O. Box 5469
1190 Saint Francis Drive
Santa Fe, NM 87502

2. The annual report must include the following information:
 - a. The number and type of animals, whether in open confinement or housed under roof;
 - b. Estimated amount of total manure, litter and process wastewater generated by the CAFO in the previous twelve (12) months (tons/gallons);
 - c. Estimated amount of total manure, litter and process wastewater transferred to other person by the CAFO in the previous twelve (12) months (tons/gallons);
 - d. Summary of all manure, litter and process wastewater discharges from the production area that have occurred in the previous twelve (12) months, including date, time, and approximate volume; and
 - e. A statement indicating whether the current version of the CAFO's NMP was developed or approved by a certified nutrient management planner.
 - f. Results of all samples of manure, litter or process wastewater for nitrogen and phosphorus content for manure, litter and process wastewater that were land applied.



Records Schedule of Events

SCHEDULE	FREQUENCY	FORM
Operation and Maintenance	As-Needed	Operation and Maintenance Section of CNMP
Site Inspection	Yearly	Form 1 - Annual Inspection
Status Review	Yearly	Form 2 - Annual Plan Review
Wastewater Transfer	Monthly or as required	Form 3 - Wastewater Transfer
Wastewater Analysis	Quarterly or as required	Form 4 - Wastewater Analysis and Lab Report
Storage Inspection	Weekly	Form 5 - Wastewater Storage Inspection
Manure Analysis	Yearly	Form 6 - Manure Analysis and Lab Report
Manure Transfer	Monthly or as required	Form 7 - Manure Transfer
Storage Inspection	Weekly	Form 8 - Manure Storage Inspection
Precipitation	As-Needed	Form 9 - Precipitation Log
Log of Liner Disturbance	As-Needed	Form 10 - Liner Maintenance Log
Pond Water Levels	Weekly and As-Needed	Form 11 - Pond Water Levels Log
Discharge Report	As-Needed	Form 12 - Discharge Report
Spills	As-Needed	Form 13 - Spills Log
Structural Controls Inspection	Quarterly, Weekly, Daily	Form 14 - Inspection Report (Structural)
Employee Training	Yearly	Form 15 - Employee Training Log
As-built Documentation	When completed	Submit copies to NMED / Keep on-site

OPERATION AND MAINTENANCE

1. Manure and Wastewater Handling Summary

Follow safety and emergency action plan and operation and maintenance included in the CNMP, in addition to the following general items.

a. Manure

Manure produced will be removed from the pens and hauled offsite by a custom manure hauler. Records of manure removal will be maintained in the CNMP. Manure will be sampled annually to determine the nutrient content of the material. This information will remain on-site and be provided to the manure hauler.

Sludge will be removed from the retention pond when the volume of sludge reduces the 60 day storage volume in the retention pond. Sludge that is removed will be stockpiled until it can be utilized in one of the ways described above. Rainfall runoff associated with the manure stockpile will be contained.

b. Wastewater

The wastewater storage system will consist of the utilization of a pond. A permanent marker will be installed with a mark identifying the required 25-year, 24-hour storm volume in the pond. The level of the pond should be recorded on a weekly basis, after each precipitation event and before and after pumping occurs.

The wastewater disposal system consists of a combination of evaporation and irrigation. Wastewater is allowed to evaporate within the pond. Annual wastewater and soil sampling will be used to determine the appropriate application rates for each field for the crops grown. Records will include the date of application, amount of wastewater applied, soil nutrient data, and wastewater nutrient data from annual sampling. Wastewater will not be land applied when the ground is frozen or saturated.

All lagoons and berms shall be inspected on a monthly basis to identify signs of erosion, foreign debris, or root intrusion. Operators shall immediately remove any foreign debris in or adjacent to the lagoon, and remove deep-rooted plants from the liner and/or berms. Repairs to address erosion, cracking or settlement shall be made immediately, and operators shall submit a Corrective Action Report to the GWQB which describes actions taken to address the problems. It is recommended that the lagoon be emptied by November 1, of each year to ensure adequate storage capacity through winter months.

Inspections and maintenance are required to obtain intended function of the waste storage facility. Items to inspect and maintain during the 20-year design life of the waste storage facility are:

- Do not dispose of dead animals, greases, syringes, or other wastes in the facility.
- A thorough inspection of clay or geosynthetic liners, and concrete sumps, pits, walls, ramps and floors for separations and/or cracks, which would indicate potential failure. This should be done each time the pond is emptied. Repairs should be made immediately.
- All pipes, pumps, valves, gates, should be inspected a minimum of twice a year. Inspect for functional and structural soundness. Repair as needed.
- Check frequently for burrowing animals. When found, remove the burrowing animals, replace embankment materials and reseed.
- The livestock facility, including the embankments, should be fenced. All fences and gates should be inspected at least twice a year. Damaged fences and gates should be repaired or replaced.
- Maintain appropriate warning signs.
- Safety stations should be inspected at least twice a year. Safety items should be replaced as necessary.
- Immediately repair any vandalism, vehicular or livestock damage to any earthfills, spillways, outlets or other appurtenances.
- Immediately remove any foreign debris in or adjacent to the waste storage facility.

2. Pond Solids Removal and Handling

- a. Solids shall be removed when encroaching on the volume reserved for the 25-year, 24-hour storm event and the 60 day storage volume. At no time shall emissions from cleaning activities create a nuisance.
- b. Storage and land application of pond solids shall not cause a discharge of pollutants to waters in the state, cause a water quality violation in waters in the state or cause a nuisance condition. At all times, sufficient volume shall be maintained within the control facility to accommodate manure, other solids, wastewaters and contaminated storm waters (rain water runoff) from the concentrated animal feeding areas.

3. Manure Handling

- a. At all times, sufficient volume will be maintained within the control facility to accommodate manure, other solids, wastewaters and contaminated storm waters from the concentrated animal feeding areas.
- b. Storage and/or surface disposal of manure in the 100-year flood plain, near water courses or recharge zone/feature is prohibited unless protected by adequate berms or other structures; berms or other structures must be certified by a licensed professional engineer to be adequate and properly constructed.
- c. When manure is stockpiled, it will be stored in a well drained area with no ponding of water, and the top and sides of stockpiles will be adequately sloped to ensure proper drainage. Stockpiles should be located away from watercourses, above the 100-year flood plain, at least 150 feet downstream of wells. Runoff from manure storage pile must be retained on-site. It is recommended that manure be stored on an elevated berm or roofed area, and on an impervious layer such as a concrete or lined pad.

4. Dust and Odor Control

- a. Other resource concerns, such as fly control, odor, dust and other soil, water, animal, plant, air or human, must also be addressed in the CNMP as part of a Resource Management System. The NRCS Field Office Technical Guide, Section IV, Conservation Practices (<http://www.nm.usda.gov>), provides conservation practices for addressing all of these concerns. Several practices follow to address odor and dust concerns:
 - Scrape pens frequently to remove manure.
 - Incorporate manure after spreading.
 - Use windbreaks to reduce dust and odor problems.

Communicate with neighbors to ensure they understand the operation and are not harboring complaints.

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3. Manure Handling and Land Application

- a. At all times, sufficient volume will be maintained within the control facility to accommodate manure, other solids, wastewaters and contaminated storm waters from the concentrated animal feeding areas.
- b. Storage and/or surface disposal of manure in the 100-year flood plain, near water courses or recharge zone/feature is prohibited unless protected by adequate berms or other structures; berms or other structures must be certified by a licensed professional engineer to be adequate and properly constructed.
- c. When manure is stockpiled, it will be stored in a well drained area with no ponding of water, and the top and sides of stockpiles will be adequately sloped to ensure proper drainage. Stockpiles should be located away from watercourses, above the 100-year flood plain, at least 150 feet downstream of wells. Runoff from manure storage pile must be retained on-site. It is recommended that manure be stored on an elevated berm or roofed area, and on an impervious layer such as a concrete or lined pad.

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EXPO NEW MEXICO CAFO ANNUAL REPORTING REQUIREMENTS

1. The annual report shall be submitted to EPA and NMED at the addresses listed below.
The annual report shall be submitted on the 31st day of January.
Addresses for submitting required reports:

EPA Region 6:

Compliance Assurance and Enforcement Division
Water Enforcement Branch (6EN-W)
U.S. EPA, Region 6
1445 Ross Avenue
Dallas, TX 75202-2733

NMED:

Program Manager
Surface Water Quality Bureau
New Mexico Environment Department
P.O. Box 5469
1190 Saint Francis Drive
Santa Fe, NM 87502

2. The annual report must include the following information:
 - a. The number and type of animals, whether in open confinement or housed under roof;
 - b. Estimated amount of total manure, litter and process wastewater generated by the CAFO in the previous twelve (12) months (tons/gallons);
 - c. Estimated amount of total manure, litter and process wastewater transferred to other person by the CAFO in the previous twelve (12) months (tons/gallons);
 - d. Summary of all manure, litter and process wastewater discharges from the production area that have occurred in the previous twelve (12) months, including date, time, and approximate volume; and
 - e. A statement indicating whether the current version of the CAFO's NMP was developed or approved by a certified nutrient management planner.
 - f. Results of all samples of manure, litter or process wastewater for nitrogen and phosphorus content for manure, litter and process wastewater that were land applied.

Document Title: CAFO Annual Reporting Requirements
Date: 10/1/2010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

JUL 16 2013

CERTIFIED MAIL: RETURN RECEIPT REQUESTED (7010 2780 0002 4353 3463)

REPLY TO: 6WQ-NP

Mr. Dan Mourning
EXPO New Mexico
P.O. Box 8546
Albuquerque, NM 87198

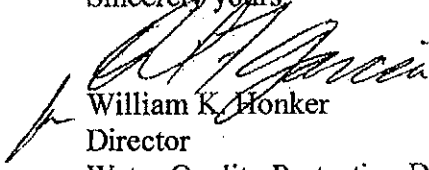
Re: NPDES Permit No. NMG010068 -- EXPO New Mexico

Dear Mr. Mourning:

Coverage under the National Pollution Discharge Elimination System (NPDES) General Permit for Discharges from Concentrated Animal Feeding Operations (CAFOs) in New Mexico (NMG010000) has been authorized for your facility. The notice of intent, nutrient management plan (NMP), and draft terms of the NMP to be incorporated into the permit for your facility received no comments. The enclosed terms of the NMP are hereby incorporated as site-specific terms and conditions of the general permit. Coverage under this permit begins on the date of this notice. An electronic copy of the permit and additional guidance materials can be viewed and downloaded at <http://www.epa.gov/region6/water/npdes/cafo/index.htm>.

Should you have any questions concerning the compliance with this permit, please feel free to contact the Enforcement Branch at the above address or telephone (214) 665-6468; if however, you should have questions with regards to this permit authorization, please contact the Permits Branch at the above address or telephone 214-665-7247.

Sincerely yours


William K. Honker
Director

Water Quality Protection Division (6WQ)

Enclosure

cc: New Mexico Environment Department

APPENDIX E: TERMS OF THE NUTRIENT MANAGEMENT PLAN INCORPORATED INTO THE PERMIT

I. PERMITTEE

In accordance with Parts III.2.b and f of NPDES Permit No. NMG010000, the following terms of the nutrient management plan (NMP) are hereby incorporated as site specific terms and conditions of the general permit for:

NMG010068
EXPO New Mexico
P. O. Box 8546
Albuquerque, NM 87198

For the purposes of this permit, "NMP" refers to the latest version of the NMP approved by EPA. Any changes to the NMP must be submitted to EPA in accordance with Part III.A.6 of the permit.

II. SITE SPECIFIC PERMIT TERMS

A. Adequate Storage

Manure shall be stockpiled within the drainage areas of the retention control structures (RCS) or in a bermed area outside of the RCS drainage areas that prevents stormwater run-off and/or run-on.

Table 1

STORAGE STRUCTURE	STORAGE PERIOD (days)	TOTAL CAPACITY (ac- ft)
Evaporation Pond	365	6.6

B. Land Application

Land application of manure, litter, or process wastewater to land under the control of the permittee is not authorized under NMG010068.

C. Site Specific Conservation Practices

Not applicable. See Part B. above.

D. Protocols for appropriate testing of manure, litter, and process wastewater

Manure shall be sampled in accordance with the "2.2 Sampling, Calibration and Other Statements: Sampling Manure" section of the NMP.

E. Mortality Management

All mortalities shall be disposed of in accordance with the "2.3 Normal Mortality Management" section of the NMP.

F. Clean Water Diversion

Since this facility is within city limits, storm drain and curbed street flow will be used as perimeter controls to prevent clean water runoff from adjacent land from entering the evaporation retention pond.



FORM 3 - Wastewater Transfer Record

Facility Name: **EXPO New Mexico**

NPDES Permit No. NMG01000

Instructions: Use this form to keep track of all manure and process wastewater generated at your CAFO facility that you transfer to other persons (i.e. for use or disposal not under the control of your CAFO).

Date of Transfer	Name of Recipient	Location	Amount Transferred
			Wastewater (gallons)
6/24/13	AAA Sewer Service	2855 2 nd St. NW Albuquerque NM 87102	1095
7/22/13	AAA Sewer Service	2855 2nd St. NW Albuquerque NM 87102	3800
8/23/13	SW Sewer Service	956 Curfman SW Los Lunas NM 87031	1435
9/3/13	SW Sewer Service	956 Curfman SW Los Lunas NM 87031	1675
9/12/13	SW Sewer Service	956 Curfman SW Los Lunas NM 87031	1914
10/3/13	SW Sewer Service	956 Curfman SW Los Lunas NM 87031	1500
10/31/13	SW Sewer Service	956 Curfman SW Los Lunas NM 87031	1795
6/7/13	Alb/Bern Water Authority	City / County Sewer - Reclamation Plant	-0-
6/14/13	Alb/Bern Water Authority	City / County Sewer - Reclamation Plant	-0-
6/21/13	Alb/Bern Water Authority	City / County Sewer - Reclamation Plant	-0-
6/28/13	Alb/Bern Water Authority	City / County Sewer - Reclamation Plant	1,688
7/5/13	Alb/Bern Water Authority	City / County Sewer - Reclamation Plant	235
7/12/13	Alb/Bern Water Authority	City / County Sewer - Reclamation Plant	207
7/19/13	Alb/Bern Water Authority	City / County Sewer - Reclamation Plant	-0-
7/26/13	Alb/Bern Water Authority	City / County Sewer - Reclamation Plant	1,608
8/2/13	Alb/Bern Water Authority	City / County Sewer - Reclamation Plant	-0-
8/9/13	Alb/Bern Water Authority	City / County Sewer - Reclamation Plant	2,870
8/16/13	Alb/Bern Water Authority	City / County Sewer - Reclamation Plant	3,830
8/23/13	Alb/Bern Water Authority	City / County Sewer - Reclamation Plant	-0-
8/30/13	Alb/Bern Water Authority	City / County Sewer - Reclamation Plant	2,670

[illegible]



FORM 4 - Wastewater Analysis

A wastewater sample will be collected and analyzed quarterly or as required. Results from the soil, manure and wastewater samples will be used to determine the application rate of wastewater on the wastewater application areas. Refer to this section for sampling and testing procedures. Make copy of blank log prior to use.

[illegible]

Analytical Report

Lab Order 1307A12

Date Reported: 8/6/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: The Group

Client Sample ID: Pond

Project: EXPO NM

Collection Date: 7/23/2013 10:20:00 AM

Lab ID: 1307A12-001

Matrix: AQUEOUS

Received Date: 7/23/2013 10:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	7/23/2013 6:47:26 PM	R12143
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	7/23/2013 6:47:26 PM	R12143
SM5210B: BOD							Analyst: ECH
Biochemical Oxygen Demand	9.6	2.0		mg/L	1	7/28/2013 2:49:00 PM	8515
SM 9223B FECAL INDICATOR: E. COLI MPN							Analyst: ECH
E. Coli	2419.6	1.0		CFU/100ml	1	7/24/2013 1:40:00 PM	8521
SM 4500 NH3: AMMONIA							Analyst: TMG
Nitrogen, Ammonia	ND	1.0		mg/L	1	8/5/2013 8:00:00 AM	R12403
TOTAL NITROGEN							Analyst: JRR
Nitrogen, Total	2.8	1.0		mg/L	1	8/6/2013 10:08:00 AM	R12427
SM4500-H+B: PH							Analyst: JML
pH	9.16	1.68	*H	pH units	1	7/23/2013 4:52:29 PM	R12146
SM 4500 NORG C: TKN							Analyst: TMG
Nitrogen, Kjeldahl, Total	2.8	1.0		mg/L	1	8/5/2013 10:35:00 AM	8697
SM 2540D: TSS							Analyst: KS
Suspended Solids	45	4.0		mg/L	1	7/24/2013 5:34:00 PM	8544

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Analytical Report

Lab Order 1307D74

Date Reported: 8/13/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: The Group

Client Sample ID: Pond

Project: EXPO New Mexico

Collection Date: 7/30/2013 11:00:00 AM

Lab ID: 1307D74-001

Matrix: AQUEOUS

Received Date: 7/30/2013 3:57:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Nitrogen, Nitrite (As N)	0.50	0.50		mg/L	5	7/30/2013 10:53:57 PM	R12309
Nitrogen, Nitrate (As N)	1.5	0.50		mg/L	5	7/30/2013 10:53:57 PM	R12309
SM5210B: BOD							Analyst: ECH
Biochemical Oxygen Demand	6.7	2.0		mg/L	1	8/5/2013 10:15:00 AM	8632
SM 9223B FECAL INDICATOR: E. COLI MPN							Analyst: SMS
E. Coli	15531	10		CFU/100ml	10	7/31/2013 5:08:00 PM	8638
SM 4500 NH3: AMMONIA							Analyst: TMG
Nitrogen, Ammonia	1.1	1.0		mg/L	1	8/12/2013 9:18:00 AM	R12553
TOTAL NITROGEN							Analyst: JRR
Nitrogen, Total	6.8	1.0		mg/L	1	8/13/2013 2:13:00 PM	R12588
SM4500-H+B: PH							Analyst: JML
pH	7.88	1.68	H	pH units	1	7/30/2013 6:54:37 PM	R12304
SM 4500 NORG C: TKN							Analyst: TMG
Nitrogen, Kjeldahl, Total	5.3	1.0		mg/L	1	8/12/2013 2:43:00 PM	8795
SM 2540D: TSS							Analyst: KS
Suspended Solids	440	20		mg/L	1	8/1/2013 7:24:00 AM	8648

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Analytical Report

Lab Order 1308452

Date Reported: 8/19/2013

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** The Group**Client Sample ID:** Pond**Project:** EXPO New Mexico**Collection Date:** 8/12/2013 1:20:00 PM**Lab ID:** 1308452-001**Matrix:** AQUEOUS**Received Date:** 8/12/2013 2:10:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM 9223B FECAL INDICATOR: E. COLI MPN							Analyst: ECH
E. Coli	2755	10		CFU/100ml	10	8/13/2013 3:31:00 PM	8819

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1309523

Date Reported: 9/18/2013

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** The Group**Client Sample ID:** Pond**Project:** Expo NM**Collection Date:** 9/13/2013 2:00:00 PM**Lab ID:** 1309523-001**Matrix:** AQUEOUS**Received Date:** 9/13/2013 2:29:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM 9223B FECAL INDICATOR: E. COLI MPN							Analyst: ECH
E. Coli	>24196	10.00		CFU/100ml	10	9/14/2013 3:10:00 PM	9316

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		



FORM 5 - Weekly Wastewater Storage and Containment Structure Inspections
Log Sheet

Facility Name: EXPO New Mexico NPDES Permit No.: NMG01000

Storage or Containment Structure: Process Water Treatment Tank and Pumping

Instructions: Use this form to keep track of weekly visual inspections of the structures that you use to store or contain manure, litter, and process wastewater. Use a separate form for each structure.

Keep track of your inspections each week in the table below. Provide the following information:

1. the date of the inspection
2. the initials of the inspector
3. for open liquid waste storage structures, record the level indicated on the depth marker
4. use the "Notes" column to describe problems, if you find any, and how they might be fixed
5. fill in the "date corrected" column with the date when you correct the problem

	Date	Initials	Depth Marker Reading	Notes (Note any problems found and possible solutions.)	Date Corrected
Week 1	6/7/13	KF	0'-		
Week 2	6/14/13	KF	3'-0		
Week 3	6/21/13	KF	4'-8"		
Week 4	6/28/13	KF	0'-0"		
Week 5	7/5/13	KF	3'-3		
Week 6	7/12/13	KF	4'-0"		
Week 7	7/19/13	KF	8'-0	Lift Station Auto Pump Overwhelmed and Not Auto Pumping: AAA Sewer Called out to pump 3,830 Gal	7/22/13
Week 8	7/26/13	KF	0'-0"		
Week 9	8/2/13	KF	3'-2"		
Week 10	8/9/13	KF	6'-0"	Pumps unresponsive - Hand Pumped Approx 2,870 Gallons	
Week 11	8/16/13	KF	8'-0"	Lift Station Full - Auto Pump Un-responsive- Hand Pumped Approx 3,830 Galons	8/12/13



Week 12	8/23/13	KF	8'-	Lift Station Overwhelmed and not Auto Pumping. SW Sewer called out to Pump 3,830 Gallons	8/23/13
Week 13	8/30/13	KF	2'-6"		
Week 14	9/6/13	KF	4'-8"	Auto Pump Not responding- West Lift Station full. Trap and Lift Station Pumped and Cleaned by SW Sewer	9/3/13
Week 15	9/13/13	KF	5'-0"	Auto Pump Not responding- West Lift Station full. Trap and Lift Station Pumped and Cleaned by SW Sewer	9/12/13
Week 16	9/20/13	KF	2'-3"		
Week 17	9/27/13	KF	3'-5"		
Week 18	10/4/13	KF	4'-6"		
Week 19	10/11/13	KF	1'-2"		
Week 20	10/18/13	KF	2'-6"		
Week 21	10/25/13	KF	3'-7"	Silt Trap reached max 4'6", SW Sewer called out to pump both tanks	10/31/13
Week 22	11/1/13	KF	0'-0"		
Week 23	11/8/13	KF	3'-5"		
Week 24	11/15/13	KF	4'-0"		
Week 25	11/22/13	KF	4'-3"		
Week 26	11/29/13	KF	4'-3"		
Week 27	12/6/13	KF	4'-3"		
Week 28			'-		
Week 29			'-		



FORM 7 - Manure Transfer Record*

Facility Name: **EXPO New Mexico**

NPDES Permit No. NM G01000

Instructions: Use this form to keep track of all manure, litter, and process wastewater generated at your CAFO facility that you transfer to other persons (i.e. for use or disposal not under the control of your CAFO).

Date of Transfer	Name of Recipient	Address of Recipient	Amount Transferred
			Manure (tons)
6/3/13	Waste Management of NM	Rio Rancho Landfill 1.92 Tons	914813 (Ticket #)
6/3/13	Waste Management of NM	Rio Rancho Landfill 3.53 Tons	915099
6/3/13	Waste Management of NM	Rio Rancho Land Fill 6.07 Tons	915100
6/3/13	Waste Management of NM	Rio Rancho Landfill 7.92 Tons	915141
6/4/13	Waste Management of NM	Rio Rancho Landfill 4.76 Tons	915849
6/4/13	Waste Management of NM	Rio Rancho Landfill 5.3 Tons	915889
6/4/13	Waste Management of NM	Rio Rancho Landfill 4.51 Tons	915892
6/12/13	Waste Management of NM	Rio Rancho Landfill 1.09 Tons	920132
6/12/13	Waste Management of NM	Rio Rancho Landfill 4.2 Tons	920133
6/12/13	Waste Management of NM	Rio Rancho Landfill 6.50 Tons	920134
6/12/13	Waste Management of NM	Rio Rancho Landfill 2.62 Tons	920136
6/12/13	Waste Management of NM	Rio Rancho Landfill 4.13 Tons	920138
6/12/13	Waste Management of NM	Rio Rancho Landfill 2.0 Tons	920206
6/13/13	Waste Management of NM	Rio Rancho Landfill .43 Tons	920838
6/13/13	Waste Management of NM	Rio Rancho Landfill 4.40 Tons	920839



FORM 7 - Manure Transfer Record (Continued)*

Date of Transfer	Name of Recipient	Location/Tons	Ticket Number
6/13/13	Waste Management of NM	Rio Rancho Landfill 6.15 Tons	920840
6/13/13	Waste Management of NM	Rio Rancho Landfill 5.13 Tons	920842
6/13/13	Waste Management of NM	Rio Rancho Landfill 3.72 Tons	920843
6/13/13	Waste Management of NM	Rio Rancho Landfill 2.14 Tons	921097
6/14/13	Waste Management of NM	Rio Rancho Landfill 3.93 Tons	921346
6/14/13	Waste Management of NM	Rio Rancho Landfill 7.78 Tons	921347
6/14/13	Waste Management of NM	Rio Rancho Landfill 4.35 Tons	921350
6/14/13	Waste Management of NM	Rio Rancho Landfill 2.98 Tons	921352
6/14/13	Waste Management of NM	Rio Rancho Landfill 2.88 Tons	921354
6/14/13	Waste Management of NM	Rio Rancho Landfill 2.63 Tons	921651
6/17/13	Waste Management of NM	Rio Rancho Landfill 2.14 Tons	921353
6/20/13	Waste Management of NM	Rio Rancho Landfill 3.04 Tons	923996
6/20/13	Waste Management of NM	Rio rancho Landfill 3.83 Tons	923997
6/20/13	Waste Management of NM	Rio Rancho Landfill 8.49 Tons	924006
6/20/13	Waste Management of NM	Rio Rancho Landfill 3.42 Tons	924007
6/25/13	Waste Management of NM	Rio Rancho Landfill 4/18 Tons	923999
6/25/13	Waste Management of NM	Rio Rancho Landfill .73 Tons	924008
6/25/13	Waste Management of NM	Rio Rancho Landfill 4.86 Tons	927650
6/25/13	Waste Management of NM	Rio Rancho Landfill 1.18 Tons	927652



FORM 7 - Manure Transfer Record (Continued)*

Date of Transfer	Name of Recipient	Location/Tons	Ticket Number
6/26/13	Waste Management of NM	Rio Rancho Landfill 2.17 Tons	927654
6/26/13	Waste Management of NM	Rio Rancho Landfill .45 Tons	927655
6/26/13	Waste Management of NM	Rio Rancho Landfill 3.8 Tons	928599
6/29/13	Waste Management of NM	Rio Rancho Landfill 5.31 Tons	931483
7/1/13	Waste Management of NM	Rio Rancho Landfill 4.82 Tons	931485
7/1/13	Waste Management of NM	Rio Rancho Landfill 4.73 Tons	931487
7/1/13	Waste Management of NM	Rio rancho Landfill 4.81 Tons	931488
7/1/13	Waste Management of NM	Rio Rancho Landfill 5.38 Tons	931490
7/4/13	Waste Management of NM	Rio Rancho Landfill 6.52 Tons	933356
7/4/13	Waste Management of NM	Rio Rancho Landfill 4.91 Tons	933357
7/5/13	Waste Management of NM	Rio Rancho Landfill 5.28 Tons	933359
7/10/13	Waste Management of NM	Rio Rancho Landfill 7.56 Tons	935956
7/10/13	Waste Management of NM	Rio Rancho landfill .67 Tons	936142
7/10/13	Waste Management of NM	Rio Rancho Landfill 5.40 Tons	936144
7/10/13	Waste Management of NM	Rio Rancho Landfill 5.18 Tons	936149
7/10/13	Waste Management of NM	Rio Rancho Landfill 6.64 Tons	936151
7/16/13	Waste Management of NM	Rio Rancho Landfill 1.40 Tons	938711
7/16/13	Waste Management of NM	Rio Rancho Landfill 4.31 Tons	938712
7/16/13	Waste Management of NM	Rio Rancho Landfill 5.21 Tons	938717



FORM 7 - Manure Transfer Record (Continued)*

Date of Transfer	Name of Recipient	Location/Tons	Ticket Number
7/17/13	Waste Management of NM	Rio rancho Landfill 3.97 Tons	939845
7/17/13	Waste Management of NM	Rio Rancho Landfill 3.94 Tons	940533
7/19/13	Waste Management of NM	Rio Rancho Landfill 6.67 Tons	940981
7/22/13	Waste Management of NM	Rio Rancho Landfill 5.95.Tons	938420
7/22/13	Waste Management of NM	Rio Rancho Landfill 2.67 Tons	942517
7/23/13	Waste Management of NM	Rio Rancho Landfill 3.86 Tons	943246
7/23/13	Waste Management of NM	Rio Rancho Landfill 2.45 Tons	943251
7/23/13	Waste Management of NM	Rio Rancho Landfill 3.58 Tons	943257
7/23/13	Waste Management of NM	Rio Rancho Landfill 4.14 Tons	943259
7/23/13	Waste Management of NM	Rio Rancho Landfill 4.42 Tons	943260
7/24/13	Waste Management of NM	Rio Rancho Landfill 2.29 Tons	943870
7/24/13	Waste Management of NM	Rio Rancho Landfill 2.09 Tons	943871
7/25/13	Waste Management of NM	Rio Rancho Landfill 5.91 Tons	944312
7/25/13	Waste Management of NM	Rio Rancho Landfill 6.72 Tons	944313
7/25/13	Waste Management of NM	Rio rancho Landfill 5.22 Tons	944314
7/25/13	Waste Management of NM	Rio Rancho Landfill 4.66 Tons	944315
7/25/13	Waste Management of NM	Rio Rancho Landfill 6/15 Tons	944317
7/25/13	Waste Management of NM	Rio rancho Landfill 4.80 Tons	944319
7/25/13	Waste Management of NM	Rio Rancho Landfill 2.67 Tons	944324



FORM 7 - Manure Transfer Record (Continued)*

Date of Transfer	Name of Recipient	Location/Tons	Ticket Number
7/26/13	Waste Management of NM	Rio Rancho Landfill 5.77 Tons	945314
7/26/13	Waste Management of NM	Rio Rancho Landfill 5.70 Tons	945322
7/27/13	Waste Management of NM	Rio Rancho landfill 6.43 Tons	946836
7/29/13	Waste Management of NM	Rio Rancho Landfill 6.25.13	947107
7/30/13	Waste Management of NM	Rio Rancho Landfill 6.72 Tons	947323
7/30/13	Waste Management of NM	Rio Rancho Landfill 3.29 Tons	947418
7/30/13	Waste Management of NM	Rio Rancho Landfill 5.20 Tons	947437
7/30/13	Waste Management of NM	Rio Rancho Landfill 6.98 Tons	947443
7/30/13	Waste Management of NM	Rio Rancho Landfill 3.08 Tons	947449
7/30/13	Waste Management of NM	Rio Rancho Landfill 3.32 Tons	947454
7/30/13	Waste Management of NM	Rio Rancho Landfill 3.82 Tons	947679
7/31/13	Waste Management of NM	Rio Rancho Landfill 4.09 Tons	947430
7/31/13	Waste Management of NM	Rio Rancho Landfill 5.44 Tons	948297



FORM 7 - Manure Transfer Record*

Facility Name: **EXPO New Mexico**

NPDES Permit No. NMG01000

Instructions: Use this form to keep track of all manure, litter, and process wastewater generated at your CAFO facility that you transfer to other persons (i.e. for use or disposal not under the control of your CAFO).

Date of Transfer	Name of Recipient	Location/Tons	Ticket Number
8/1/13	Waste Management of NM	Rio Rancho Landfill 6.34 Tons	947833
8/2/13	Waste Management of NM	Rio Rancho Landfill .19 Tons	949067
8/2/13	Waste Management of NM	Rio Rancho Landfill 2.43 Tons	949069
8/5/13	Waste Management of NM	Rio Rancho Landfill 3.41 Tons	951342
8/5/13	Waste Management of NM	Rio Rancho Landfill 3.56 Tons	951343
8/7/13	Waste Management of NM	Rio Rancho Landfill 3.52 Tons	952473
8/7/13	Waste Management of NM	Rio Rancho Landfill 4.70 Tons	952476
8/7/13	Waste Management of NM	Rio Rancho Landfill 3.74 Tons	952479
8/8/13	Waste Management of NM	Rio Rancho Landfill 3.76 Tons	952474
8/8/13	Waste Management of NM	Rio Rancho Landfill 3.61 Tons	953183
8/8/13	Waste Management of NM	Rio Rancho Landfill 3.80 Tons	953234
8/8/13	Waste Management of NM	Rio Rancho Landfill 3.66 Tons	953237



FORM 7 - Manure Transfer Record (Continued)*

Date of Transfer	Name of Recipient	Location/Tons	Ticket Number
8/8/13	Waste Management of NM	Rio Rancho Landfill 7.30 Tons	953240
8/8/13	Waste Management of NM	Rio Rancho Landfill 3.69 Tons	953246
8/8/13	Waste Management of NM	Rio Rancho Landfill 5.84 Tons	953249
8/9/13	Waste Management of NM	Rio Rancho Landfill 3.74 Tons	953952
8/9/13	Waste Management of NM	Rio Rancho Landfill 4.09 Tons	953956
8/12/13	Waste Management of NM	Rio Rancho Landfill 3.76 Tons	955402
8/14/13	Waste Management of NM	Rio Rancho Landfill 4.15 Tons	956509
8/14/13	Waste Management of NM	Rio Rancho Landfill 4.91 Tons	956510
8/14/13	Waste Management of NM	Rio Rancho Landfill 3.60 Tons	956514
8/14/13	Waste Management of NM	Rio Rancho Landfill 3.59 Tons	956515
8/14/13	Waste Management of NM	Rio Rancho Landfill 3.83 Tons	956516
8/14/13	Waste Management of NM	Rio Rancho Landfill 8.40 Tons	957002
8/14/13	Waste Management of NM	Rio Rancho Landfill 3.80 Tons	957007
8/19/13	Waste Management of NM	Rio Rancho Landfill 4.24 Tons	959998



FORM 7 - Manure Transfer Record (Continued)*

Date of Transfer	Name of Recipient	Location/Tons	Ticket Number
8/19/13	Waste Management of NM	Rio Rancho Landfill 4.23 Tons	960000
8/20/13	Waste Management of NM	Rio Rancho Landfill 8.02 Tons	960002
8/20/13	Waste Management of NM	Rio Rancho Landfill 9.42 Tons	960003
8/23/13	Waste Management of NM	Rio Rancho Landfill 3.61 Tons	963318
8/26/13	Waste Management of NM	Rio Rancho Landfill 3.37 Tons	963676
8/26/13	Waste Management of NM	Rio Rancho Landfill 6.15 Tons	963677
8/26/13	Waste Management of NM	Rio Rancho Landfill 1.38 Tons	963678
8/26/13	Waste Management of NM	Rio Rancho Landfill 1.67 Tons	963679
8/26/13	Waste Management of NM	Rio Rancho Landfill 4.27 Tons	963998
8/26/13	Waste Management of NM	Rio Rancho Landfill 4.66 Tons	964123
8/27/13	Waste Management of NM	Rio Rancho Landfill 7.07 Tons	964113
8/27/13	Waste Management of NM	Rio Rancho Landfill 13.44 Tons	964115
8/27/13	Waste Management of NM	Rio Rancho Landfill 7.18 Tons	964118
8/27/13	Waste Management of NM	Rio Rancho Landfill 2.62 Tons	964853

**FORM 7 - Manure Transfer Record (Continued)***[illegible]



FORM 7 - Manure Transfer Record*

Facility Name: **EXPO New Mexico**

NPDES Permit No. NM01000

Instructions: Use this form to keep track of all manure, litter, and process wastewater generated at your CAFO facility that you transfer to other persons (i.e. for use or disposal not under the control of your CAFO).

Date of Transfer	Name of Recipient	Location/Tons	Ticket Number
9/5/13	Waste Management of NM	Rio Rancho Landfill 4.88 Tons	969361
9/5/13	Waste Management of NM	Rio Rancho Landfill 6.11 Tons	969362
9/5/13	Waste Management of NM	Rio Rancho Landfill 8.16 Tons	969764
9/5/13	Waste Management of NM	Rio Rancho Landfill 6.25 Tons	970039
9/6/13	Waste Management of NM	Rio Rancho Landfill 7.97 Tons	970040
9/6/13	Waste Management of NM	Rio Rancho Landfill 2.56 Tons	970041
9/6/13	Waste Management of NM	Rio Rancho Landfill 8.55 Tons	970042
9/6/13	Waste Management of NM	Rio Rancho Landfill 1.09 Tons	970061
9/9/13	Waste Management of NM	Rio Rancho Landfill 2.10 Tons	970770
9/9/13	Waste Management of NM	Rio Rancho Landfill 2.23 Tons	971927
9/9/13	Waste Management of NM	Rio Rancho Landfill 3.53 Tons	971929
9/9/13	Waste Management of NM	Rio Rancho Landfill 6.94 Tons	971952



FORM 7 - Manure Transfer Record (Continued)*

Date of Transfer	Name of Recipient	Location/Tons	Ticket Number
9/9/13	Waste Management of NM	Rio Rancho Landfill 8.41 Tons	971953
9/9/13	Waste Management of NM	Rio Rancho Landfill 4.52 Tons	971954
9/9/13	Waste Management of NM	Rio Rancho Landfill 4.56 Tons	971965
9/10/13	Waste Management of NM	Rio Rancho Landfill 5.93 Tons	972661
9/10/13	Waste Management of NM	Rio Rancho Landfill 4.31 Tons	972710
9/10/13	Waste Management of NM	Rio Rancho Landfill 5.51 Tons	972803
9/11/13	Waste Management of NM	Rio Rancho Landfill 2.83 Tons	973282
9/11/13	Waste Management of NM	Rio Rancho Landfill 1.96 Tons	973283
9/11/13	Waste Management of NM	Rio Rancho Landfill 3.12 Tons	973284
9/11/13	Waste Management of NM	Rio Rancho Landfill 1.44 Tons	973285
9/11/13	Waste Management of NM	Rio Rancho Landfill 6.37 Tons	973308
9/13/13	Waste Management of NM	Rio Rancho Landfill 3.39 Tons	975110
9/13/13	Waste Management of NM	Rio Rancho Landfill 7.38 Tons	975111
9/16/13	Waste Management of NM	Rio Rancho Landfill 11.37 Tons	976175
9/16/13	Waste Management of NM	Rio Rancho Landfill 12.11 Tons	976196


FORM 7 - Manure Transfer Record (Continued)*

Date of Transfer	Name of Recipient	Location/Tons	Ticket Number
9/16/13	Waste Management of NM	Rio Rancho Landfill 10.43 Tons	976197
9/16/13	Waste Management of NM	Rio Rancho Landfill 10.50 Tons	976269
9/17/13	Waste Management of NM	Rio Rancho Landfill 7.70 Tons	976177
9/17/13	Waste Management of NM	Rio Rancho Landfill 8.0 Tons	976178
9/17/13	Waste Management of NM	Rio Rancho Landfill 6.20 Tons	976194
9/17/13	Waste Management of NM	Rio Rancho Landfill 6.77 Tons	976658
9/17/13	Waste Management of NM	Rio Rancho Landfill 8.02 Tons	976706
9/18/13	Waste Management of NM	Rio Rancho Landfill 8.10 Tons	977392
9/18/13	Waste Management of NM	Rio Rancho Landfill 9.45 Tons	977409
9/18/13	Waste Management of NM	Rio Rancho Landfill 3.55 Tons	977412
9/18/13	Waste Management of NM	Rio Rancho Landfill 5.03 Tons	977414
9/18/13	Waste Management of NM	Rio Rancho Landfill 4.46 Tons	977418
9/18/13	Waste Management of NM	Rio Rancho Landfill 6.18 Tons	977420
9/19/13	Waste Management of NM	Rio Rancho Landfill 8.06 Tons	978262
9/19/13	Waste Management of NM	Rio Rancho Landfill 2.89 Tons	978265



FORM 7 - Manure Transfer Record (Continued)*

Date of Transfer	Name of Recipient	Location/Tons	Ticket Number
9/19/13	Waste Management of NM	Rio Rancho Landfill 7.12 Tons	978281
9/20/13	Waste Management of NM	Rio Rancho Landfill 7.88 Tons	979319
9/20/13	Waste Management of NM	Rio Rancho Landfill 7.29 Tons	979320
9/20/13	Waste Management of NM	Rio Rancho Landfill 9.45 Tons	979321
9/21/13	Waste Management of NM	Rio Rancho Landfill 5.54 Tons	979703
9/21/13	Waste Management of NM	Rio Rancho Landfill 3.65 Tons	979708
9/21/13	Waste Management of NM	Rio Rancho Landfill 6.89 Tons	979709
9/21/13	Waste Management of NM	Rio Rancho Landfill 8.23 Tons	979713
9/21/13	Waste Management of NM	Rio Rancho Landfill 6.91 Tons	979715
9/23/13	Waste Management of NM	Rio Rancho Landfill 11.11 Tons	979718
9/23/13	Waste Management of NM	Rio Rancho Landfill 8.91 Tons	979719
9/23/13	Waste Management of NM	Rio Rancho Landfill 9.15 Tons	979720
9/23/13	Waste Management of NM	Rio Rancho Landfill 6.07 Tons	980308
9/24/13	Waste Management of NM	Rio Rancho Landfill 9.20 Tons	980141
9/24/13	Waste Management of NM	Rio Rancho Landfill 7.03 Tons	980762
9/24/13	Waste Management of NM	Rio Rancho Landfill 3.51 Tons	980771
9/24/13	Waste Management of NM	Rio Rancho Landfill 12.39 Tons	980993
9/25/13	Waste Management of NM	Rio Rancho Landfill 7.77 Tons	980774
9/25/13	Waste Management of NM	Rio Rancho Landfill 8.23 Tons	981894



FORM 7 - Manure Transfer Record (Continued)*

Date of Transfer	Name of Recipient	Location/Tons	Ticket Number
9/26/13	Waste Management of NM	Rio Rancho Landfill 9.65 Tons	982252
9/26/13	Waste Management of NM	Rio Rancho Landfill 6.01 Tons	982253
9/26/13	Waste Management of NM	Rio Rancho Landfill 7.58 Tons	982255
9/26/13	Waste Management of NM	Rio Rancho Landfill 1.77 Tons	982258
9/26/13	Waste Management of NM	Rio Rancho Landfill 6.74 Tons	982260
9/26/13	Waste Management of NM	Rio Rancho Landfill 5.67 Tons	982261
9/26/13	Waste Management of NM	Rio Rancho Landfill 13.62 Tons	982646
9/27/13	Waste Management of NM	Rio Rancho Landfill 5.86 Tons	983459
9/27/13	Waste Management of NM	Rio Rancho Landfill 7.12 Tons	983461
9/27/13	Waste Management of NM	Rio Rancho Landfill 5.93 Tons	983463
9/27/13	Waste Management of NM	Rio Rancho Landfill 4.81 Tons	983465
9/30/13	Waste Management of NM	Rio Rancho Landfill 5.22 Tons	984456



FORM 7 - Manure Transfer Record*

Facility Name: **EXPO New Mexico**

NPDES Permit No. NM01000

Instructions: Use this form to keep track of all manure, litter, and process wastewater generated at your CAFO facility that you transfer to other persons (i.e. for use or disposal not under the control of your CAFO).

Date of Transfer	Name of Recipient	Location/Tons	Ticket Number
10/1/13	Waste Management of NM	Rio Rancho Landfill 8.76 Tons	985292
10/1/13	Waste Management of NM	Rio Rancho Landfill 4.08 Tons	985293
10/1/13	Waste Management of NM	Rio Rancho Landfill 6.52 Tons	985296
10/1/13	Waste Management of NM	Rio Rancho Landfill 7.93 Tons	985297
10/1/13	Waste Management of NM	Rio Rancho Landfill 3.34 Tons	985298
10/1/13	Waste Management of NM	Rio Rancho Landfill 7.11 Tons	985312
10/2/13	Waste Management of NM	Rio Rancho Landfill 10.66 Tons	986262
10/2/13	Waste Management of NM	Rio Rancho Landfill 9.93 Tons	986263
10/8/13	Waste Management of NM	Rio Rancho Landfill 7.23 Tons	989704
10/24/13	Waste Management of NM	Rio Rancho Landfill 10.53 Tons	583
10/25/13	Waste Management of NM	Rio Rancho Landfill 4.89 Tons	1044
10/31/13	Waste Management of NM	Rio Rancho Landfill 8.10 Tons	3517



FORM 7 - Manure Transfer Record*

Facility Name: **EXPO New Mexico**

NPDES Permit No. NMG01000

Instructions: Use this form to keep track of all manure, litter, and process wastewater generated at your CAFO facility that you transfer to other persons (i.e. for use or disposal not under the control of your CAFO).

Date of Transfer	Name of Recipient	Location/Tons	Ticket Number
11/7/13	Waste Management of NM	Rio Rancho Landfill 5.76 Tons	8403
11/8/13	Waste Management of NM	Rio Rancho Landfill 5.15 Tons	9503
11/8/13	Waste Management of NM	Rio Rancho Landfill 5.01 Tons	9519
11/11/13	Waste Management of NM	Rio Rancho Landfill 5.51 Tons	9596
11/11/13	Waste Management of NM	Rio Rancho Landfill 3.63 Tons	9599
11/15/13	Waste Management of NM	Rio Rancho Landfill 5.09 Tons	13418
11/15/13	Waste Management of NM	Rio Rancho Landfill 8.85 Tons	13416
11/29/13	Waste Management of NM	Rio Rancho Landfill 7.27 Tons	20739
11/29/13	Waste Management of NM	Rio Rancho Landfill 9.38 Tons	20735
11/29/13	Waste Management of NM	Rio Rancho Landfill 6.53 Tons	20736
11/29/13	Waste Management of NM	Rio Rancho Landfill 5.96 Tons	20738
11/29/13	Waste Management of NM	Rio Rancho Landfill 9.33 Tons	20737



FORM 7 - Manure Transfer Record*

Facility Name: **EXPO New Mexico/Downs @ Albuquerque**

NPDES Permit No. NMG01000

Instructions: Use this form to keep track of all manure, litter, and process wastewater generated at your CAFO facility that you transfer to other persons (i.e. for use or disposal not under the control of your CAFO).

Date of Transfer	Name of Recipient	Location/Tons	Invoice Number
8/5/13	Sunset Trucking Company	4 Loads (88 Tons)	688
8/6/13	Sunset Trucking Company	3 Loads (66 Tons)	688
8/7/13	Sunset Trucking Company	3 Loads (66 Tons)	688
8/8/13	Sunset Trucking Company	3 Loads (66 Tons)	688
8/9/13	Sunset Trucking Company	3 Loads (66 Tons)	688
8/11/13	Sunset Trucking Company	3 Loads (66 Tons)	688
8/12/13	Sunset Trucking Company	3 Loads (66 Tons)	696
8/13/13	Sunset Trucking Company	3 Loads (66 Tons)	696
8/14/13	Sunset Trucking Company	3 Loads (66 Tons)	696
8/15/13	Sunset Trucking Company	3 Loads (66 Tons)	696
8/16/13	Sunset Trucking Company	3 Loads (66 Tons)	696
8/17/13	Sunset Trucking Company	3 Loads (66 Tons)	696



FORM 7 - Manure Transfer Record (Continued)*

Date of Transfer	Name of Recipient	Location/Tons	Invoice Number
8/17/13	Sunset Trucking Company	3 Loads (66 Tons)	696
8/19/13	Sunset Trucking Company	4 Loads (88 Tons)	697
8/20/13	Sunset Trucking Company	3 Loads (66 Tons)	697
8/21/13	Sunset Trucking Company	3 Loads (66 Tons)	697
8/22/13	Sunset Trucking Company	3 Loads (66 Tons)	697
8/23/13	Sunset Trucking Company	3 Loads (66 Tons)	697
8/24/13	Sunset Trucking Company	3 Loads (66 Tons)	697
8/25/13	Sunset Trucking Company	3 Loads (66 Tons)	697
8/26/13	Sunset Trucking Company	3 Loads (66 Tons)	705
8/27/13	Sunset Trucking Company	3 Loads (66 Tons)	705
8/28/13	Sunset Trucking Company	3 Loads (66 Tons)	705
8/29/13	Sunset Trucking Company	3 Loads (66 Tons)	705
8/30/13	Sunset Trucking Company	3 Loads (66 Tons)	705
9/1/13	Sunset Trucking Company	3 Loads (66 Tons)	705



FORM 7 - Manure Transfer Record (Continued)*

Date of Transfer	Name of Recipient	Location/Tons	Invoice Number
9/2/13	Sunset Trucking Company	3 Loads (66 Tons)	706
9/3/13	Sunset Trucking Company	3 Loads (66 Tons)	706
9/4/13	Sunset Trucking Company	3 Loads (66 Tons)	706
9/5/13	Sunset Trucking Company	3 Loads (66 Tons)	706
9/6/13	Sunset Trucking Company	3 Loads (66 Tons)	706
9/7/13	Sunset Trucking Company	3 Loads (66 Tons)	706
9/8/13	Sunset Trucking Company	1 Load (22 Tons)	706
9/9/13	Sunset Trucking Company	3 Loads (66 Tons)	707
9/10/13	Sunset Trucking Company	3 Loads (66 Tons)	707
9/11/13	Sunset Trucking Company	3 Loads (66 Tons)	707
9/12/13	Sunset Trucking Company	3 Loads (66 Tons)	707
9/13/13	Sunset Trucking Company	3 Loads (66 Tons)	707
9/14/13	Sunset Trucking Company	3 Loads (66 Tons)	707
9/15/13	Sunset Trucking Company	3 Loads (66 Tons)	707


FORM 7 - Manure Transfer Record (Continued)*

Date of Transfer	Name of Recipient	Location/Tons	Invoice Number
9/16/13	Sunset Trucking Company	3 Loads (66 Tons)	716
9/17/13	Sunset Trucking Company	3 Loads (66 Tons)	716
9/18/13	Sunset Trucking Company	3 Loads (66 Tons)	716
9/19/13	Sunset Trucking Company	3 Loads (66 Tons)	716
9/20/13	Sunset Trucking Company	1 Load (22 Tons)	716
9/22/13	Sunset Trucking Company	3 Loads (66 Tons)	716
9/23/13	Sunset Trucking Company	4 Loads (88 Tons)	717
9/24/13	Sunset Trucking Company	3 Loads (66 Tons)	717
9/25/13	Sunset Trucking Company	3 Loads (66 Tons)	717
9/26/13	Sunset Trucking Company	3 Loads (66 Tons)	717
9/27/13	Sunset Trucking Company	3 Loads (66 Tons)	717
9/28/13	Sunset Trucking Company	3 Loads (66 Tons)	717
10/1/13	Sunset Trucking Company	3 Loads (66 Tons)	718
10/2/13	Sunset Trucking Company	3 Loads (66 Tons)	718
10/3/13	Sunset Trucking Company	3 Loads (66 Tons)	718
10/4/13	Sunset Trucking Company	3 Loads (66 Tons)	718

[illegible]



FORM 8 - Weekly Manure Storage and Containment Structure Inspections Log Sheet

Facility Name: EXPO New Mexico

NPDES Permit No.: NMG01000

Storage or Containment Structure: Temporary Bins and Storage / Loading Area

Instructions: Use this form to keep track of weekly visual inspections of the structures that you use to store or contain manure, litter, and process wastewater. Use a separate form for each structure.

Keep track of your inspections each week in the table below. Provide the following information:

1. the date of the inspection
2. the initials of the inspector
3. for open liquid waste storage structures, record the level indicated on the depth marker
4. use the "Notes" column to describe problems, if you find any, and how they might be fixed
5. fill in the "date corrected" column with the date when you correct the problem

	Date	Initials	Depth Marker Reading	Notes (Note any problems found and possible solutions.)	Date Corrected
Week 1	6/7/13	KF	3'-6"	7 Roll-Offs; Depth marker applied to pilot dumpster. No issues cited.	
Week 2	6/14/13	KF	3'-2"	18 Roll-Offs; Depth marker applied to pilot dumpster. No issues cited.	
Week 3	6/21/13	KF	4'-0"	5 Roll-Offs; Depth marker applied to pilot dumpster. No issues cited.	
Week 4	6/28/13	KF	2'-8"	7 Roll-Offs; Depth marker applied to pilot dumpster. Some overspill of CBW in loading area. Called for clean-up	6/24/13
Week 5	7/5/13	KF	3'-3"	8 Roll-Offs; Depth marker applied to pilot dumpster. No Issues	
Week 6	7/12/13	KF	3'-5"	5 Roll-Offs; Depth marker applied to pilot dumpster. No Issues	

	Date	Initials	Depth Marker Reading	Notes (Note any problems found and possible solutions.)	Date Corrected
Week 7	7/19/13	KF	3'-"	6 Roll-Offs; Depth marker applied to pilot dumpster. No Issues	
Week 8	7/26/13	KF	3'-3"	18 Roll-Offs; Depth marker applied to pilot dumpster. No Issues	
Week 9	8/2/13	KF	3'-4"	14 Roll-Offs; Depth marker applied to pilot dumpster. No Issues	
Week 10	8/9/13	KF	3'-9"	14 Roll-Offs; Depth marker applied to pilot dumpster. No Issues	
Week 11	8/16/13	KF	3'- "	8 Roll-Offs; Depth marker applied to pilot dumpster. No Issues	
Week 12	8/23/13	KF	4'-8"	5 Roll-Offs; Depth marker applied to pilot dumpster. No Issues	
Week 13	8/30/13	KF	4'-2"	12 Roll-Offs; Depth marker applied to pilot dumpster. No Issues	
Week 14	9/6/13	KF	4'-8"	8 Roll-Offs; Depth marker applied to pilot dumpster. No Issues	
Week 15	9/13/13	KF	4'-6"	17 Roll-Offs; Depth marker applied to pilot dumpster. No Issues	
Week 16	9/20/13	KF	5'-0"	21 Roll-Offs; Depth marker applied to pilot dumpster. No Issues	
Week 17	9/27/13	KF	5'- "	26 Roll-Offs; Depth marker applied to pilot dumpster. No Issues	
Week 18	10/4/13	KF	4'-10"	9 Roll-Offs; Depth marker applied to pilot dumpster. No Issues	

	Date	Initials	Depth Marker Reading	Notes (Note any problems found and possible solutions.)	Date Corrected
Week 19	10/11/13	KF	4'-6"	1 Roll-Off; No Issues	
Week 20	10/18/13	KF	0'-0"		
Week 21	10/25/13	KF	5'-0"	2 Roll-Offs; No Issues	
Week 22	11/1/13	KF	'- "		
Week 23	11/8/13	KF	'- "		
Week 24	11/15/13	KF	'- "		
Week 25	11/22/13	KF	'- "		
Week 26	11/29/13	KF	'- "		
Week 27			'- "		
Week 28			'- "		
Week 29			'- "		
Week 30			'- "		



FORM 9 - Precipitation Log

This log will be used to record all measurable precipitation events at the facility. A rain gauge shall be maintained in good working condition at all times.

Date	Amount	Date	Amount	Date	Amount	Date	Amount
7/5/13	0.37"	11/16/13	0.25"		"		"
7/6/13	0.29"	11/21/13	0.29"		"		"
7/7/13	0.01"	11/22/13	0.31"		"		"
7/15/13	0.19"	11/24/13	0.15"		"		"
7/16/13	0.01"	11/25/13	0.03"		"		"
7/19/13	0.15"		"		"		"
7/20/13	0.61"		"		"		"
7/21/13	0.04"		"		"		"
7/25/13	0.04"		"		"		"
7/26/13	1.26"		"		"		"
7/27/13	0.30"		"		"		"
7/29/13	0.03"		"		"		"
8/2/13	0.04"		"		"		"
8/3/13	0.08"		"		"		"
8/5/13	0.14"		"		"		"
8/11/13	0.06"		"		"		"
8/12/13	0.01"		"		"		"
8/18/13	0.01"		"		"		"
8/23/13	0.12"		"		"		"
8/25/13	0.01"		"		"		"
8/26/13	0.43"		"		"		"
8/27/13	0.01"		"		"		"
9/2/13	0.13"		"		"		"
9/4/13	0.46"		"		"		"
9/10/13	0.01"		"		"		"
9/11/13	0.84"		"		"		"
9/12/13	0.01"		"		"		"
9/13/13	1.17"		"		"		"
9/14/13	0.68"		"		"		"
9/15/13	1.34"		"		"		"
9/16/13	0.01"		"		"		"
9/17/13	0.01"		"		"		"
9/19/13	0.15"		"		"		"
9/22/13	0.18"		"		"		"
9/23/13	0.44"		"		"		"
9/24/13	0.01"		"		"		"
10/25/13	0.10"		"		"		"
10/26/13	0.01"		"		"		"
11/5/13	0.34"		"		"		"



FORM 10 - Liner Maintenance

Where a liner is installed to prevent hydrologic connection, the operator must maintain the liner to inhibit infiltration of wastewaters to the underlying soils and groundwater. Liners shall be protected from animals by fences or other protective devices. No trees shall be allowed to grow within the potential distance of the root zone. Documentation of liner maintenance shall be kept in the CNMP.

Description of Disturbance: On Saturday, 9/14/2013, during the New Mexico State Fair, it was noted that a female patron operating a four wheel drive vehicle accidentally backed into the retention pond dam liner causing a smaller tear in the liner membrane toward the south end of the dam and approximately 10" above the bottom.

Action Taken: Immediate steps were taken to seal the small membrane hole with industrial strength repair material. Permanent heat seal forthcoming.

Inspector: Larry Trujillo, Director Safety/Security

Date: 9/14/13

Description of Disturbance:

Action Taken:

Inspector:

Date:

Description of Disturbance:

Action Taken:

Inspector:

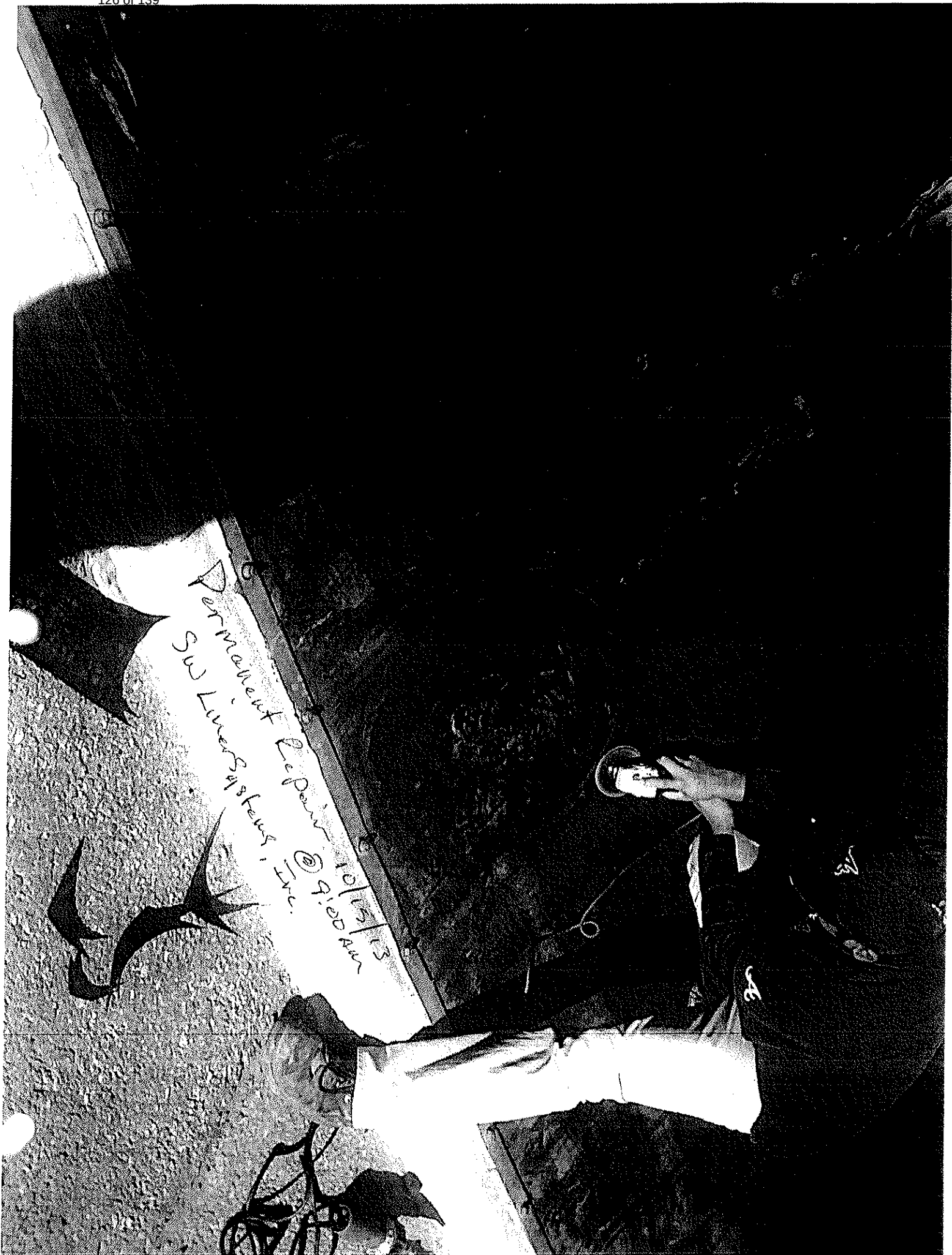
Date:

- If inspection confirms that the liner has mechanical or structural damage, the operator shall have a Professional Engineer evaluate the liner.

Lemporey & Blair
Donny State Fair 2013

Permanent Repair
SW Liners Systems, Inc.
@ 4:00 PM

10/15/13



FACSIMILE COVER SHEET

SOUTHWEST LINER SYSTEMS, INC.

New Mexico License #358924 Type GF-03

301 CALLE INDUSTRIAL

DOL # 0160572010916

BERNALILLO, NEW MEXICO 87004

Arizona License # AE266-069

FEIN # 26-3460284

PHONE (505) 771-9122 FAX (505) 771-0138

TO: EXPO-NMATTN: KevinDATE: 10/7/2013FAX NUMBER: emailNUMBER OF PAGES 2 (INCLUDING COVER SHEET)

RE: Liner repair

Kevin,

Based on the pictures provided we can repair the liner at Expo NM for \$200.00 plus taxes if we don't have a NTTC on file for you. If you have any questions please give me a call. We have people available this week.

Mark DeCarlo

SENT BY: _____ DATE: _____ TIME: _____

Fannin, Kevin, EXPO

From: mark a decarlo [swls.md@gmail.com]
Sent: Monday, October 07, 2013 1:22 PM
To: Fannin, Kevin, EXPO
Subject: Re: EXPO NM Dam Liner Repair
Attachments: Expo NM repair Proposal.doc

Kevin,

See our attached proposal.

Mark

On Mon, Oct 7, 2013 at 11:44 AM, Fannin, Kevin, EXPO <Kevin.Fannin@state.nm.us> wrote:

Hello Mark – Attached is a photo of the penetration to the liner in the retention pond Dam here at Expo NM, as discussed. You can see from the photo that it has been temporarily repaired with industrial tape and will need to be repaired permanently. Please provide us with an estimate for repair. I understand SW Liners did the installation, but please let me know if you need any current information on Expo-NM. We can have a PO prepared quickly.

Thanks so much. Please call with any questions you may have.

Kevin Fannin

Special Projects

Expo-NM

300 San Pedro NE

Albuquerque NM 87108

(505) 222-9700

Cell: (505) 688-0208

kevin.fannin@state.nm.us

INVOICE NUMBER
INVOICE DATE

SW1370
10/21/2013

Remit to:

Southwest Liner Systems, Inc.**MAILING ADDRESS**

P. O. BOX 1972

BERNALILLO, NEW MEXICO 87004

(505)771-9122 Fax (505)771-0138

ACTUAL ADDRESS

301 CALLE INDUSTRIAL

BERNALILLO, NEW MEXICO 87004

Bill To:

EXPO NM SPECIAL PROJECTS**300 SAN PEDRO NE****ALBUQUERQUE, NM 87108****ATTN: KEVIN FANNIN**

Ship To:

EXPO NM

SHIPPED VIA		FOB POINT		DATE SHIPPED	OUR ORDER	FINAL/PARTIAL
BEST WAY		BERNALILLO, NM		N/A		Final
CREDIT TERMS		PURCHASE ORDER NUMBER		REMARKS		
NET 30 DAYS		1047				
ITEM	QUANTITY		DESCRIPTION		UNIT PRICE	TOTAL
NUMBER	ORDERED	SHIPPED				
1	1	1	Repair Dam liner damaged by a vechile backing into it.		200.00	200.00
			NTTC on file for Expo NM			
			A FINANCE CHARGE WILL BE CHARGED ON ALL OVERDUE BALANCES @ 1.5% PER MONTH			
TAXABLE SUBTOTAL					200.00	
NON-TAXABLE SUBTOTAL						
FREIGHT CHARGES						
INVOICE TOTAL					200.00	



The HENSLEY ENGINEERING GROUP

September 30, 2013

John Jaramillo
Expo NM
300 San Pedro NE
Albuquerque, N.M. 87108

Re: Dam Liner Evaluation – Liner Damage

John:

In response to your request, an inspection and evaluation of the CAFO retention structure at EXPO NM was performed on September 29, 2013. In accordance with NPDES Permit NMG01000, this evaluation is to certify the integrity of the liner after repair due to recent damage to the liner of the structure.

Damage to the liner was caused by a minor vehicle impact. A vehicle appurtenance penetrated the liner causing a tear of approximately 1 foot. The impact caused no damage to the underlying structure of the retention facility.

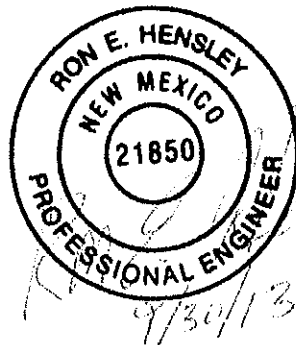
The workmanship and materials used for the repair are consistent with industry standards and guidelines and have provided finished product that meets the integrity requirements.

Therefore, the retention facility is in compliance with the NRCS specifications to inhibit water migration.

If there is any additional information that you feel should be provided or if you have any questions, please call.

Sincerely,

Ron E. Hensley P.E.





Form 11 - Pond Water Levels

The water level of ponds shall be measured weekly and documented in these records. The water level of each pond should also be documented when a precipitation event occurs or when pumping wastewater to the application area.

Date	Water Level	Inspector	Date	Water Level	Inspector
6/7/13	'-0"	kf	12/6/13	'-12"	kf
6/14/13	'-0"	kf	12/16/13	'-11"	kf
6/21/13	'-0"	kf		'- "	
6/28/13	'-0"	kf		'- "	
7/5/13	'-5"	kf		'- "	
7/12/13	'-8"	kf		'- "	
7/19/13	'-9"	kf		'- "	
7/26/13	'-11"	kf		'- "	
8/2/13	1'-10"	kf		'- "	
8/9/13	1'-11"	kf		'- "	
8/16/13	1'-10"	kf		'- "	
8/23/13	1'-9"	kf		'- "	
8/30/13	2'-1"	kf		'- "	
9/6/13	2'-4"	kf		'- "	
9/13/13	2'-9"	kf		'- "	
9/20/13	3'-1"	kf		'- "	
9/27/13	0'-0"	kf		'- "	
10/4/13	'-2"	kf		'- "	
10/11/13	'-2"	kf		'- "	
10/18/13	'-2"	kf		'- "	
10/25/13	'-8"	kf		'- "	
11/1/13	'-8"	kf		'- "	
11/8/13	'-12"	kf		'- "	
11/15/13	1'-1"	kf		'- "	
11/22/13	1'-1"	kf		'- "	
11/29/13	1'-1"	kf		'- "	

Note: Routine operation volume must be maintained at 4'6" level.

Pond Type:

Effluent and Storm water

List any significant spills of pollutants at the facility since date of operation:

[illegible]



FORM 14 - Structural Controls Inspection

The form shall be filled out with the indicated frequency for your permit. A checklist is provided to allow the user to answer questions about the condition of each cell of the pond and to document preventative maintenance activities as necessary.

Date: **Description**

Yes **No** **N/A**

-	-	—	Embankment of manure or wastewater impoundment free of visible seepage
-	-	—	Embankment of manure or wastewater impoundment showing no signs of cracking
-	-	—	Vegetation maintained on embankment following plan
-	-	—	Riprap or erosion controls in place (if required)
-	-	—	Erosion of exterior slope
-	-	—	Erosion of interior slope
✓	-	—	Irrigation system functional
-	-	—	Livestock entry prohibited (fenced)
-	-	—	Minimum freeboard (2')
-	-	—	Trees excluded within root zone distance
✓	-	—	Liquid level measuring device in place and functional
✓	-	—	Rain gauge in place and functional
✓	-	—	Irrigation system functional
✓	-	—	Storm water diversion devices free of seepage, cracking
✓	-	—	Runoff diversion structures free of seepage, cracking



- ☐ ☐ ☐ **Devices that channel storm water to an impoundment
free of seepage, cracking**
- ☐ ☐ ☐ **Water lines functional (including drinking or cooling water)**
- ☐ ☐ ☐ **Other**

Comments:

Signature: _____ **Title:** _____

Employee training is conducted, check the appropriate category(ies). Some employees may not need any training and some employee may not need training in all of these categories, based on employee job responsibilities. Check all that apply.

[illegible]

Appendix 8

Injunctive Relief Costs

EXPO CAFO Site Improvement Costs

Completed Improvements	Cost
Drain Inlet Plugging	3,629.00
Lagoon Design and Construction	116,792.77
Piping and Pumping System Design and Construction	72,423.68
Total	\$192,845.45
Permit Consulting Fees	59,543.59
Total	\$252,389.04

Appendix 9

Wastewater Flow Diagram

