

April 30, 2013

Patrick Kellam, Environmental Manager Nabors Completion and Production Services Co. 350 High Street Bradford, PA 16701

RE: Compliance Inspection (Crawford County)

AFIN: 17-00056 NPDES Permit No.: ARR000825

Dear Mr. Kellam:

On April 5, 2013, I performed a routine Industrial Stormwater compliance inspection of your facility in accordance with the provisions of the Federal Clean Water Act, the Arkansas Water and Air Pollution Control Act, and the regulations promulgated thereunder. This inspection revealed the following violations:

- 1. During the inspection, four additional outfalls were noted, two on the east side of the property and two on the south. Currently the facility is not authorized to discharge from these locations. This is a violation of Part 1.6 of the permit (Photos #1 through #6).
- 2. Samples were not collected during the January to June 2012 monitoring period. This is a violation of Part 3.5 of the permit.
- 3. Samples for Outfall #1 were not being collected from the monitoring point specified in the NOI. Samples for 2012 were collected near a drainage pipe by the concrete pad adjacent to the maintenance shop building. This is a violation of Part 3.6 of the permit (Photo #5).
- **4.** A Corrective Action Plan was not implemented for the benchmark exceedance of Total Suspended Solids (TSS) of 226 mg/L for the July to December 2011 monitoring period. **This is violation of Part 3.11.2 of the permit.**
- 5. The annual report for 2012 was not submitted to ADEQ by January 31, 2013. This is a violation of Part 3.12.3.b of the permit.
- **6.** The pH was not analyzed within 15 minutes of the time of the sample collection. **This is a violation of Part 3.7.2.d of the permit.**
- 7. The SWPPP does not contain the updated facility name and NAICS code. This is a violation of Part 4.6.1 of the permit.
- 8. The facility site map does not contain the size of the property in acres. This is a violation of Part 4.6.4.a of the permit.

- 9. A drainage pipe running from the concrete slab by the maintenance shop building to the property line is not shown on the site map. This is a violation of Part 4.6.4.f of the permit (Photos #5 and #6).
- **10.** The SWPPP does not include a section on risk identification and summary of potential pollutant sources. **This is a violation of Part 4.6.5.5 of the permit.**
- **11.** The SWPPP does not include a description of the best management practices (BMPs) that are used by the facility to eliminate or reduce the potential to contaminate stormwater. **This** is a violation of Part 4.6.6.1 of the permit.
- **12.** The SWPPP does not include a discussion on minimizing exposure. **This is a violation of Part 4.6.6.2 of the permit.**
- 13. Evidence of past spills was observed on the south side of the property along the fence line. This area had not been cleaned. This is a violation of Part 4.6.6.5 of the permit (Photos #5 and #6).
- **14.** The SWPPP does not contain a narrative on the management of run-on and runoff. **This is** a violation of Part 4.6.6.8 of the permit.
- **15.** A comprehensive site compliance evaluation was not completed for 2012. **This is a violation of Part 4.6.10.2 of the permit.**

Please submit a written response to these findings to the Water Division Inspection Branch of this Department. This response should be mailed to the address at the bottom of the first page of the letter or emailed to Water-Inspection-report@adeq.state.ar.us. This response should contain documentation describing the course of action taken to correct each item noted. This corrective action should be completed as soon as possible, and the written response with all necessary documentation (i.e. photos) is due by May 15, 2013

If I can be of any assistance, please contact me at 479-424-0331 or Coats@adeq.state.ar.us.

Sincerely,

Angela Coats

Ungla Couts

Oil & Gas Field Inspector

Water Division

cc: Heath Davis, Environmental Coordinator, Dorian. Davis @nabors.com

ADEQ Water NPDES Inspection AFIN: 17-00056 Permit #: ARR000825

Form Approved OMB No. 2040-0003 **€EPA** UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Washington, D.C. 20460 **NPDES Compliance Inspection Report** Section A: National Data System Coding NPDES Transaction Code Yr/Mo/Day Inspec. Type Fac. Type Inspector 5 R 2 **5** 11 12 **1** 18 \mathbf{C} S 2 Remarks Inspection Work Days Facility Evaluation Rating Reserved-70 72 80 69 75 Section B: Facility Data Name and Location of Facility Inspected (For industrial users discharging to POTW, also Permit Effective Date Entry Time/Date include POTW name and NPDES permit number) 1330 / April 5, 2013 November 28, 2011 Nabors Completion and Production Services Co. Exit Time/Date Permit Expiration Date 2802 Kibler Road 1500 / April 5, 2013 June 30, 2014 Van Buren, AR 72956 Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Other Facility Data **David Rose / Iron Supervisor** Jeremy Mauldin / Materials Supervisor Phone: 479-471-7467 Name, Address of Responsible Official/Title/Phone and Fax Number Michael J. Seyman, Vice President of Operations Contacted 350 High Street Bradford, PA 16701 No₩ Phone: 814-368-6228 Fax: 814-368-6231 Section C: Areas Evaluated During Inspection (S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated) \mathbf{U} Permit N Flow Measurement **Operations & Maintenance** Sampling М N M Records/Reports **Self-Monitoring Program** Sludge Handling/Disposal **Pollution Prevention Facility Site Review Compliance Schedules Pretreatment** Multimedia N **Storm Water Effluent/Receiving Waters** Other: Laboratory Section D: Summary of Findings/Comments (Attach additional sheets if necessary) Permit - Four additional outfalls were noted, two on the east side of the property and two on the south. Pollution Prevention - The SWPPP needs to be updated to include all required items. The comprehensive site compliance evaluation was not conducted for 2012. Sampling - Samples were not collected during the January - June 2012 monitoring period. Samples were not being collected from the location specified in the NOI or SWPPP. Samples were collected from an unpermitted area not representative of the entire facility. Samples for 2012 were collected by a drainage pipe by the concrete pad adjacent to the maintenance shop building at approximately 35.43512, -94.328412. The permitted outfall was not being monitored. The pH was not analyzed within 15 minutes of the time of the sample collection. Records/Reports - A corrective action plan for TSS was not created. Facility Site Review - Evidence of past spills was observed on the south side of the property along the fence line. This area had not been cleaned. One area of un-stabilized ground was noted during the inspection. This area was where the 2011 samples had been collected. The area should be stabilized to prevent any sediment from entering waters of the State. Name(s) and Signature(s) of Inspector(s) Agency/Office/Telephone/Fax April 23, 2013 Arkansas Department of Environmental Quality / Fort Smith lingla Couts Phone 479-424-0331 / Fax 479-424-0330 **Angela Coats** Agency/Office/Phone and Fax Numbers Signature of Reviewer Date Kerri McCabe ADEQ / NLR / 501-682-0642 April 30, 2013

Inspection Form Legend:

S = Satisfactory, M = Marginal, U = Unsatisfactory, Y = Yes, N = No, NI = Not Implemented, NE = Not Evaluated -	NA = Not Applicable,
If Y and a NI are check it means it is in the SWPPP but not implemented in the field wh	ich is a violation.
SECTION A: PERMIT VERIFICATION	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS	□S □M ☑U □NA □NE
1.CORRECT NAME AND MAILING ADDRESS OF PERMITTEE:	□Y ØN □NA □NE
2.NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES:	□y Øn □na □ne
3.NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT:	□y Øn □na □ne
4.ALL DISCHARGES ARE PERMITTED:	□Y ØN □NA □NE
Comments: Facility was originally permitted under "Superior Well Services, Inc." Four additional out	utfalls were noted, two on
the east side of the property and two on the south. Sampling from the permitted outfall location was	not occurring.
SECTION B: STORM WATER POLLUTION PREVENTION PLAN EVALUATION	
PERMITTEE SWPPP MEETS PERMIT REQUIRMENTS	□S ☑M □U □NA □NE
1. Is the SWPPP available for review by ADEQ? (Part 4.2)	☑Y □N □NI □NA □NE
2. Does the SWPPP contain facility name, general permit tracking number, facility physical address, and SIC and NAICS codes? (Part 4.6.1)	
3. Pollution Prevention Team	
A. Does the SWPPP identify specific individuals or positions?(Part 4.6.2)	ØY □N □NI □NA □NE
B. Does the SWPPP outline the responsibilities of each member of the Pollution Prevention Team? (Part 4.6.2)	☑Y □N □NI □NA □NE
4. Does the SWPPP contain a facility description (process diagram, general layout, storage of raw materials, the flow of goods and materials through the facility and seasonal variations)? (Part 4.6.3)	☑Y □N □NI □NA □NE
5. Does the facility site map contain the following items?	
A) The size of the property in acres? (Part 4.6.4.a)	□Y ☑N □NI □NA □NE
B) The location and extent of significant structures and impervious surfaces? (Part 4.6.4.b)	☑Y □N □NI □NA □NE
C) The direction of stormwater flow using arrows? (Part 4.6.4.c)	☑Y □N □NI □NA □NE
D) The locations of all existing structural control measures? (Part 4.6.4.d)	□Y □N □NI ØNA □NE
E) The locations of all receiving waters in the immediate vicinity of the facility? (Part 4.6.4.e)	☑Y □N □NI □NA □NE
F) The locations of all stormwater conveyances including ditches, pipes, and swales? (Part 4.6.4.f)	□Y ☑N □NI □NA □NE
G) The locations of potential pollutant sources? (Part 4.6.4.g)	☑Y □N □NI □NA □NE
H) The locations of all stormwater monitoring points? (Part 4.6.4.h)	☑Y □N ☑NI □NA □NE
 The locations of stormwater inlets and outfalls with unique identification code for each outfall with indications if one or more outfall is being treated as "substantially identical" and an approximate outline of the areas draining to each outfall? (Part 4.6.4.i) 	☑Y □N □NI □NA □NE
J) Where the stormwater discharges to municipal separate storm sewer system (MS4), if applicable? (Part 4.6.4.j)	□Y □N □NI ØNA □NE
K) The locations and descriptions of all non-stormwater discharges identified in the SWPPP? (Part 4.6.4.k)	□Y □N □NI ☑NA □NE
L) The locations of the following activities if they are exposed to precipitation? (Part 4.6.4.I)	☑Y □N □NI □NA □NE
Fueling Stations	□Y □N □NI ☑NA □NE
Vehicle and equipment maintenance and/or cleaning areas	☑Y □N □NI □NA □NE
Loading and unloading areas	☑Y □N □NI □NA □NE
Locations used for the treatment, storage, or disposal of waste	□Y □N □NI ØNA □NE
Liquid storage tanks	☑Y □N □NI □NA □NE
Processing and storage areas	☑Y □N □NI □NA □NE
Immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-byproducts used or created by the facility	☑Y □N □NI □NA □NE
Transfer areas for substances in bulk	□Y □N □NI ☑NA □NE
Machinery	□Y □N □NI ☑NA □NE
M) The locations and sources of run-on to the site from adjacent property that contains significant quantities of pollutants? (Part 4.6.4.m)	□Y □N □NI ØNA □NE
6. A description of potential pollutant sources	

 A) An inventory of industrial activities which have been or may potentially be sources of significant amounts of pollutants? (Part 4.6.5.1) 	ØY □N □NI □NA □NE
B) An inventory of all types of materials handled at the site that might potentially be exposed to precipitation? (Part 4.6.5.2)	☑Y □N □NI □NA □NE
C) A list of significant spills and significant leaks of toxic or hazardous pollutants that have occurred in	
areas exposed to precipitation or drained to a stormwater conveyance for three years prior to the effective date of the permit. (Part 4.6.5.3)	☑Y □N □NI □NA □NE
D) A summary of existing discharge sampling data (Part 4.6.5.4)	MY ON ON ONA ONE
E) Risk Identification and Summary of Potential Pollutant Sources (Part 4.6.5.5)	□Y ☑N □NI □NA □NE
7. Measures and Controls –SWPPP must describe how these are used.	
A) Best Management Practices (BMPs) (Part 4.6.6.1)	□Y ☑N □NI □NA □NE
B) Exposure Minimization (Part 4.6.6.2)	□Y ☑N □NI □NA □NE
C) Good Housekeeping (Part 4.6.6.3)	☑Y □N □NI □NA □NE
D) Preventative Maintenance (Part 4.6.6.4)	☑Y □N □NI □NA □NE
E) Spill Prevention and Response Procedures (Part 4.6.6.5)	☑Y □N □NI □NA □NE
F) Employee Training Procedures (Part 4.6.6.6)	□Y □N □NI □NA ☑NE
G) Erosion and Sediment Control (Part 4.6.6.7)	☑Y □N □NI □NA □NE
H) Management of Run-on and Runoff (Part 4.6.6.8)	□Y ☑N □NI □NA □NE
I) Additional Requirements for Salt Storage (Part 4.6.6.9)	□Y □N □NI ☑NA □NE
8. Authorized Non-stormwater Discharges (Part 4.6.7) – list must be in SWPPP	□Y □N □NI ☑NA □NE
9. Evaluations and Inspections (Part 4.6.10)	
A) Visual Site Inspections (minimum 4/year) (Part 4.6.10.1)	☑Y □N □NI □NA □NE
At least one visual inspection conducted during a rain event	□Y □N □NI □NA ☑NE
Inspections recorded and include: date of inspection, person doing inspection; major observations, and corrective actions required.	☑Y □N □NI □NA □NE
B) Comprehensive Site Compliance Evaluation (Annual) (Part 4.6.10.2)	□Y ØN □NI □NA □NE
Comments: SWPPP does not contain NAICS code and still refers to the facility as Superior Wel	Services, Inc. The
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AFIN: **17-00056**

Permit #: ARR000825

ADEQ Water NPDES Inspection

ADEQ Water NPDES Inspection	ADEQ Water NPDES Inspection AFIN: 17-00056 Permit #: A							
maintenance shop building at approximately	35.43512, -94.328412. The permitte	d outfall was not bein	ig monitored. The pH					
was not analyzed within 15 minutes of the time	ne of the sample collection.							
SECTION D: RECORD KEEPING AND	REPORTING							
PERMITTEE RECORD KEEPING AND REP	ORTING MEETS PERMIT REQUIRM	//ENTS □	S ☑M □U □NA □NE					
1. Have DMRs for the previous year of monitoring b 3.12.3.a)	e file? (Part	ÍY □N □NI □NA □NE						
Are the DMRs properly completed?	\square	ÍY □N □NI □NA □NE						
Does the permittee have copies of lab reports a	and chain of custody records?		Y □N □NI □NA ØNE					
Are the appropriate records of the measureable	e storm event and sampling being kept? (P	art 3.7.2.e)	ÍY □N □NI □NA □NE					
2. Has a copy of the annual comprehensive evaluati (Part 3.12.3.b)	on been submitted to the agency and is a c	opy on file?	IY ⊠N □NI □NA □NE					
3. Is permittee keeping copies of inspections and co	orrective actions on file? (Part 4.6.10.1)		IY ⊠N □NI □NA □NE					
4. Are copies of training records being kept on file?	(Part 4.6.6.6)		IY □N □NI □NA ØNE					
5. Is there a list of significant spills and leaks being	maintained? (Part 4.6.5.3)	Ø	ÍY □N □NI □NA □NE					
Comments: A corrective action plan has no	been implemented and kept on file.	<u> </u>						
SECTION E: FACILITY TOUR								
PERMITTEE FACILITY TOUR MEETS PERI	MIT REQUIRMENTS		S ☑M □U □NA □NE					
1. Any evidence of spills or leaks that have not been	n properly cleaned up as required by the SV	NPPP? ☑	ÍY □N □NI □NA □NE					
2. Any evidence of erosion or un-stabilized ground?		Ø	ÍY □N □NI □NA □NE					
3. Any controls, structures, or storage areas that are	e not as identified in the SWPPP?		Y ⊠N □NI □NA □NE					
4. Any non-stormwater discharges not identified in	of allowable	Y MN ONI ONA ONE						

Comments: Evidence of past spills was observed on the south side of the property along the fence line. This area had not been cleaned. One area of un-stabilized ground was noted during the inspection. This area was where the 2011 samples had been collected. The area should be stabilized to prevent any sediment from entering waters of the State.

5. Any non-stormwater discharges that are not allowed under this permit? (see Part 1.7 of permit for list of

allowable non-stormwater discharges)

6. Are BMPs being properly operated and maintained? (Part 6.1)

7. Are housekeeping procedures being implemented and are they sufficient?

□Y ☑N □NI □NA □NE

□Y □N □NI ☑NA □NE

□Y ☑N □NI □NA □NE

	Water Division NPDES Photographic Evidence Sheet									
Location:	Na	abors Completion and Production Services Co.; located at 2802 Kibler Road, Van Buren, AR								
Photographo	er:	r: Angela Coats			Witness:	None				
Photo #	1	Of	8		Date:	4/5/13	Time:	1336		
Description: Outfalls noted on the east side of the facility (view to northeast).										



Photograph	ner:	Angela	Coats	Witness:	None		
Photo #	2	Of	8	Date:	4/5/13	Time:	1338

Description: Outfalls noted on the east side of the facility (view to southeast).



	Water Division NPDES Photographic Evidence Sheet								
Location:	Location: Nabors Completion and Production Services Co.; located at 2802 Kibler Road, Van Buren, AR								
Photographer: Angela Coats			Coats		Witness:	None			
Photo #	3	Of	8		Date:	4/5/13	Time:	1348	

Description: Outfall on facility's south fence line (view to south).



Photograph	ner:	Angela	Coats	Witness:	None		
Photo #	4	Of	8	Date:	4/5/13	Time:	1348

Description: Outfall on facility's south fence line (view to north).



	Water Division NPDES Photographic Evidence Sheet									
Location:	Location: Nabors Completion and Production Services Co.; located at 2802 Kibler Road, Van Buren, AR									
Photograpl	ner: Angela Coats Witness: None		None							
Photo #	:	5 (Of	8		Date:	4/5/13	Time:	1350	
Description	ı:	fen	Location of where the 2012 samples were taken. Drainage pipe to bottom right discharges at the fence line. Sampling from this area is not representative of the entire facility's stormwater runoff.							



Photograph	ner:	Angela	a Coats		Witness:	S: None			
Photo #	6	Of	8		Date:	4/5/13 Time: 1348			
Description	ı :	Discharge from pipe that originates by concrete slab in previous photo. This discharge is not							

permitted.



	Water Division NPDES Photographic Evidence Sheet									
Location:	Na	Nabors Completion and Production Services Co.; located at 2802 Kibler Road, Van Buren, AR								
Photographo	er: Angela Coats			Witness:	None					
Photo #	7	Of	8		Date:	4/5/13	Time:	1345		
Description: Evidence of a past spill not cleaned along the south fence line.										



Photograph	ner: A	Angela	Coats	Witness:	None		
Photo #	8	Of	8	Date:	4/5/13	Time:	1345

Description: Closer view of the stained ground along the fence line.



	Inspection

AFIN: **17-00056**

Permit #: **ARR000825**

Oil & Gas Violation Summary Sheet

	No Violations Noted
	Placing Waste
$ \overline{\checkmark} $	Permitting Issues
\checkmark	Spills & Leaks
	Turbidity, Sedimentation, etc. (Regulation #2 Violations)
	Stormwater &/or Erosion Issues
	Notification/Reporting Violations
	Unpermitted Discharges
\checkmark	Record Keeping/Paperwork Violations
	Trash/Unauthorized Fluids in Pits
	Improper Closure of Pit
	Insufficient Freeboard
	Poor Pit Construction
	Other (Describe):

Schaeffer, Karla

From:

McCabe, Kerri

Sent:

Thursday, May 16, 2013 10:29 AM

To: Cc: Schaeffer, Karla Coats, Angela

Subject:

FW: 075049 - Request for Extension - AFIN 17-00056 - Nabors Completion &

Production Services ~COR-075049~

Karla,

When you get back, please add this to PDS# 071335/ WID 11236. I've adjusted Angela's Tracker to extend the date. Thank you!

Kerri McCabe

ADEQ—North Little Rock Office Water Division Field Services Branch Inspector Supervisor

mccabe@adeq.state.ar.us

Office Location: 5th Floor (5W37)

Office: 501.682.0642 Cell: 501.352.5641

Fax: 501.682.0880 (address to Kerri McCabe)

From: Cusick, Daniel [mailto:dcusick@craworld.com]

Sent: Thursday, May 16, 2013 10:23 AM

To: Coats, Angela Cc: McCabe, Kerri

Subject: Re: 075049 - Request for Extension - AFIN 17-00056 - Nabors Completion & Production Services ~COR-

075049~

Thank you Ms. Coats.

Daniel P. Cusick, P.G.
Conestoga-Rovers and Associates
103 Gamma Drive Ext., Suite 110
Pittsburgh, PA 15238
412-963-7313 tele
412-327-0863 mobile

From: Coats, Angela [mailto:COATS@adeq.state.ar.us]

Sent: Thursday, May 16, 2013 11:20 AM

To: Cusick, Daniel

Cc: McCabe, Kerri < MCCABE@adeq.state.ar.us>

Subject: RE: 075049 - Request for Extension - AFIN 17-00056 - Nabors Completion & Production Services ~COR-

075049~

I will change your response due date to May 31, 2013.

Thanks,

Angela Coats

ADEQ Inspector Water Division Fort Smith Field Office Office: 479-424-0331

Cell: 501-454-3139

From: Cusick, Daniel [mailto:dcusick@craworld.com]

Sent: Wednesday, May 15, 2013 9:28 AM

To: Coats, Angela

Subject: 075049 - Request for Extension - AFIN 17-00056 - Nabors Completion & Production Services ~COR-075049~

Ms. Coats:

Due to business travel, the attached document with noted violations from an inspection was just received by the client. Unfortunately the due date for corrective actions is noted in the letter as today. Therefore, on behalf of Nabors Completion & Production Services (NCPS), we are respectfully requesting an extension for submittal of the corrective actions and revised documents. The due date requested is May 31, 2013.

Please respond to this email as your formal approval of this request.

Thank you for your consideration and cooperation.

Best regards,

DANIEL P. CUSICK, P.G.

CONESTOGA-ROVERS & ASSOCIATES (CRA)

103 Gamma Drive Extension., Suite 110

Pittsburgh, Pennsylvania 15238

(412) 963-7313 (office)

(412) 963-7314 (fax)

(412) 327-0863 (cell)

Email: dcusick@CRAworld.com

www.CRAworld.com

Think before you print

Perform every task the safe way, the right way, every time!

Schaeffer, Karla

From:

McCabe, Kerri

Sent:

Friday, May 31, 2013 4:51 PM

To:

Schaeffer, Karla

Cc:

Coats, Angela

Subject:

FW: 075049 - Nabors Completion & Production Services - Van Buren, AR

Attachments:

075095-RPT-1 Rev1.pdf; 075095COAT-001-053113.pdf

Karla,

Please attach the following response(s) to Angela's report.

Angela, provide the WID for Karla is it isn't somewhere on the report. Thank you!

Kerri McCabe Inspector Supervisor

ADEQ Water Division Field Services Branch 1-501-682-0642 (office)

From: Cusick, Daniel [dcusick@craworld.com]

Sent: Friday, May 31, 2013 2:29 PM

To: Coats, Angela; Water-Inspection-Report Cc: McCabe, Kerri; Kellam, Patrick; Davis, Doran

Subject: 075049 - Nabors Completion & Production Services - Van Buren, AR

Ms. Coats:

Attached, please find the Corrective Action/Response letter on behalf of Nabors Completion & Production Services Co. (NCPS) for the violations noted for their facility in Van Buren, AR. A revised Storm Water Pollution Prevention Plan (SWPPP) is also included which addresses modification and amendments made for the facility and corrective actions. A hard copy of each will be delivered to your attention on Monday, June 3, 2013. Please let us know if you have any questions or concerns during your review.

Thank you again for the extension and your cooperation in moving forward with environmental compliance at this facility.

Have a great weekend.

Best regards,

DANIEL P. CUSICK, P.G. CONESTOGA-ROVERS & ASSOCIATES (CRA) 103 Gamma Drive Extension., Suite 110 Pittsburgh, Pennsylvania 15238 (412) 963-7313 (office)

(412) 963-7314 (fax)

(412) 327-0863 (cell)

Email: dcusick@CRAworld.com/blocked::mailto:dcusick@CRAworld.com/

www.CRAworld.com
blocked::http://www.craworld.com/>

Think before you print P

Perform every task the safe way, the right way, every time!

From: Coats, Angela [mailto:COATS@adeq.state.ar.us]

Sent: Thursday, May 16, 2013 11:21 AM

To: Cusick, Daniel

Subject: RE: 075049 - Request for Extension - AFIN 17-00056 - Nabors Completion & Production Services ~COR-075049~

I will change your response due date to May 31, 2013.

Thanks,

Angela Coats ADEQ Inspector Water Division Fort Smith Field Office Office: 479-424-0331 Cell: 501-454-3139

From: Cusick, Daniel [mailto:dcusick@craworld.com]

Sent: Wednesday, May 15, 2013 9:28 AM

Subject: 075049 - Request for Extension - AFIN 17-00056 - Nabors Completion & Production Services ~COR-075049~

Ms. Coats:

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Please respond to this email as your formal approval of this request.

Thank you for your consideration and cooperation.

Best regards,

DANIEL P. CUSICK, P.G. CONESTOGA-ROVERS & ASSOCIATES (CRA) 103 Gamma Drive Extension., Suite 110 Pittsburgh, Pennsylvania 15238

(412) 963-7313 (office)

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Email: dcusick@CRAworld.com/

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blocked::http://www.craworld.com/>

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Perform every task the safe way, the right way, every time!



103 Gamma Drive Extension, Suite #110 Pittsburgh, Pennsylvania 15238

Telephone: (412) 963-7313 Fax: (412) 963-7314

www.CRAworld.com

May 31, 2013 Reference No. 075095

Ms. Angela Coats
Oil & Gas Field Inspector
Water Division
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, Arkansas 72118-5317

Dear Ms. Coats:

Re: Corrective Actions for Compliance Inspection

Permit Number ARR000825

AFIN: 17-00056

Nabors Completion and Production Services Co.

2802 Kibler Road

Van Buren, Arkansas 72956

INTRODUCTION

On behalf of Nabors Completion and Production Services Co. (NCPS), this letter is in response to the Arkansas Department of Environmental Quality (ADEQ) Industrial Stormwater Compliance Inspection performed on April 5, 2013. The results and violations noted during the inspection were detailed in a letter dated April 30, 2013. The facility has been issued a National Pollutant Discharge Elimination System (NPDES) Permit No. ARR000825 (the Permit). The ADEQ comments regarding the stormwater inspection, and the comments and/or corrective actions to mitigate these concerns are addressed in the remainder of this letter.

VIOLATIONS AND RESPONSES

ADEQ Comment No. 1: During the inspection, four additional outfalls were noted, two on the east side of the property and two on the south. Currently the facility is not authorized to discharge from these locations. This is a violation of Part 1.6 of the permit.

NCPS Response No. 1: Only one outfall was identified during the inspection for the Notice of Intent (NOI) submitted for the Permit. The four additional outfall locations (Outfalls 002 through 005) have been identified and will be sampled in accordance with the Permit requirements. Figure 2 in the revised Storm Water Pollution Prevention Plan (SWPPP) shows the five outfall locations. Please advise if ADEQ is requiring a Notice of Intent (NOI) for submittal to add these outfalls.

Equal Employment Opportunity Employer





May 31, 2013 2 Reference No. 075095

ADEQ Comment No. 2: Samples were not collected during the January to June 2012 monitoring period. This is a violation of Part 3.5 of the permit.

NCPS Response No. 2: Samples were not collected in error during this semiannual period. Sample collection and monitoring will be conducted semiannually in accordance with the Permit frequency.

ADEQ Comment No. 3: Samples for Outfall #1 were not being collected from the monitoring point specified in the NOI. Samples for 2012 were collected near a drainage pipe by the concrete pad adjacent to the maintenance shop building. This is a violation of Part 3.6 of the permit (Photo #5).

NCPS Response No. 3: NCPS personnel will be retrained on where to collect samples from all outfall locations.

ADEQ Comment No. 4: A Corrective Action Plan was not implemented for the benchmark exceedance of Total Suspended Solids (TSS) of 226 milligrams/Liter (mg/L) for the July to December 2011 monitoring period. This is violation of Part 3.11.2 of the permit.

NCPS Response No. 4: NCPS has installed sediment controls to reduce solids from entering the storm water discharge. Section 5.5 of the revised SWPPP details the corrective actions implemented. As a corrective action for the TSS exceedance, NCPS has installed silt/sediment barriers along the eastern property boundary in an effort to reduce solids from run-off. The barriers (e.g., silt fence and/or silt socks) will be adjusted as needed based on the analytical results for the Outfall sampling.

ADEQ Comment No. 5: The annual report for 2012 was not submitted to ADEQ by January 31, 2013. This is a violation of Part 3.12.b of the permit.

NCPS Response No. 5: In error, NCPS did not submit the report before January 31, 2013 and submitted it late. NCPS will ensure that all future reporting is submitted within the Permit schedule requirements.

ADEQ Comment No. 6: The pH was not analyzed within 15 minutes of the time of the sample collection. This is a violation of Part 3.7.2.d of the permit.



May 31, 2013 3 Reference No. 075095

NCPS Response No. 6: Nabors has purchased a pH meter that will be used to measure the pH of the storm water samples within 15 minutes of sample collection.

ADEQ Comment No. 7: The SWPPP does not contain the updated facility name and NAICS code. This is a violation of Part 4.6.1 of the permit.

NCPS Response No. 7: The SWPPP has been revised to include this information. Please see Section 3.0 for the information.

ADEQ Comment No. 8: The facility site map does not contain the size of the property in acres. This is a violation of Part 4.6.4.a of the permit.

NCPS Response No. 8: The facility site map has been revised to include this information and is included as Figure 2 in the revised SWPPP. The property is approximately 5.2 acres.

ADEQ Comment No. 9: A drainage pipe running from the concrete slab by the maintenance shop building to the property line is not shown on the site map. This is a violation of Part 4.6.4.f of the permit (Photos #5 and #6).

NCPS Response No. 9: The drainage pipe has been added to the facility site map included as Figure 2 in the SWPPP. The drainage pipe is not a permitted sample outfall and will not be sampled.

ADEQ Comment No. 10: The SWPP does not include a section on risk identification and summary of potential pollutant sources. This is a violation of Part 4.6.5.5 of the permit.

NCPS Response No. 10: Section 5.3 in the revised SWPPP includes this information.

ADEQ Comment No. 11: The SWPPP does not include a description of the BMPs that are used by the facility to eliminate or reduce the potential to contaminate storm water. This is a violation of Part 4.6.6.1 of the permit.

NCPS Response No. 11: The SWPPP has been revised to include this information. Please see Section 6.1.1.



May 31, 2013 4 Reference No. 075095

ADEQ Comment No. 12: The SWPPP does not include a discussion on minimizing exposure. This is a violation of Part 4.6.6.2 of the permit.

NCPS Response No. 12: The SWPPP has been revised to include this information. Please see Section 6.0.

ADEQ Comment No. 13: Evidence of past spills was observed on the south side of the property along the fence line. This area had not been cleaned. This is a violation of Part 4.6.6.5 of the permit (Photos #5 and #6)

NCPS Response No. 13: This area has been cleaned by NCPS and will not affect future storm water discharge. NCPS contracted Hubbs Construction (Hubbs) to excavate an area of oil-stained gravel on April 22, 2013. Hubbs removed stained gravel to a depth ranging from approximately 0.2 to 0.7 feet below existing grade. One composite sample was collected for disposal characterization using Toxicity Characteristic Leaching Procedures (TCLP). The TCLP results indicated the sample was non-hazardous and the gravel/soil was disposed of off-Site at a licensed disposal facility. The analytical results are included as Attachment A. The area was backfilled with clean gravel. Photographic documentation is included as Attachment B.

ADEQ Comment No. 14: The SWPPP does not contain a narrative on the management of run-on and runoff. This is a violation of Part 4.6.6.8 of the permit.

NCPS Response No. 14: The SWPPP has been revised to include this information. Please see Section 7.2.

ADEQ Comment No. 15: A comprehensive site compliance evaluation was not completed for 2012. This is a violation of Part 4.6.10.2 of the permit.

NCPS Response No. 15: A comprehensive site compliance evaluation will be completed for 2013 and each subsequent year in accordance with the Permit. NCPS personnel will be retrained in procedures for completing the compliance evaluation.



May 31, 2013 5 Reference No. 075095

CLOSING

A copy of the revised SWPPP has been included with this letter and addresses the violations noted in the April 5, 2013 inspection.

We trust that the aforementioned responses and revised SWPPP address ADEQ's concerns and the violations reported in the April 30, 2013 letter. If you have any questions or require additional information, please contact me at (412) 963-7313.

Respectfully submitted,

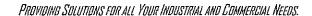
Daniel P. Cusick, P.G. (1)

1) Licensed in PA, S.C., MO, and IN

DPC/ro/01 Encl.

c.c. Mr. Patrick Kellam – NCPS (electronic copy) Mr. Heath Davis – NCPS (electronic copy)

ATTACHMENT A ANALYTICAL RESULTS





New Construction Buildings Millwright Maintenance Concrete Project Management

May 7, 2013

Nabors Daniel Roberson 28th Street Van Buren, AR 72956

Gravel Lot Cleanup

Scope of Work

After taking soil samples of affected areas of gravel lot and receiving tests results showing material to be at acceptable limits for disposal/use (see attached), we propose the following as a course of action for clean-up/grading of gravel lot.

- 1. Excavate affected areas to a depth required for removal of "soiled" gravel (2"-8")
- 2. Haul-ff and disposal of excavated materials (local dumping)
- 3. Placement of new 3.5"-5.5" rock base in excavated areas to bring to proper grade
- 4. Placement of gravel base over top of areas to tie in existing lot areas for proper drainage.

If this course of action is not acceptable for our needs, please let us know and we can discuss other methods that will meet your specific needs.

Thank You,

Cameron Hubbs

President, Cameron Hubbs Const. inc.



May 1, 2013 Control No. 166884 Page 1 of 5

Data Testing, Inc. ATTN: Ms. Dolores Shelby Post Office Box 1507 Fort Smith, AR 72902

This report contains the analytical results and supporting information for the sample submitted on April 25, 2013. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.

Deputy Laboratory Director

This document has been distributed to the following:

PDF cc: Data Testing, Inc.

ATTN: Ms. Dolores Shelby testing@mwc-engr.com

FAX NO. 4796498486



May 1, 2013 Control No. 166884 Page 2 of 5

Data Testing, Inc. Post Office Box 1507 Fort Smith, AR 72902

SAMPLE INFORMATION

Project Description:

One (1) soil sample(s) received on April 25, 2013

Receipt Details:

A Chain of Custody was provided. The samples were delivered in one (1) ice chest. Ice chest #1 was delivered with shipping documentation.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

etiliare innitial			Blake e
Laboratory ID	Client Sample ID	Sampled Date/Time	Notes
Laudialdiy to		20 4 - 2040 0000	-
166884.1	Cameron Hubbs Construction 4-22 0930	22-Apr-2013 0930	1

Notes:

Sample container did not meet regulatory requirement 1.

Qualifiers:

Result is from a secondary dilution factor

Analysis of soils/sludges are reported on a dry-weight basis unless otherwise specified.

References:

"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).

"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.

"Standard Methods for the Examination of Water and Wastewaters", 21st edition.

"American Society for Testing and Materials" (ASTM).

"Association of Analytical Chemists" (AOAC).



Data Testing, Inc. Post Office Box 1507 Fort Smith, AR 72902 May 1, 2013 Control No. 166884 Page 3 of 5

ANALYTICAL RESULTS

AIC No. 166884-1 Sample Identification: Cameron Hubbs Construction 4-22 0930

	alliaton Lubba Constinction 4-2	Result	RL	Units	Qualifier
Analyte Total Solids SM 2540 G	Prop: 26-Apr-2013 1026 by 302	90	0.01 pr-2013 0858 by 302	% Batch: W43368	
TCLP: Solids	,	100 Analyzed: 25-Ap	0.5 or-2013 1630 by 100	% Batch: \$34384	
TCLP: Arsenic	Prep: 26-Apr-2013 1207 by 270	< 0.3	0.3	mg/)	D
EPA 3010A, 6010C		Analyzed: 26-A	pr-2013 1817 by 305	Bat ch: \$34515	Dil: 5
TCLP: Barium	Prep: 26-Apr-2013 1207 by 270	0.51	0.01	mg/l	D
EPA 3010A, 6010C		Analyzed: 26-A	pr-2013 1817 by 305	Batch: S34515	Dil: 5
TCLP: Cadmium	Prep: 26-Apr-2013 1207 by 270	< 0.02	0.02	mg/l	D
EPA 3010A, 6010C		Analyzed: 26-A	pr-2013 1817 by 305	Batch: \$34615	Dil: 5
TCLP: Chromium	Prep: 26-Apr-2013 1207 by 270	< 0.04	0.04	ញជួ/l	D
EPA 3010A, 6010C		Analyzed: 26-A	pr-2013 1817 by 305	Balch: 834515	Dil: 6
TCLP: Lead	Prep: 26-Apr-2013 1207 by 270	< 0,2	0.2	mg/l	D
EPA 3010A, 6010C		Analyzed; 26-A	pr-2013 1817 by 305	Batch: S34515	Dil: 5
TCLP: Selenium	Prep: 26-Apr-2013 1207 by 270	< 0.4	0.4	mg/l	D
EPA 3010A, 6010C		Analyzed: 26-A	pr-2013 1817 by 305	Batch: 534515	Díl: 5
TCLP: Silver	Prep: 26-Apr-2013 1207 by 270	< 0.04	0.04	mg/l	D
EPA 3010A, 6010C		Analyzed: 26-A	pr-2013 1817 by 305	Batch: 634515	Dil: 6
TCLP: Mercury EPA 7470A	Prep: 26-Apr-2013 1208 by 270	< 0.008	0,008 Apr-2013 1806 by 271	mg/l Batch: 534516	D Dil: 40
Total Petroleum Hydrod		210	36 Apr-2013 0814 by 295	mg/Kg Batch: 88312	



Data Testing, Inc. Post Office Box 1507 Fort Smith, AR 72902 May 1, 2013 Control No. 166884 Page 4 of 5

DUPLICATE RESULTS

Analyte		AIC No.	Rosult	RPD	RPD Limit	Preparation Date	Analysis Date	DII Qual
Total Petroleum Hydrocarbons	Batch; 98312	166884-1 Duplicate	210 mg/Kg 240 mg/Kg	13.6	34.0		30Apr13 0814 by 285 30Apr13 0814 by 205	
Total Solids	Batch: W43358	166903-1 Duplicate	1.3 % 1.3 %	0.613	10.0		30April 0858 by 302 30April 0858 by 302	

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date 28April 1802 by 305	וום	Qual
TCLP: Arsenic	6 mg/l	108	85.D-115			S34515	28Apr13 1207 by 270	•		
TCLP: Barium	0,5 mg/l	105	85.0-115			S34516	26Apr13 1207 by 270	28Apr13 1802 by 305		
TCLP: Cadmium	5 mg/l	102	85.0-115			S34515	26Ap;13 1207 by 270	26Apr13 1802 by 305		
TCLP: Chromium	0.5 mg/l	101	85.0-115			S34515	28Apri3 1207 by 270	26Aprt3 1802 by 305		
TCLP: Lead	5 mg/l	101	85.0-115			834515	26Apr13 1207 by 270	26Apr13 1602 by 305		
TCLP: Selenium	5 mg/i	105	85,0-116			S34515	26Apr13 1207 by 270	26Apr13 1802 by 305		
TCLP: Silver	0.1 mg/l	92.8	85.0-115			834515	28Apr13 1207 by 270	28Apr13 1802 by 305		
TCLP: Mercury	0.0025 mg/l	86.2	85.0-115			834516	26Apr13 12DB by 270	30Apr13 1743 by 271		
Total Petroleum Hydrocarbons	400 mg/Kg 400 mg/Kg	98.0 98.0	91.3-104 91.3-104	00.0	20.0	B8312 B8312		20Apr13 0814 by 295 30Apr13 0814 by 295		



Data Testing, Inc. Post Office Box 1507 Fort Smith, AR 72902 May 1, 2013 Control No. 166884 Page 5 of 5

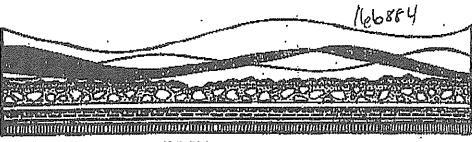
MATRIX SPIKE SAMPLE RESULTS

Analyte TCLP: Arsenic	Sample Spike Sample Amount 166884-1 5 mg/l	% 106 106	Limita 76.0-125 75.0-125	Batch \$34515 \$34515	Preparation Date 28April 1207 by 270 28April 1207 by 270	Analysis Dato 26Apr13 1807 by 305 26Apr13 1812 by 305	DII 5 5	Qual D D D
TCLP: Barlum	Relative Percent Difference: 158684-1 0.5 mg/l 156884-1 0.5 mg/l Relative Percent Difference:	0.129 101 100 0.523	20.0 75.0-125 75.0-125 20.0	\$34515 \$34515 \$34515 \$34515	26Apr13 1207 by 270 26Apr13 1207 by 270	26Apr13 1807 by 305 26Apr13 1812 by 305	5 5	Ф О
TCLP: Cadmium	166884-1 6 mg/l 166884-1 5 mg/l Relative Percent Difference:	95,6 95,8 0,193	75.0-125 75.0-125 20.0	S34515 S34515 S34515	26Apr13 1207 by 270 26Apr13 1207 by 270	26Apr13 1612 by 305 26Apr13 1612 by 305	5 ទ	D D D
TCLP: Chromium	166884-1 0,5 mg/l 166884-1 0,5 mg/l Relative Percent Difference:	99.9 99.7 0,205	76.0-125 75.0-125 20.0	\$34515 \$34515 \$34515	28Apr13 1207 by 270 28Apr13 1207 by 270	26Apr13 1807 by 305 26Apr13 1812 by 305		а С
TCLP: Lead	168884-1 5 mg/l 166884-1 5 mg/l Relative Percent Difference:	97.4 97.6 D.217	75.0-125 75.0-126 20.0	S34515 S34515 S34515	26Apr13 1207 by 270 26Apr13 1207 by 270	26Apr13 1807 by 305 26Apr13 1812 by 305	5 5	0
TCLP: Selenium	166884-1 5 mg/l 166884-1 5 mg/l Relative Percent Difference:	106 107 0,281	75.0-125 76.0-125 20.0	\$34515 \$34515 \$34515	26Apri3 1207 by 270 26Apri3 1207 by 270	28Apr13 1807 by 305 26Apr13 1812 by 305		D D
TCLP; Silver	166884-1 0.1 mg/l 166884-1 0.1 mg/l Relative Percent Difference:	89.4 89.6	75,0-125 75.0-125 20.0	S34515 S34515 S34515	28Apr13 1207 by 270 28Apr13 1207 by 270	26Apr19 1607 by 305 26Apr19 1612 by 304		0
TCLP: Meroury	166884-1 0.0025 mg/l 166884-1 0.0025 mg/l Relative Percent Difference	86.5 89.6	70.0-130 70.0-130 20.0	834516 834516 834516	26Apr13 1208 by 270 26Apr13 1208 by 270	30Apr13 1749 by 271 30Apr13 1753 by 271	40 40	D D

LABORATORY BLANK RESULTS

	Result	RL	PQL.	QC Sample	Proparation Date	Analysis Date	Qual
Analyto		0.01	0.01	W43368-1	26Apr13 1927 by 302	3DAPF13 0858 by 302	
Total Solids	< 0.01 %			• • • • • • • • • • • • • • • • • • • •			
TCLP: Arsenic	< 0.05 mg/l	0. 05	0.05	S34515-1			
TCLP: Barium	< 0.002 mg/l	0.002	0.002	\$34516-1	26Apr13 1207 by 270		
		0.004	0.004	\$34815-1	28Aor13 1207 by 270	28Apr13 1754 by 305	
TCLP; Çadmium	< 0.004 mg/j			534515-1		26Apr13 1754 by 305	
TCLP: Chromium	< 0.007 mg/l	0,007	0,007				
TCLP: Lead	< 0.04 mg/l	0.04	0.04	\$34515-1	•	28Apr13 1754 by 305	
,	< 0.07 mg/l	0.07	0.07	S34515-1	26Apr13 1207 by 270	26Apr13 1754 by 305	
TCLP: Selenium	· ••	0.007	0.007	\$34515-1	26Apr 13 1207 by 270	28April3 1754 by 305	
TCLP: Silver	< 0.007 mg/l				28Apr13 1208 by 270	•	
TCLP: Mercury	< 0,¢002 mg/l	0.0002	0.00 02	\$34516-1	SOMBLID ISOUR DA TER	· · ·	
Total Petroleum Hydrocarbons	< 32 mg/Kg	32	32	B8312-1		30Apr13 0814 by 295	





CHAIN OF CUSTODY RECORD

				_		·			
Sample Identification	Date	Time	Sample Comp.	Type Grab	Presex- vative		Number	Analysis Requ	ired .
Cameronflobs	442			1	1ce	0	1	£	
Construction								TCLPME As.Bi.Cd.	Cr.Pa
								Hy. Se, Ag	
								.UOH	Time
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ethod of Shipment	: <i>Vi</i>	05 ((24)	17.1	HORAS	<u> </u>	171856		

ATTACHMENT B

PHOTOGRAPHS



Photo 1: View of remediation conducted for oil-stained gravel in Southern portion of Facility. Backfilled after excavated (Note: ADEQ, Item No. 13).



Photo 2: View of final grade and backfill for excavated oil-stained gravel in Southern portion of Facility (Note: ADEQ Item No. 13).

SITE PHOTOGRAPHS



Photo 3: View looking west for remediation conducted in Southern portion of the Facility.

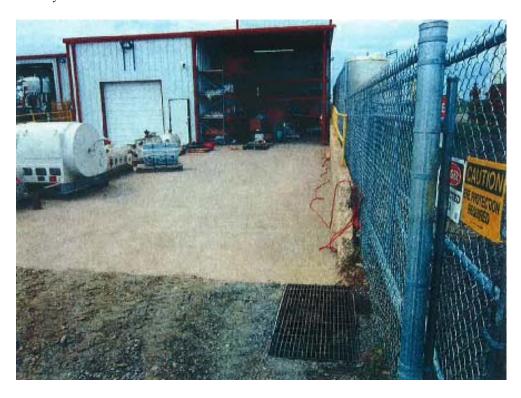


Photo 4: Catch basin with 4-inch diameter pipe at the end of the concrete driveway for the Maintenance Shop Building.

SITE PHOTOGRAPHS



Photo 5: Fill and grading to control storm water flow at the end of the driveway for the Maintenance Shop Building.



Photo 6: Fill and grade in center of the Property to influence proper drainage.

SITE PHOTOGRAPHS





REPORT

Storm Water Pollution Prevention Plan

Prepared for: Nabors Completion & Production Services, Inc.

Conestoga-Rovers & Associates 103 Gamma Drive Ext., Suite 110 Pittsburgh, Pennsylvania 15238

May 2013 • #075095-Rev. 1 Report Number:1



STORM WATER POLLUTION PREVENTION PLAN NABORS COMPLETION AND PRODUCTION SERVICES CO. 2802 KIBLER ROAD VAN BUREN, ARKANSAS

PERMIT NO. ARR000000 PERMIT TRACKING NO. ARR000825

Prepared For: Nabors Completion and Production Services Co. Houston, Texas

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i

LIST OF FIGURES (Following Text)

FIGURE 1 SITE LOCATION MAP

FIGURE 2 SITE PLAN

LIST OF APPENDICES

APPENDIX A CERTIFICATIONS

- CERTIFICATION OF STORM WATER POLLUTION PREVENTION PLAN
- CERTIFICATION OF NON-STORM WATER DISCHARGES

APPENDIX B FORMS

- RECORD OF REVIEWS AND AMENDMENTS
- COMPREHENSIVE SITE COMPLIANCE EVALUATION REPORT
- STORM WATER INSPECTION REPORT
- RELEASE NOTIFICATION FORM

APPENDIX C CHEMICAL INVENTORY LIST

APPENDIX D BENCHMARK ANALYTICAL DATA

1.0 INTRODUCTION

This document constitutes the Storm Water Pollution Prevention Plan (SWPPP or Plan) for the Nabors Completion and Production Services Co. (NCPS) facility located at 2802 Kibler Road, Van Buren, Arkansas. The SWPPP has been prepared in accordance with the requirements listed in Part 4 in the Arkansas Department of Environmental Quality (ADEQ) Industrial Stormwater General Permit (IGP) for authorization to discharge under the NPDES (NPDES Permit No. ARR000000) (herein referred to as the Permit), with a ADEQ Permit Tracking Number of ARR000825. The Permit is effective through June 30, 2014.

For purposes of this Plan, the parcels and features within NCPS's property boundary will be referred to as the "Facility" or "Site". Figure 1 depicts the location of the Site.

A copy of this Plan will be maintained at the Facility, and will be made available for review by the ADEQ upon request. This SWPPP has been signed as required under the Permit (see Certification of SWPPP in Appendix A to this Plan). It should be noted that the SWPPP itself is designed to complement other existing environmental regulatory requirements, and compliance with the SWPPP is not a substitute for the fulfillment of other environmental regulatory requirements. NCPS does have an additional spill contingency to cover oil-related chemicals and fluids in compliance with 40 Code of Federal Regulations (CFR) 112. This document is entitled the Spill Prevention, Control, and Countermeasure Plan (SPCC Plan). The SPCC Plan is available for review by ADEQ and maintained at the Facility.

1.1 OBJECTIVES OF THIS PLAN

The objectives of this SWPPP are:

- Identify potential sources of pollution, which may reasonably be expected to affect the quality of storm water discharges associated with industrial activity from the facility. Storm water associated with industrial activity (defined in CFR 122.26(b)(14) includes, but is not limited to, the discharge from any conveyance which is used for collection and conveying storm water and which is directly related to manufacturing, processing or materials storage areas at an industrial plant.
- Describe practices and measures to be used in reducing the potential for pollutants to be exposed to storm water.
- Assure compliance with the terms and conditions of the Permit.

1.2 AMENDING THIS SWPPP

This SWPPP will be reviewed and amended as necessary:

- Whenever there is a change at the Facility, such as a change in design, operation, or maintenance that could increase the exposure of significant materials to storm water.
- Whenever an inspection or compliance evaluation determines a deficiency in the non-structural control measures.
- Whenever an official determines that a modification to the SWPPP is necessary.
- Whenever there is a spill, leak, release, or unauthorized discharge from the Facility.

A record of each review and amendment will be kept using the Record of Reviews and Amendments Form in Appendix B. The SWPPP has been amended after a compliance inspection by the ADEQ on April 5, 2013.

Any revision to the SWPPP required as a result of the Comprehensive Site Compliance Evaluation (see Section 9.0) will be completed within no more than 12 weeks of the completion of the inspection.

A copy of this Plan and of all associated reports, monitoring data, and certifications will be retained by the Facility for a minimum of 3 years.

2.0 <u>IMPLEMENTATION OF ACTIVITIES REQUIRED UNDER THIS PLAN</u>

The following activities related to the Plan will be implemented in order for the Plan to be considered complete:

Activity	Referenced In:
A duly authorized representative will sign the Plan	Appendix A
A duly authorized representative will complete and sign the Certification of Non-Storm Water Discharges	Appendix B

In addition to the actions above, the following inspection, monitoring, and certification records must be kept with this Plan:

- A copy of the Notice of Intent (NOI) submitted to the ADEQ and acknowledgment letter from ADEQ, if available.
- A copy of the Permit, Discharge Monitoring Reports (DMR) submitted to ADEQ, and analytical data provided by the laboratory.
- Descriptions of all leaks/spills or other releases that resulted in discharges of
 pollutants to surface waters through storm water or otherwise, the circumstances
 leading to the release and actions taken in response to the release, and measures
 taken to prevent the recurrance of such releases.
- Records of employee training on the SWPPP.
- Documentation of maintenance and repairs of control measures, including the dates(s) of regular maintenance, date(s) of discovery of areas in need of repair/replacement, date(s) of actual repairs, date(s) that the control measure(s) returned to full function, and the justification for any extended maintenance/repair schedules.
- All inspection reports, including the Routine Facility Inspection, the Visual Assessment Reports, and the Comprehensive Site Inspection Reports.
- Description of any deviations from the schedule for visual assessments and/or monitoring, and the reason for the deviations.
- Description of any corrective action taken at the Site, including triggering event and dates when problems were discovered and modifications occurred.

3.0 <u>FACILITY INFORMATION</u>

3.1 <u>SITE DESCRIPTION</u>

The Site is located at 2802 Kibler Road, Van Buren, Arkansas. The latitude and longitude for the center of the Site is approximately 35.345693 and -94.328012, respectively. The Facility consists of approximately 5.2 acres and includes several buildings, silos, and above ground storage tanks (AST). NCPS operates an oil field service company from the Facility. The Standard Industrial Classification (SIC) code for the Facility is 1389. The North American Industry Classification System (NAICS) code for the Facility is 213112. Operation hours are 24 hours, seven days a week. NCPS provides well stimulation (hydraulic fracturing), well-logging and cementing services associated with oil and natural gas production. NCPS also operates an elaborate fleet vehicle maintenance and fabrication program. Activities involved with oil field services are dynamic and continuously changing, as does the equipment necessitated to accommodate these changes.

The primary structures on Site include:

- Maintenance Shop building
- Storage trailers and sheds
- Chemical Storage building
- Bulk Plant Mixing building
- Silos containing cement, sand and fly ash
- ASTs (dilute hydrochloric acid, new and used oil, antifreeze and nitrogen)

Within the Maintenance Shop building there are five ASTs that contain oil and one AST that contains antifreeze. Located directly outside of the Maintenance Shop are one 330-gallon AST for storage of used oil and one 330-gallon AST for storage of used antifreeze. There are also offices located in the Maintenance Shop building.

The Chemical Storage building was constructed and completed in September 2011. The building is over 6,000 square feet and is capable of having tractor trailers load and unload chemicals within its secondary containment. The entire building is surrounded by a secondary-containment berm and has a dead-end sump located within. The new building allows all chemicals at the Facility to be stored under cover within secondary containment. Chemicals are stored primarily in sacks or 220 gallon totes. Empty drums and totes are stored on the east side of the yard and picked up by the respective vendors.

Dilute hydrochloric acid (HCl) is stored in a double-walled 4,600-gallon poly AST. The HCl AST is located on the eastern side of the Maintenance Shop within a cement block wall. A nitrogen gas AST is located south of the Bulk Plant Mixing building.

Figure 2 provides a Site Plan which identifies the primary Site features.

3.2 <u>SITE DRAINAGE AND OUTFALLS</u>

Topographic contours across the Site are relatively flat with a gradual slope toward the south/southeast. The majority of the Site is covered with permeable material (gravel, cinders, and soil) that allows precipitation to infiltrate, and only a small percentage of the ground is covered with non permeable material (i.e., asphalt or concrete).

During extremely heavy storm events, sheet flow across the Site flows toward the south and southeast. There is one catch basin located at the end of the concrete driveway from the Maintenance Building in which a 4-inch diameter pipe is present. There are not any drains inside the Chemical Storage building where the majority of materials and chemicals are stored under roof cover.

There are two drainage swales along the southern and eastern property that intercept storm water flow. Kibler Road (Arkansas State Highway 162) is immediately north of the Facility, and South 28th Street is on the west side of the Facility. There is minimal storm water run-on flow to the Facility due to the drainage swales and roads.

One storm water outfall was originally identified for the Facility and included in the NOI. During an inspection by the ADEQ on April 5, 2013, four additional outfalls were identified. The five Outfalls are shown on Figure 2 and are as follows:

- Outfall 001 farthest downgradient, south (lat. 35.43476/long. -94.32797)
- Outfall 002 at property boundary, south of Maintenance Shop (lat. 35.43550/long. -94.32872)
- Outfall 003 south and upgradient of Outfall 001 (lat. 35.43489/long. -94.32767)
- Outfall 004 eastern drainage swale (lat. 35.43567/long. -94.32714)
- Outfall 005 eastern drainage swale and east of Chemical Building (lat. 35.43592/long. -94.32713)

Four of the Outfalls (Outfall 001, 003 through 005) are located along the drainage swale at the south and east property boundaries. Outfall 002 is located south of the Maintenance Shop building.

The closest surface water body is Flat Rock Creek which is located approximately 300 feet to the south of the Site's property boundary. As determined by Site reconnaissance conducted by NCPS, the drainage swales do not directly connect with Flat Rock Creek.

4.0 POLLUTION PREVENTION TEAM

The individuals comprising the pollution prevention team and their respective responsibilities are shown in the following table. The pollution prevention team is responsible for assisting the Operations Manager in developing and revising the Facility's SWPPP (detailed in Section 1.2) as well as maintaining control measures and taking corrective actions where required. Each member of the pollution prevention team shall have ready access to applicable portions of the Permit and this Plan.

POLLUTION PREVENTION TEAM MEMBERS AND RESPONSIBILITIES

Name or Title of Team Member	Office/Mobile Phone Number	Responsibility		
Fran Hoffman Operations Manager	(479) 471-7467 office (479) 806-0901 mobile	 Update and revise the SWPPP as required by the Permit Implement the employee training program as described in Part 4 of the Permit 		
		Update the record of spills and releases from the Facility		
David Rose	(479) 471-7467 office	Conduct the Comprehensive Site Compliance Evaluation as described in Part 4.6.10.2 of the Permit.		
Materials Manager	(610)-466-2389 mobile	Implement the preventative maintenance program in accordance with Best Management Practices (BMPs)		

5.0 POTENTIAL SOURCES OF POLLUTION

5.1 <u>INDUSTRIAL ACTIVITIES</u>

Industrial activities are primarily conducted within and around the following Site features:

- Maintenance Shop building
- Storage trailers and sheds
- Chemical Storage building
- Bulk Plant Mixing building
- Silos containing cement, sand and fly ash
- ASTs (dilute HCl, new and used oil, antifreeze and nitrogen)
- Fleet vehicle and equipment parking

<u>Maintenance Shop</u> - within the Maintenance Shop building there are five ASTs that contain oil and one AST that contains antifreeze. Located directly outside of the Maintenance Shop are one 330-gallon AST for storage of used oil and one 330-gallon AST for storage of used antifreeze. Loading and unloading of fuels and liquids is conducted inside and outside of the Maintenance Shop.

<u>Storage Trailers and Shed</u> – Various materials and equipment are stored in on-Site trailers and sheds. NCPS personnel store and load equipment and materials into and from the trailers and sheds.

<u>Chemical Storage building</u> - Chemicals are stored inside this building and are not exposed to outdoor conditions or precipitation. Tractor trailers load and unload chemicals within its secondary containment. The entire building is surrounded by a secondary-containment berm and has a dead-end sump located within. Chemicals are stored primarily in sacks or 220-gallon totes. Empty drums and totes are stored on the east side of the yard and picked up by the respective vendors. NCPS personnel load and unload chemicals from the building.

<u>Bulk Plant Mixing building and Silos</u> – Dry materials consisting of cement, sand, and fly ash are stored in the silos west of the Mixing building. The dry materials are mixed and loaded at this location into NCPS trucks for delivery and use at the well pad sites.

<u>HCl ASTs</u> - Dilute HCl is stored in a double-walled 4,600-gallon poly AST. The HCl AST is located on the eastern side of the Maintenance Shop within a cement block wall.

<u>Equipment and Vehicle Parking</u> - NCPS's fleet of vehicles are parked on the east and south perimeters of the Site.

5.2 INVENTORY OF EXPOSED MATERIALS AND CHEMICALS

Due to the construction of the Chemical Storage building, existing silos and ASTs, there are very few chemicals or materials present in outside areas that can be exposed to precipitation. Cement, sand and fly ash that spill on the surface around the silos are promptly cleaned up by NCPS. The Chemical Storage building is constructed with a perimeter berm to act as containment in the event of a spill in the building. A listing of the chemicals and materials that are typically contained on Site are included in Appendix C.

Oil and oil-related fluids are mainly stored in the Maintenance Shop building and are addressed by the Site's SPCC Plan, and therefore, are not addressed in this SWPPP.

5.3 RISK IDENTIFICATION AND SUMMARY OF POTENTIAL POLLUTANT SOURCES

The materials at the Site that could be potentially exposed to storm water and their subsequent potential pollutant concerns are limited to the following:

- 1. Excess dry materials (cement, sand and fly-ash) adjacent to the Bulk Mixing building
 - a. Potential pollutant concern: total suspended solids (TSS)
- 2. HCl AST located on the east side of the Maintenance Shop
 - a. Potential pollutant concern: low pH
- 3. Surficial spills during loading or unloading of materials
 - a. Potential pollutant concern: dependent on material; TSS, low pH

5.4 SPILLS AND LEAKS

The ADEQ responded on May 11, 2011 to a complaint that NCPS was washing equipment on the Site without containment, and allowing wash water to drain across the Site to a nearby ditch. NCPS informed ADEQ that this practice was no longer being

conducted, and waste water is no longer generated on Site. There were no signs of a spill or release.

During an April 5, 2013 inspection, ADEQ noted evidence of a past spill on the south side along the fence line of the Facility, which is reported as a violation of Part 4.6.6.5 of the Permit. NCPS contracted Hubbs Construction (Hubbs) to excavate an area of oil-stained gravel on April 22, 2013. Hubbs removed stained gravel to a depth in which no further visible staining was observed and ranged from approximately 0.2 to 0.7 feet below existing grade. One composite sample was collected for disposal characterization using Toxicity Characteristic Leaching Procedures (TCLP). The TCLP results indicated the sample was non-hazardous and the gravel/soil was disposed of off Site at a licensed disposal facility. The area was backfilled with clean gravel.

There have not been any other reportable spills other than as noted above.

In the event of a reportable spill, the information regarding to the spill will be kept with the version of this Plan that is maintained by the Pollution Prevention Team (see Section 4.0).

5.5 SUMMARY OF SAMPLING DATA

Effluent water samples have been collected from Outfall 001 near the southern drainage swale for the parameters required in the Permit. Samples were collected on the following dates:

- October 27, 2011 (before the Permit was issued)
- October 10, 2012

The reporting period of January through June 2012 was missed in error and reported as a violation in the ADEQ's April 2013 inspection.

Copies of the Discharge Monitoring Reports (DMR) and the laboratory analytical reports are included in Appendix D. The data was compared to the recommended Benchmark Values per the Permit.

The analytical result for TSS was reported at a concentration (226 milligrams per liter) slightly above the benchmark value during the October 2011 sampling. TSS in the outfall sample is likely due to the surficial cover at the Site consisting of gravel, soil, and cinders, and the sample was turbid at the time of collection. Since the pH has been

within the range of 6.0 to 9.0 standard units, it does not appear the TSS elevated concentration is due to cement entering the storm water.

As a corrective action for the TSS exceedance, NCPS has installed sediment/silt barriers along the eastern property boundary in an effort to reduce fines and solids in run-off. The silt barriers will be adjusted as needed based on the analytical results for the Outfall sampling. If this corrective action does not resolve the issue, NCPS will evaluate further corrective actions.

Outfalls 001 through 005 will be sampled in accordance with the Permit parameters and frequency.

6.0 MEASURES AND CONTROLS

6.1 BEST MANAGEMENT PRACTICES - NON-STRUCTURAL CONTROL MEASURES

6.1.1 GOOD HOUSEKEEPING

The good housekeeping program is an ongoing program implemented to ensure a clean, orderly Facility. Additional BMPs for the Facility are included in the SPCC Plan for oil and oil-related products. The storm water good housekeeping program is part of the Facility-wide program, and is in accordance with Section 4.6.6.3 in the Permit. The equipment and the areas to be inspected under the storm water good housekeeping program, and the frequencies of the inspections, are included in Appendix B. The observations made under the program are recorded by the Facility on the Storm Water Inspection Report (see Appendix B).

To control excess, unused, dry materials in the bulk mixing area and silos from entering storm water, NCPS implements routine inspections and cleaning of these areas. NCPS has also installed silt barriers along the eastern property boundary in an effort to reduce fines and solids from run-off. As previously stated, it does not appear that cement is entering the storm water and creating an elevation in TSS concentrations.

Any deficiencies identified under the program will be corrected as quickly as reasonably possible.

6.1.2 PREVENTATIVE MAINTENANCE

The equipment and sources are inspected in accordance with the Facility's SPCC Plan BMPs, and this Plan. The observations made under the program are also recorded in the Facility's Storm Water Inspection Report.

Any deficiencies identified under the program will be corrected as quickly and reasonably as possible.

6.1.3 SPILL PREVENTION AND RESPONSE PROCEDURES

The areas where potential spills can occur are described in Section 5.2. Additional spill response procedures are included in the SPCC Plan for the Facility. The procedures for responding to and cleaning up spills are as follows:

Any employee discovering a spill will:

- i) Notify their supervisor and/or the Facility Manager. Once the employee notifies the supervisor, the supervisor will notify the Facility Manager.
- ii) Contain the spill, to the extent possible to do safely, using the equipment located in one of the Facility's spill kits.

In the event of a potential release of chemicals or substances from the Site, the Facility Manager is responsible for:

- i) Evaluating the situation and the potential for the emergency to intensify.
- ii) Identifying the type, quantity, and source of the spill.
- iii) Activating personnel to contain and clean up the spill, and to prevent any additional spillage.
- iv) Estimating the volume discharged from the Site as a result of the spill, and making all appropriate emergency notifications (see below).
- v) Arranging for all spilled material to be adsorbed in granular absorbent or manually removed and placed in drums. The waste generated will be characterized and properly disposed of or reclaimed at an approved facility.

If a release of a materials or chemicals from the Facility is greater than the reportable quantity (RQ), or results in a sheen on the waters of the State, the Facility Manager will enter the information required in the Release Notification Form in Appendix B and use that information when notifying:

1.	National Response Center (NRC)	1-800-424-8802
2.	Crawford County Department of Emergency Response	(479) 471-3260
3.	Arkansas Department of Emergency Management	1-800-322-4012
4.	Van Buren Fire Department	(479) 471-5031 / 911

For cleanup of spilled material after mitigation of spill, call HMER One, Inc. at (972) 775-6894 or Northwest Hazmat, Inc. at 1-800-597-1323. All spills which enter or threaten to enter the wastewater municipal sewer system must be reported to Van Buren Municipal Utilities at (479) 474-5067.

6.1.4 EMPLOYEE TRAINING

Appropriate personnel at all levels of responsibility in the Facility will be trained annually on the objectives and components of the Plan. The training will include emphasis on:

- The contents of this SWPPP
- The spill prevention and response procedures described in Section 6.1.3 above

6.2 BEST MANAGEMENT PRACTICES - STRUCTURAL CONTROL MEASURES

As previously described in Section 5.2., the only foreseeable significant source of potential pollution to storm water would be from a release of a surficial spill during loading or unloading of materials, from excess, unused cement, sand and fly ash around silos and the mixing building, or from the HCl AST. All other potential sources are housed indoors and under cover with secondary containment measures to ensure that they do not contribute to storm water pollution.

NCPS has spill control equipment and materials, such as absorbent socks and absorbent pads, granular oil dry material, and shovels in the immediate vicinity of the loading and unloading areas, the Chemical Storage building, and the HCl AST.

The 4,600-gallon double-walled AST containing dilute HCl is and enclosed within a concrete block containment wall located on a cement pad. Precipitation and storm water do not typically accumulate within the secondary containment structure. NCPS checks the AST on a routine basis in accordance with the requirements in this Plan. Spill pans are used during loading and unloading of acid from the AST. In addition, NCPS personnel are present during product loading and unloading from this AST.

BMPs consisting of good housekeeping are implemented for the silos and mixing building to prevent materials from entering storm water.

TSS concentrations have exceeded the Permit benchmark levels in Outfall 001 sampling. Therefore, NCPS has implemented sediment/silt barrier controls (silt fence and silt socks) to mitigate fines and solids from the gravel across the Site from entering the surface water through run off.

7.0 NON-STORM WATER DISCHARGES

There are no discharges at the Facility of the authorized non-storm waters as described in Part 4.6.7 of the Permit.

7.1 EVALUATION OF NON-STORM WATER DISCHARGES

See the Certification of Non-Storm water Discharges in Appendix A which certifies that all discharges have been tested or evaluated for the presence of any non-storm water discharge which is not authorized under the Permit.

To check for non-storm water discharges, one or more of the following methods were used at each storm water outfall.

<u>Visual Inspection</u>

Inspect each discharge point during dry weather on three separate occasions. As a rule, the discharge point should be dry during a period of extended dry weather since a storm water collection system should only collect storm water. To be sure about the source of any flow during dry weather, one of the additional tests described below may be performed.

Sewer Map

A review of a sewer map or plant schematic is another way to determine if there are any interconnections into the Facility's storm water collection system. A sewer map or plant schematic is a map of pipes and drainage systems used to carry process wastewater, non-contact cooling water, air conditioner condensate, and sanitary wastes (bathroom, sinks, etc.). If an accurate and reliable plant schematic exists, the pathways of the different water circuits may be examined. Also, floor drain discharges should be investigated since these may not drain into the storm water system.

Dye Testing

Another method for detecting improper connections to the storm water collection system is dye testing. Dye testing can be performed by simply releasing a dye into either the sanitary or process wastewater system and examining the discharge points from the storm water collection system for discoloration.

7.2 SEDIMENT AND EROSION CONTROL AND MANAGEMENT OF RUN-ON AND RUNOFF

The topography of the Site is generally flat around the buildings, and is graded so that runoff is contained on the Site. There is minimal storm water run-on flow to the Facility due to the drainage swales and roads. The Site is primarily covered with gravel, cinders, soil, or vegetation. Storm water in the flat areas either percolates into the ground or flows slowly as sheet flow and remains on Site as shown on Figure 2. As a result, there are limited areas with a high potential for soil erosion.

However, TSS concentrations have exceeded the Permit benchmark levels in Outfall 001 sampling. Therefore, NCPS has implemented sediment/silt barrier controls (silt fence and/or silt socks) along the east property boundary to mitigate fines and solids from the surficial materials across the Site from entering the storm water flow and discharging through outfalls.

8.0 <u>SAMPLING AND MONITORING</u>

NCPS will comply with the sampling and monitoring for Outfalls 001 through 005 as required by the Permit. Part 3 of the Permit describes the monitoring, parameters, and frequency requirements. The samples will be collected at a point representative of each Outfall (if not dry) discharge, but prior to entry into the drainage swale.

9.0 COMPREHENSIVE SITE COMPLIANCE EVALUATION

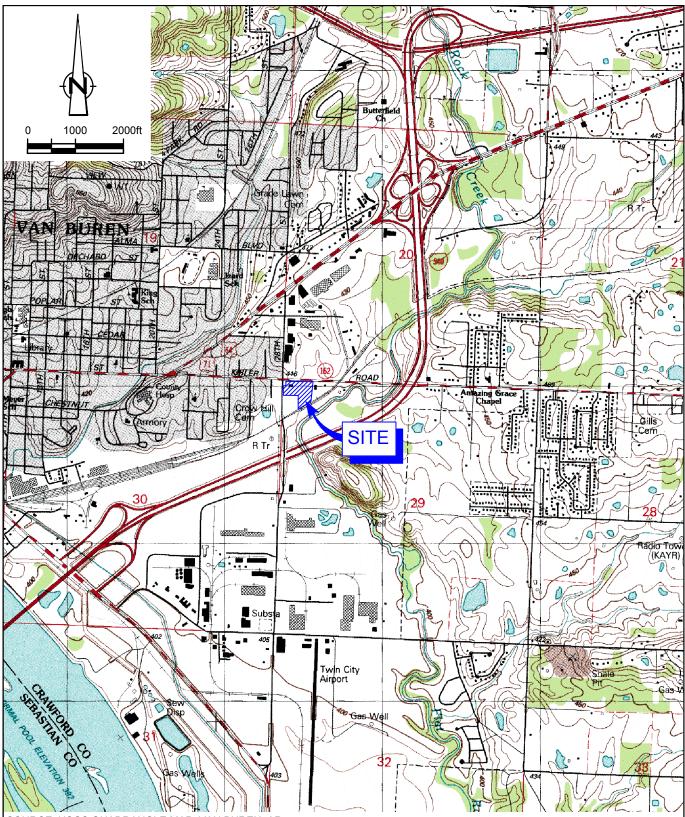
A Comprehensive Site Compliance Evaluation will be performed at least once per year by the Operations Manager to confirm the accuracy of the description of potential pollution sources contained in the Plan, determine the effectiveness of the Plan, and assess compliance with the Permit. This evaluation shall provide:

- 1) Areas contributing to a storm water discharge associated with industrial activity shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the Permit or whether additional control measures are needed. Structural storm water management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the Plan shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the Plan, such as spill response equipment shall be made.
- 2) Based on the results of the evaluation, the description of potential pollutant sources identified in the Plan (Section 5.2, in accordance with Part 4.6.5 of the Permit) and pollution prevention measures and controls identified in the Plan shall be revised as appropriate within the timeframes contained in the Permit.
- 3) A report summarizing the scope of the evaluation, personnel making the evaluation, the date(s) of the evaluation, major observations relating to the implementation of the Plan, and actions taken in accordance with the above paragraph must be documented and either contained in, or have on-Site record keeping location referenced in, the Plan at least 3 years after the date of the evaluation.
- 4) Where compliance evaluation schedules overlap the routine quarterly inspections required in the Permit, the compliance evaluation may be conducted in place of one such inspection.

The results will be recorded on the Comprehensive Site Compliance Evaluation report presented in Appendix B. The report will be signed by a duly authorized signatory and retained with this SWPPP for 3 years.

10.0 SECTION 303 CHEMICALS AND TOTAL MAXIMUM DAILY LOAD

Storm water discharges from the Facility does not enter a water body that is on the most recent 303 (d) list, or with an approved Total Maximum Daily Load (TMDL). As previously noted, the closest major surface water body is Flat Rock Creek, which is located approximately 300 feet south of the Site's property boundary, and storm water enters a drainage swale on Site but it does not drain to this creek.

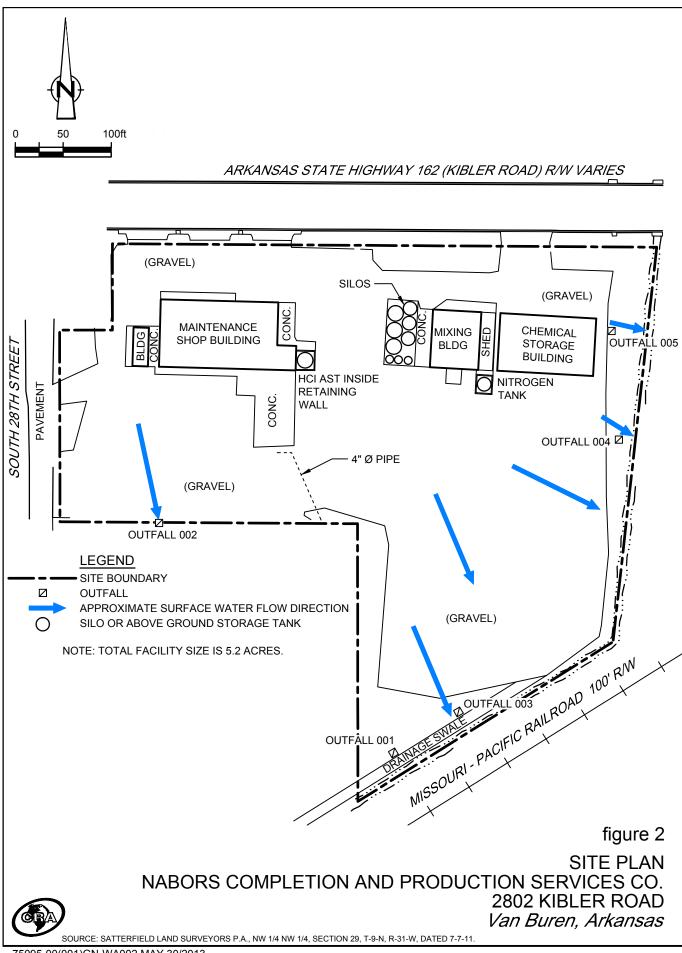


SOURCE: USGS QUADRANGLE MAP: VAN BUREN, AR.

figure 1

SITE LOCATION MAP NABORS COMPLETION AND PRODUCTION SERVICES CO. 2802 KIBLER ROAD Van Buren, Arkansas





APPENDIX A CERTIFICATIONS

CERTIFICATION OF THIS STORM WATER POLLUTION PREVENTION PLAN NABORS COMPLETION AND PRODUCTION SERVICES CO. 2802 KIBLER ROAD VAN BUREN, ARKANSAS

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 gathered and evaluated 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 knowing violations.

Signature: Pat Wellin

Name: Patrick Kellam

Title: Environmental Manager

Date: May 30, 2013

CERTIFICATION OF NON-STORM WATER DISCHARGES

Facility: NABORS COMPLETION AND PRODUCTION SERVICES CO. 2802 KIBLER ROAD, VAN BUREN, ARKANSAS
Date of testing and/or evaluation: May 10, 2013
Description of any potential significant sources of non-storm water:
No potential significant sources of non-storm water were identified.
Description of the results of any test and/or evaluation of each potential source for the presence
of non-storm water discharges:
Not applicable - no potential sources identified.
Description of the evaluation criteria or testing method used: <u>Visual and review of existing Site facility drawings.</u>
List of the outfalls and on-Site drainage points that were directly observed during the test:
The entire perimeter of the Site was observed, including Outfalls 001 through 005.
Certification: I hereby certify that all discharges (i.e., Outfalls 001 through 005) have been tested or evaluated for the presence of non-storm water.
Signature: <u>Pat Kellim</u>
Print name: Patrick Kellam

May 10, 2013

Date:

APPENDIX B

FORMS

RECORD OF REVIEWS AND AMENDMENTS

RECORD OF REVIEWS AND AMENDMENTS STORM WATER POLLUTION PREVENTION PLAN NABORS COMPLETION AND PRODUCTION SERVICES CO. 2802 KIBLER ROAD VAN BUREN, ARKANSAS

INSTRUCTIONS FOR COMPLETING THE RECORD BELOW

For the review of the Storm Water Pollution Prevention Plan (Plan):

- 1. Insert the date of completion of the review of the Plan
- 2. Circle whichever of the words "does" or "does not" is applicable, and delete whichever is not applicable
- 3. Sign the record

If the Plan requires amendment as a result of the review:

- 1. Insert the date of completion of the amendment(s) to the Plan
- 2. Circle whichever of the words "did" or "did not" is applicable, and delete whichever is not applicable
- 3. Sign the record

This Plan was reviewed on May 15, 2013, ar Name of Reviewer:	nd does/does not as a result require amendment. Signature of Reviewer:
Patrick Kellam	Pat Kellin
If the Plan required amendment, the amend	lment was completed on May 30, 2013.
Name of Person making Amendments:	Signature of Person making Amendments:
Daniel P. Cusick	Ditt.Cik
This Plan was reviewed onamendment.	, and does / does not as a result require
Name of Reviewer:	Signature of Reviewer:
If the Plan required amendment, the amend Name of Person making Amendments:	dment was completed on Signature of Person making Amendments:

RECORD OF REVIEWS AND AMENDMENTS (CONTINUED)

This Plan was reviewed onamendment.	-	
Name of Reviewer:	Signature of Reviewer:	
If the Plan required amendment, the amendme	ent was completed on	
Name of Person making Amendments:	Signature of Person making Amendments:	
This Plan was reviewed onamendment.	, and does / does not as a result require	
Name of Reviewer:	Signature of Reviewer:	
If the Plan required amendment, the amendme	ent was completed on	
Name of Person making Amendments:	Signature of Person making Amendments:	
This Plan was reviewed onamendment.	, and does / does not as a result require	
Name of Reviewer:	Signature of Reviewer:	
If the Plan required amendment, the amendme	ent was completed on	
Name of Person making Amendments:	Signature of Person making Amendments:	

COMPREHENSIVE SITE COMPLIANCE EVALUATION REPORT

COMPREHENSIVE SITE COMPLIANCE EVALUATION REPORT NABORS COMPLETION AND PRODUCTION SERVICES CO. 2802 KIBLER ROAD VAN BUREN, ARKANSAS

Date:	Time:	
Inspected by (print name):		
Signature:		

Areas Inspected*	Observations	Actions Taken
Drainage swales and		
Outfalls are clear of debris		
Silt Fencing and Silt Socks		
are installed and in good		
shape		
HCl AST and		
containment		
Cement, Sand and Fly-		
Ash Silos (outside only)		
Empty drums, totes and		
debris		
Oil Storage inside		
Maintenance Shop		
Building		
Loading/Unloading areas		

- * = The areas identified in the above table must be inspected for:
- Industrial materials, residue, or trash that could be carried into a storm sewer
- Leaks or spills
- Unauthorized storm water discharges
- Off-Site tracking of industrial materials
- Tracking or blowing of raw, final, or waste materials from areas of no exposure (e.g., inside the building) to exposed areas (e.g., outside the building)
- Evidence of, or the potential of, pollutants entering the storm sewer

All the observations of non-compliance in the above table must be addressed prior to the next storm, if practicable, but no more than 12 weeks after the date of the inspection.

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 knowing violations.

Signature of duly authorized representative of NABORS COMPLETION AND PRODUCTION SERVICES CO.

Printed name of duly authorized representative of

NABORS COMPLETION AND PRODUCTION SERVICES CO.

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STORM WATER INSPECTION REPORT

STORM WATER INSPECTION REPORT NABORS COMPLETION AND PRODUCTION SERVICES CO. 2802 KIBLER ROAD VAN BUREN, ARKANSAS

Inspector:		D	ate:			
Answer the questions below action	with "Y" (= Y	(es) or "N" (= No). If your a	answer is l	No, take co	rrective
Inspection Items	HCl AST	Silos and Mixing Bldg				
Item/Device/Area is in good condition?						
Free of leaks?						
Foundation for containment in good condition?						
Water removed from dike or area if applicable?						
Piping all leak-free?						
Inspection of spill control equi	nmont and ma	ntorials at loading	and unlos	ding areas		
Are the following equipment/n				unig areas		
Booms, absorbent pads,			idition:			
Sediment control Silt fe			n good sha:	ne		
Scament control shi te.		cks histarica and i	II good sha	PC		
Inspection of Discharge in Stor	rm water from	Outfalls 001 thro	ugh 005			
Drain and discharge free of shee	en or of any un	usual discharge?				
Corrective actions:						
Comments:						

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RELEASE NOTIFICATION FORM

RELEASE NOTIFICATION FORM NABORS COMPLETION AND PRODUCTION SERVICES CO. 2802 KIBLER ROAD VAN BUREN, ARKANSAS

Name of person making noti	fication:
Phone number of person ma	king notification:
Facility Information: Facility name and address:	Nabors Completion and Production Services Co. 2802 Kibler Road, Van Buren, Arkansas
Facility ID #:	
• Latitude and longitude:	35.435693°, -94.328012°
Date and time of the release:	
Source and cause of the release	ase:
Type of material released: _	
Estimated quantity of materi	al released:
Streams/rivers/bodies of wa	ater, which have been or may be affected by the release (circle one)
Flat Rock Creek	
Injuries caused by the release	e:
Damage caused by the releas	se:
Whether evacuation was/wi	ll be necessary (circle one): Yes No
Steps being taken or propose	ed to contain and clean up the release:
Estimated quantity and disp	osition of any recovered materials:

Names of authorities who have also been/will also be contacted if the release is reportable:

- National Response Center: 1-800-424-8802
- Arkansas Department of Emergency Management: 1-800-322-4012

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APPENDIX C CHEMICAL INVENTORY LIST

Product Name	CAS Number	Chemical
Class A cement	12168-85-3	Tri-calcium silicate
Class H Cement	65997-15-1	Portland cement clinker
Silica Flour	014808-60-7	Quartz silicon dioxide
Fly Ash	7631-86-9	Ampohous silica hydrated
IC-100	77-92-9	2-hydroxl-1,2,3 Propanetricarboxic acid
Methanol	67-56-1	Methanol
No Foam 3	64742-54-7	Distillates (petroleum)
OB-Fe	57-55-6	Propylene glycol
	7782-63-0	Ferrous sulfate, heptahydrate
Propane	98-6	Propane
Sand	14808-60-7	Silica quartz
SAS-2	64742-47-8 8052-41-3	Hydrotreated light distillates
	57-55-6	Mineral spirits
	68551-12-2	Propylene glycol Ethoxylated alcohols
Super NE-100	67-63-0	Isopropyl alcohol
	111-76-2	Glycol ethers
SAS-2 Breaker	7782-63-0 77-92-9	Ferrous sulfate heptahydrate Citrus acid
Super Max	67-63-0	Isopropyl alcohol
	111-76-2	Glycol ethers
	104-76-7	Ethylhexanol
Super Penn 2000	104-76-7	Ethylhexanol
AI-2 Inhibitor	111-76-2	Glycol ether
	107-19-7	Propargyl alcohol
	67-63-0	Isopropyl alcohol

Product Name	CAS Number	Chemical		
OW-3	67-63-0	Isopropyl alcohol		
pH-15L	1310-73-2	Sodium hydroxide		
	7647-14-5	Sodium chloride		
Motor oil, packing oil, hydraulic oil.	64742-54-7	Lubricating oil base stock		
Gear oil	64741-88-4	Lubricating oil base stock		
Anti freeze	107-21-1	Ethylene glycol		
Parts cleaners / paint thinners	8052-41-3	Petroleum distillates mineral spirits		
Misc automotive	108-88-3	Possible Toluene		
maintenance chemicals	1330-20-7			
pH-14	497-41-8	Sodium carbonate		
pH-4	110-17-8	Fumaric acid		
Wfr3-b	64742-47-8	Hydrotreated Light Distillate		
Super Sil SP	1344-09-8	Sodium Silicate		

APPENDIX D

DISCHARGE MONITORING REPORTS AND ANALYTICAL DATA

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY STORMWATER DISCHARGE MONITORING REPORT (DMR)

FACILITY Superior Well Services, Inc., Van Buren, AR ADDRESS: SECTOR: Benchmark Value Benchmark Value Chemical Oxygen Demand (COD) Total Suspended Solids (TSS) PARAMETER Benchmark Value Benchmark Value DIANUARY-JUNE DIANU			` ,				
NAME: Inc., Van Buren, AR ADDRESS: Buren, AR 72956 INDUSTRIAL SECTOR: I1 OUTFALL NO: REPORTING YEAR: 2011 PARAMETER Benchmark Value JANUARY-JUNE JULY-DECEMBER Chemical Oxygen Demand (COD) 120 NA 46.3 mg/L Total Suspended Solids (TSS) 100 NA 2266 mg/L Oil and Grease (O&G) 15 NA 6.10 mg/L pH 6.0-9.0 NA 8.00 S.U. PARAMETER Benchmark Value JULY-DECEMBER NA NO: NA 18.00 S.U. Comments: Permit was approved on 11-28-11. The data included in the 2010 DMR was collected for the NOI submittal, and additional data in 2011 was not collected. TSS exceeded the benchmark value. Upon review of the data and sampling methodology used, it was determined that the sampler may have intentionally gathered sediment in the sample bottle. The employee was disgruntled and is no longer employed at the facility. I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN: AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION SUBMITTED HEREIN: AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION SUBMITTED HEREIN: AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION SUBMITTED HEREIN: AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION, I BELIEVE THE SUBMITTED INFORMATION, I BELIEVE THE SUBMITTED INFORMATION, I DELIEVE THE SUBMITTED INFORMATION, I DELIEVE THE SUBMITTED INFORMATION, I BELIEVE THE SUBMITTED INFORMATION, INCLUDING THE POSSIBILITY	PERMIT NUMBER: ARR000825	í	PERMITTEE	NAME:	_	l Ser	vices,
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Printed Name & Title of Official

Signature & Date



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville 2960 Foster Creighton Road Nashville, TN 37204 Tel: 800-765-0980

TestAmerica Job ID: NUJ3719

Client Project/Site: 075095

Client Project Description: SWSI - Van Buren, AR Storm Water

For:

Conestoga Rovers Associates - Niagara Falls (8571) 2055 Niagara Falls Boulevard Ste#3 Niagara Falls, NY 14304

Attn: Paul McMahon

Authorized for release by: 11/4/2011 3:01:49 PM

Um Byan Fitzuata

Ryan Fitzwater Project Manager

Ryan.Fitzwater@testamericainc.com



This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Project/Site: 075095

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Sample Summary

Client: Conestoga Rovers Associates - Niagara Falls (8571)

Project/Site: 075095

TestAmerica Job ID: NUJ3719

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUJ3719-01	001	Water	10/27/11 10:14	10/28/11 08:40

3

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6

8

9

10

11

4.6

Case Narrative

Client: Conestoga Rovers Associates - Niagara Falls (8571)

Project/Site: 075095

TestAmerica Job ID: NUJ3719

Job ID: NUJ3719

Laboratory: TestAmerica Nashville

Narrative

All samples were received in good condition, properly preserved, and properly labeled. All analyses were completed within holding times. There were no relevant protocol specific QC and/or performance standard non-conformances to report with the following exceptions:

No COD EPA 410.4 matrix spike or matrix spike duplicate data reported for batch 11J7239. The source sample required a dilution which diluted the compounds below the detection limit. See blank spike.

4

4

5

8

9

44

Definitions/Glossary

Client: Conestoga Rovers Associates - Niagara Falls (8571)

Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)

Project/Site: 075095

TestAmerica Job ID: NUJ3719

Qualifiers

WetChem

Qualifier	Qualifier Description
MNR	No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this,
	the spike compounds were diluted below the detection limit.
TCLP	
Qualifier	Qualifier Description

The holding time for this test is immediate. The laboratory measurement, therefore, may not be suitable for compliance purposes.

Glossary

TEF

TEQ

These commonly used abbreviations may or may not be present in this report.
Listed under the "D" column to designate that the result is reported on a dry weight basis
Percent Recovery
Contains no Free Liquid
Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Estimated Detection Limit
United States Environmental Protection Agency
Method Detection Limit
Minimum Level (Dioxin)
Not detected at the reporting limit (or MDL or EDL if shown)
Practical Quantitation Limit
Reporting Limit
Relative Percent Difference, a measure of the relative difference between two points

Client: Conestoga Rovers Associates - Niagara Falls (8571)

Project/Site: 075095

pН

Client Sample ID: 001

Date Collected: 10/27/11 10:14

Date Received: 10/28/11 08:40

Lab Sample	ID: NUJ3719-01
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TestAmerica Job ID: NUJ3719

Matrix: Water

Analyte	Regult	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand -	46.3		10.0	2.00	mg/L		10/31/11 14:23	11/02/11 09:19	1.00
- Method: SM2540 D - General Ch	nemistry Parame	eters							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	226		10.0	5.00	mg/L		11/01/11 15:34	11/01/11 15:34	10.0
_ Method: EPA 1664A - General C	hemistry Paran	neters							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease HEM	ND		6.10	1.59	mg/L		10/31/11 11:30	10/31/11 15:24	1.00
– Method: EPA 170.1 - General CI	nemistry Param	eters							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature of pH	21.0	HTI	0.00		Deg C		10/28/11 17:15	10/29/11 17:15	1.00
_determination									
– Method: SW846 9040C - Genera	I Chemistry Par	ameters							
Analyte	•	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac

0.100

8.00 HTI

0.100 pH Units

10/28/11 17:15

10/29/11 17:15

1.00

TestAmerica Nashville 11/4/2011

Project/Site: 075095

Chemical Oxygen Demand

Method: EPA 410.4 - General Chemistry Parameters

Lab Sample ID: 11J7239-BLK1

Matrix: Water

Prep Type: Total
Analysis Batch: 11J7239

Prep Batch: 11J7239_P

Blank Blank

Lab Sample ID: 11J7239-BS1

Matrix: Water

Analysis Batch: 11J7239

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J7239

Prep Batch: 11J7239

Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit D %Rec Limits

20.0

Lab Sample ID: 11J7239-DUP1 Client Sample ID: 001

Matrix: Water Prep Type: Total Analysis Batch: 11J7239 Prep Batch: 11J7239_P

19.5 MNR

mg/L

98

90 - 110

Sample
AnalyteSample
Result
Chemical Oxygen DemandSample
Result
46.3Duplicate
Result
QualifierUnitDRPDLimitResult
Mg/L46.345.345.3mg/L210

Method: SM2540 D - General Chemistry Parameters

Lab Sample ID: 11J7120-BLK1

Matrix: Water

Client Sample ID: Method Blank

Prep Type: Total

Analysis Batch: 11J7120 Prep Batch: 11J7120_P

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac ND 1.00 0.500 11/01/11 15:34 11/01/11 15:34 Total Suspended Solids ma/L 1 00

Lab Sample ID: 11J7120-BS1

Matrix: Water

Client Sample ID: Lab Control Sample

Prep Type: Total

Analysis Batch: 11J7120

Prep Batch: 11J7120_P

Spike LCS LCS

Rec.

 Analyte
 Added
 Result
 Qualifier
 Unit
 D
 %Rec
 Limits

 Total Suspended Solids
 100
 98.6
 mg/L
 99
 90 - 110

Lab Sample ID: 11J7120-DUP1 Client Sample ID: Duplicate

Matrix: Water

Analysis Batch: 11J7120 Prep Batch: 11J7120_P

 Sample
 Sample
 Duplicate
 Duplicate
 Duplicate
 PD
 RPD

 Analyte
 Result
 Qualifier
 Result
 Qualifier
 Unit
 D
 RPD
 Limit

 Total Suspended Solids
 ND
 ND
 mg/L
 5

Lab Sample ID: 11J7120-DUP2

Client Sample ID: Duplicate

Matrix: Water Prep Type: Total Analysis Batch: 11J7120 Prep Batch: 11J7120_P

SampleSampleDuplicateUpplicateAnalyteResultQualifierResultQualifierUnitDRPDLimitTotal Suspended Solids0.900NDNDmg/LTotal mg/L

Project/Site: 075095

Method: EPA 1664A - General Chemistry Parameters

Lab Sample ID: 11J7059-BLK1 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total** Analysis Batch: 11J7059 Prep Batch: 11J7059 P

Blank Blank

Result Qualifier RL MDL Unit D Dil Fac Analyte Prepared Analyzed Oil & Grease HEM ND 5.21 1.35 mg/L 10/31/11 11:30 10/31/11 15:24 1.00

Lab Sample ID: 11J7059-BS1 Client Sample ID: Lab Control Sample **Matrix: Water Prep Type: Total** Analysis Batch: 11J7059 Prep Batch: 11J7059_P LCS LCS Spike %Rec.

Added Result Qualifier Analyte Unit D %Rec Limits Oil & Grease HEM 40.0 36.6 mg/L 91 78 - 114

Lab Sample ID: 11J7059-BSD1 Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total**

Analysis Batch: 11J7059 Prep Batch: 11J7059_P LCS Dup LCS Dup Spike %Rec. RPD Added Result Qualifier Unit D %Rec Limits RPD Limit Oil & Grease HEM 40.0 37.5 mg/L 78 - 114

Client Sample ID: Matrix Spike Lab Sample ID: 11J7059-MS1 **Prep Type: Total**

Matrix: Water

Analysis Batch: 11J7059 Prep Batch: 11J7059 P

Sample Sample Spike Matrix Spike Matrix Spike %Rec. Added Result Qualifier Analyte Result Qualifier %Rec Limits Oil & Grease HEM 40.0 41.5 mg/L 103 0.238 78 114

Method: EPA 170.1 - General Chemistry Parameters

Lab Sample ID: 11J6896-DUP1 Client Sample ID: Duplicate **Matrix: Water Prep Type: Total** Analysis Batch: 11J6896 Prep Batch: 11J6896 P

Sample Sample **Duplicate Duplicate** RPD Result Qualifier Result Qualifier Unit D RPD Limit Analyte Temperature of pH determination 21.0 Deg C 21.0 0 200

Method: SW846 9040C - General Chemistry Parameters

Lab Sample ID: 11J6896-BS1 Client Sample ID: Lab Control Sample **Matrix: Water Prep Type: Total**

Analysis Batch: 11J6896 Prep Batch: 11J6896 P

LCS LCS Spike %Rec. Result Qualifier Analyte Added Unit %Rec Limits pН 7.00 7.03 pH Units 100 95 - 105

Lab Sample ID: 11J6896-BSD1 Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total** Analysis Batch: 11J6896 Prep Batch: 11J6896 P Spike LCS Dup LCS Dup %Rec. RPD

Analyte Added Result Qualifier Unit %Rec Limits RPD Limit рН 7.00 7.05 pH Units 101 95 - 105 0.3

QC Sample Results

Client: Conestoga Rovers Associates - Niagara Falls (8571)

TestAmerica Job ID: NUJ3719 Project/Site: 075095

Method: SW846 9040C - General Chemistry Parameters (Continued)

Lab Sample ID: 11J6896-DUP1 Client Sample ID: Duplicate **Matrix: Water Prep Type: Total** Analysis Batch: 11J6896 Prep Batch: 11J6896_P

Sample Sample **Duplicate Duplicate** RPD Result Qualifier Result Qualifier Unit D RPD Limit Analyte pH Units 0 10 рН 7.40 7.40

QC Association Summary

Client: Conestoga Rovers Associates - Niagara Falls (8571)

Project/Site: 075095

TestAmerica Job ID: NUJ3719

WetChem

Analysis Batch: 11J7120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7120-BLK1	Method Blank	Total	Water	SM2540 D	11J7120_P
11J7120-BS1	Lab Control Sample	Total	Water	SM2540 D	11J7120_P
11J7120-DUP1	Duplicate	Total	Water	SM2540 D	11J7120_P
11J7120-DUP2	Duplicate	Total	Water	SM2540 D	11J7120_P
NUJ3719-01	001	Total	Water	SM2540 D	11J7120_P

Analysis Batch: 11J7239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7239-BLK1	Method Blank	Total	Water	EPA 410.4	11J7239_P
11J7239-BS1	Lab Control Sample	Total	Water	EPA 410.4	11J7239_P
11J7239-DUP1	001	Total	Water	EPA 410.4	11J7239_P
NUJ3719-01	001	Total	Water	EPA 410.4	11J7239_P

Prep Batch: 11J7120_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7120-BLK1	Method Blank	Total	Water	SOLIDS	
11J7120-BS1	Lab Control Sample	Total	Water	SOLIDS	
11J7120-DUP1	Duplicate	Total	Water	SOLIDS	
11J7120-DUP2	Duplicate	Total	Water	SOLIDS	
NUJ3719-01	001	Total	Water	SOLIDS	

Prep Batch: 11J7239_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7239-BLK1	Method Blank	Total	Water	NO PREP	
11J7239-BS1	Lab Control Sample	Total	Water	NO PREP	
11J7239-DUP1	001	Total	Water	NO PREP	
NUJ3719-01	001	Total	Water	NO PREP	

Extractions

Analysis Batch: 11J7059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7059-BLK1	Method Blank	Total	Water	EPA 1664A	11J7059_P
11J7059-BS1	Lab Control Sample	Total	Water	EPA 1664A	11J7059_P
11J7059-BSD1	Lab Control Sample Dup	Total	Water	EPA 1664A	11J7059_P
11J7059-MS1	Matrix Spike	Total	Water	EPA 1664A	11J7059_P
NUJ3719-01	001	Total	Water	EPA 1664A	11J7059_P

Prep Batch: 11J7059_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7059-BLK1	Method Blank	Total	Water	1664	
				HEM/SGTHEM	
11J7059-BS1	Lab Control Sample	Total	Water	1664	
				HEM/SGTHEM	
11J7059-BSD1	Lab Control Sample Dup	Total	Water	1664	
				HEM/SGTHEM	
11J7059-MS1	Matrix Spike	Total	Water	1664	
				HEM/SGTHEM	
NUJ3719-01	001	Total	Water	1664	
				HEM/SGTHEM	

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QC Association Summary

Client: Conestoga Rovers Associates - Niagara Falls (8571)

Project/Site: 075095

TestAmerica Job ID: NUJ3719

TCLP

Analysis Batch: 11J6896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J6896-BS1	Lab Control Sample	Total	Water	SW846 9040C	11J6896_P
11J6896-BSD1	Lab Control Sample Dup	Total	Water	SW846 9040C	11J6896_P
11J6896-DUP1	Duplicate	Total	Water	SW846 9040C	11J6896_P
11J6896-DUP1	Duplicate	Total	Water	EPA 170.1	11J6896_P
NUJ3719-01	001	Total	Water	SW846 9040C	11J6896_P
NUJ3719-01	001	Total	Water	EPA 170.1	11J6896_P

Prep Batch: 11J6896_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J6896-BS1	Lab Control Sample	Total	Water	METHOD PREP	
11J6896-BSD1	Lab Control Sample Dup	Total	Water	METHOD PREP	
11J6896-DUP1	Duplicate	Total	Water	METHOD PREP	
NUJ3719-01	001	Total	Water	METHOD PREP	

Lab Chronicle

Client: Conestoga Rovers Associates - Niagara Falls (8571)

Project/Site: 075095

Client Sample ID: 001

Lab Sample ID: NUJ3719-01

Matrix: Water

TestAmerica Job ID: NUJ3719

Date Collected: 10/27/11 10:14 Date Received: 10/28/11 08:40

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11J7239_P	10/31/11 14:23	AMB	TAL NSH
Total	Analysis	EPA 410.4		1.00	11J7239	11/02/11 09:19	MSJ	TAL NSH
Total	Analysis	SM2540 D		10.0	11J7120	11/01/11 15:34	DRM	TAL NSH
Total	Prep	SOLIDS		10.0	11J7120_P	11/01/11 15:34	JRM	TAL NSH
Total	Prep	1664 HEM/SGTHEM		1.00	11J7059_P	10/31/11 11:30	CEC	TAL NSH
Total	Analysis	EPA 1664A		1.00	11J7059	10/31/11 15:24	JJR	TAL NSH
Total	Prep	METHOD PREP		1.00	11J6896_P	10/28/11 17:15	SJM	TAL NSH
Total	Analysis	SW846 9040C		1.00	11J6896	10/29/11 17:15	SJM	TAL NSH
Total	Analysis	EPA 170.1		1.00	11J6896	10/29/11 17:15	SJM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method Summary

Client: Conestoga Rovers Associates - Niagara Falls (8571)

Project/Site: 075095

TestAmerica Job ID: NUJ3719

Method	Method Description	Protocol	Laboratory
EPA 1664A	General Chemistry Parameters		TAL NSH
EPA 170.1	General Chemistry Parameters		TAL NSH
SW846 9040C	General Chemistry Parameters		TAL NSH
EPA 410.4	General Chemistry Parameters		TAL NSH
SM2540 D	General Chemistry Parameters		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

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TestAmerica Job ID: NUJ3719

Client: Conestoga Rovers Associates - Niagara Falls (8571) Project/Site: 075095

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville		ACIL		393
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
estAmerica Nashville	AIHA - LAP	IHLAP		100790
estAmerica Nashville	Alabama	State Program	4	41150
estAmerica Nashville	Alaska	Alaska UST	10	UST-087
estAmerica Nashville	Arizona	State Program	9	AZ0473
estAmerica Nashville	Arkansas	State Program	6	88-0737
estAmerica Nashville	CALA	CALA		3744
estAmerica Nashville	California	NELAC	9	1168CA
estAmerica Nashville	Colorado	State Program	8	N/A
estAmerica Nashville	Connecticut	State Program	1	PH-0220
estAmerica Nashville	Florida	NELAC	4	E87358
estAmerica Nashville	Illinois	NELAC	5	200010
estAmerica Nashville	Iowa	State Program	7	131
estAmerica Nashville	Kansas	NELAC	7	E-10229
estAmerica Nashville	Kentucky	Kentucky UST	4	19
estAmerica Nashville	Kentucky	State Program	4	90038
estAmerica Nashville	Louisiana	NELAC	6	30613
estAmerica Nashville	Louisiana	NELAC	6	LA100011
estAmerica Nashville	Maryland	State Program	3	316
estAmerica Nashville	Massachusetts	State Program	- 1	M-TN032
estAmerica Nashville	Minnesota	NELAC	5	047-999-345
estAmerica Nashville	Mississippi	State Program	4	N/A
estAmerica Nashville	Montana	MT DEQ UST		NA
estAmerica Nashville	New Hampshire	NELAC	1	2963
estAmerica Nashville	New Jersey	NELAC	2	TN965
estAmerica Nashville	New York	NELAC	2	11342
estAmerica Nashville	North Carolina	North Carolina DENR	4	387
estAmerica Nashville	North Dakota	State Program	8	R-146
estAmerica Nashville	Ohio	OVAP	5	CL0033
estAmerica Nashville	Oklahoma	State Program	6	9412
		•		
estAmerica Nashville	Oregon	NELAC	10	TN200001
estAmerica Nashville	Pennsylvania	NELAC	3	68-00585
estAmerica Nashville	Rhode Island	State Program	1	LAO00268
estAmerica Nashville	South Carolina	State Program	4	84009
estAmerica Nashville	South Carolina	State Program	4	84009
estAmerica Nashville	Tennessee	State Program	4	2008
estAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
estAmerica Nashville	USDA	USDA	_	S-48469
estAmerica Nashville	Utah	NELAC	8	TAN
estAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
estAmerica Nashville	Virginia	State Program	3	00323
estAmerica Nashville	Washington	State Program	10	C789
estAmerica Nashville	West Virginia	West Virginia DEP	3	219

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Nashville, TN

COOLER REC

NU.13719

_ · · - · ·	110000719
Cooler Received/Opened On 10/28/2011 @ 08:40	
1. Tracking # (last 4 digits, FedEx)	
Courier: FEDEX IR Gun ID 95610068	
2. Temperature of rep. sample or temp blank when opened:	elsius
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank froze	n? YES. (NO.) NA
4. Were custody seals on outside of cooler?	(YES)NONA
If yes, how many and where:	
5. Were the seals intact, signed, and dated correctly?	YESNONA
6. Were custody papers inside cooler?	YES)NONA
I certify that I opened the cooler and answered questions 1-6 (intial)	
7. Were custody seals on containers: YES NO and Intact	YESNONA
Were these signed and dated correctly?	YESNONA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Pap	
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ic	
10. Did all containers arrive in good condition (unbroken)?	YESNONA
11. Were all container labels complete (#, date, signed, pres., etc)?	YESNONA
12. Did all container labels and tags agree with custody papers?	YESNONA
13a. Were VOA vials received?	
b. Was there any observable headspace present in any VOA vial?	YESNONA
14. Was there a Trip Blank in this cooler? YESNONA If multiple coolers, seq	YESNONA
I certify that I unloaded the cooler and answered questions 7-14 (intial)	juence #
15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level?	VEO NO NA
b. Did the bottle labels indicate that the correct preservatives were used	
16. Was residual chlorine present?	YESNONA
Learnify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)	YESNONA
17. Were custody papers properly filled out (ink, signed, etc)?	
18. Did you sign the custody papers in the appropriate place?	YESNONA
19. Were correct containers used for the analysis requested?	YESNONA
20. Was sufficient amount of sample sent in each container?	YESNONA
I certify that I entered this project into LIMS and answered questions 17-20 (intial)	YESNONA
I certify that I attached a label with the unique LIMS number to each container (intial)	
21. Were there Non-Conformance issues at login? YESNO Was a PIPE generated? YESN	
Was a PIPE generated? YESN	lO#

Page 16 of

Date Due of Report:



Nashville Division 2960 Foster Creighton Drive * Nashville TN 37204

Shipped Via:

Temperature Upon Receipt: ろょス

Date: Time: 10-28-11 08:40

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Phone: (800) 765-0980 / (615) 726-0177 Fax:(615) 726-3404

THE LEADER IN ENVIRONMEN						١,٠	'Reg	Dis	stric	t (C	(A)"	')	`															Pa	ge _		of			
	onestoga Ro				ara F	alls	(857	1)						TA	Ac	cour	ıt #:	161	0						F	PO #:								
Address: 20	955 Niagara F	alls Bouleva	rd Ste#3	3											In	voice	e to:	Cor	iesto	oga l	Rove	ers A	Asso	ciat	es -	Niag	ara l	Falls	(857	71)				
City, State, Zip: N					NY		14	304							Re	por	t to:	Pau	l M	сMа	hon													
Client Invoice Contact: Je														Pr	ojec	t Na	me:	SW	SI -	Van	Bu	ren,	AR	Sto	rm '	Wate	r							
Client Project Mgr: Pa												_						075																
Client Telephone#: <u>(7</u>	16) 297-6150)		~	Fax	<u>(7</u>	16) 2	297-	629	6		_	Re	g Di	stric	et (C	A):																	
Sampler Name (Print)	FRAN	<u> رتح/</u>	Ho	7	in	19	<u>ب</u>									ddr																		
SamplerSignatur e	-	14/_										•		Cit	y,St	ate,Z	Zip:	Cha	ttan	oog	a						enn	essee						
		/						- Pr	- eser	vati	ive			_		Ma				1	=		_					ze fo						_
																		Τ	Γ	İ	Γ						T	T	$\dot{\top}$	ТП	Т	$\overline{}$	$\overline{}$	Ͱ
Sample ID	Date Sampled	Time Sampled	Grab # Containers Shipped	Composite	Field Filtered	Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Groundwater	Wastewater	Drinking Water	Sludge	Soi	(specify) Other	COD EPA 410.4	HEM 1664 (Oil & Grease	pH 9040C (+T	Solids Suspended SM2540 D											RUSH TAT (Pre Schedule)*
001	10/27/11	10:14	4 X						Ī						Ì	,	<u> </u>			4			7				+	+	H	\dashv	+	Щ	+	H
COMMENTS: All turn around * Pre-Arrangements must be ma around time commitments;additi There may be a charge assessed	times are calcu de AT LEAST onai charges 1	plated from 48 Hours inay be assess	n ADVA ssed.	NCE	E to re	eceive	resu			RUS	SH to	ırn		NOT	TES/S	БРЕС	CIAL	INS	TRU	JCT1	ONS		B	O #	266	986								
Relinquished by:		Date:	Time:		Recei										Da	te:		Time	:	R	elina	mish	ed b							<u> </u>		lov		1
															1			-		1		[4131	.cu D	· y •						Date	::	Tim	e:	

Sample Containers Intact? Y N

VOCs Free of Headspace? Y N

QC Deliverables (Please Circle One):

Level 2 Level 3 Level 4 Site Specific

Project Manager or attach specific instructions)

(If site specific, please pre-schedule w/ TestAmerica

Shipped Via:

Received for TestAmerica by

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY STORMWATER DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER: ARR000825	5	PERMITTE	E NAME:	Nabors Com Services Cor	•	
FACILITY NAME: NCPS Van Buren		FACILITY F ADDRESS:	HYSICAL	2802 Kibler H Van Buren, A	lighway	
INDUSTRIAL SECTOR: 11	OUTFALI NO:	001	REPORT YEAR:	ΓING 2	012	
PARAMETER	Benchmark Value			ONCENTRATI		UNITS
Chemical Oxygen Demand (COD)	120	JANUAR	Y-JUNE	JULY-DECI <10.0	EMBER	mg/L
Total Suspended Solids (TSS)	100			7.08		mg/L
Oil and Grease (O&G)	15			<4.57		mg/L
pH	6.0-9.0			7.40		S.U.
Sampling Period:	J.	ANUARY-JU	NE JUL	Y-DECEMBE	R	
Date of Storm Event Sampled: Duration of Event:				10/10/2012 24	hour	·c
Estimate of Rainfall Event:				0.13	inche	
Time Since Last Measurable Ever	nt:			3	days	
Estimate of Total Discharged Vol	ume:			17,023	gallo	ons
Comments:I CERTIFY UNDER PENALTY OF WITH THE INFORMATION SUINDIVIDUALS IMMEDIATELY RESUBMITTED INFORMATION IS TOUR SIGNIFICANT PENALTIES FOR SOFFINE AND IMPRISONMENT.	JBMITTED H ESPONSIBLE TRUE, ACCUR	IEREIN; AND E FOR OBTAIN RATE AND CO	BASED (NING THE I MPLETE. I	ON MY INQU NFORMATION AM AWARE T	JIRY OF I, I BELIE THAT THE	THOSE EVE THE ERE ARE
Signature & Date		_F		m, Environmen		jer
Digitalate & Date			I IIIICU IV	unic & Title Of	Official	



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville 2960 Foster Creighton Drive Nashville, TN 37204 Tel: (615)726-0177

TestAmerica Job ID: 490-8918-1

Client Project/Site: Van Buren, AR Stormwater

For:

Conestoga-Rovers & Associates, Inc. 2055 Niagara Falls Blvd., Suite 3 Niagara Falls, New York 14304

Attn: Mr. Paul McMahon

Um/for Figure

Authorized for release by: 10/19/2012 4:17:39 PM

Ryan Fitzwater Senior Project Manager

ryan.fitzwater@testamericainc.com

----- LINKS -----

Review your project results through

Total Access

Have a Question?



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

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3:15	
3:15	
3:15	Б
3:15	O
2.15	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-8918-1	NCPS #1	Water	10/10/12 08:30	10/11/12 08:15
490-8918-2	NCPS #2	Water	10/10/12 08:35	10/11/12 08:15
490-8918-3	NCPS #3	Water	10/10/12 08:40	10/11/12 08:15
490-8918-4	NCPS #4	Water	10/10/12 08:45	10/11/12 08:15
490-8918-5	NCPS #5	Water	10/10/12 08:50	10/11/12 08:15
490-8918-6	NCPS #6	Water	10/10/12 08:55	10/11/12 08:15
490-8918-7	NCPS #7	Water	10/10/12 09:00	10/11/12 08:15
490-8918-8	NCPS #8	Water	10/10/12 09:05	10/11/12 08:15
490-8918-9	NCPS #9	Water	10/10/12 09:10	10/11/12 08:15
490-8918-10	NCPS #10	Water	10/10/12 09:15	10/11/12 08:15
490-8918-11	NCPS #11	Water	10/10/12 09:20	10/11/12 08:15
490-8918-12	NCPS #12	Water	10/10/12 09:25	10/11/12 08:15

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Case Narrative

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Job ID: 490-8918-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-8918-1

Comments

No additional comments.

The samples were received on 10/11/2012 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2° C.

Except:

The Chain of Custody was received without listing a date or a time of sample collection.

General Chemistry

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

Client Sample ID: NCPS #1

TestAmerica Job ID: 490-8918-1

Lab Sample ID: 490-8918-1

Matrix: Water

Date Collected: 10/10/12 08:30 Date Received: 10/11/12 08:15

General Chemistry Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Chemical Oxygen Demand ND 10.0 mg/L 10/18/12 13:24

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Lab Sample ID: 490-8918-2

Matrix: Water

Client Sample ID: NCPS #2 Date Collected: 10/10/12 08:35 Date Received: 10/11/12 08:15

General Chemistry							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND —	10.0	mg/L			10/18/12 13:24	1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Lab Sample ID: 490-8918-3

Date Collected: 10/10/12 08:40 Date Received: 10/11/12 08:15

Client Sample ID: NCPS #3

Matrix: Water

General Chemistry

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chemical Oxygen Demand
 ND
 10.0
 mg/L
 10/18/12 13:24
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Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Client Sample ID: NCPS #4 Lab Sample ID: 490-8918-4

Date Collected: 10/10/12 08:45 Matrix: Water

Date Received: 10/10/12 08:45

General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
HEM	ND		4.57		mg/L			10/16/12 10:07	10/16/12 10:07	1

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Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Lab Sample ID: 490-8918-5

Matrix: Water

Date Collected: 10/10/12 08:50 Date Received: 10/11/12 08:15

Client Sample ID: NCPS #5

General Chemistry							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
HEM	ND ND	4.74	mg/L		10/16/12 10:07	10/16/12 10:07	1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Client Sample ID: NCPS #6 Lab Sample ID: 490-8918-6

Date Collected: 10/10/12 08:55 Matrix: Water

Date Received: 10/11/12 08:15

General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prep	pared	Analyzed	Dil Fac
HEM	ND		4.63		mg/L		10/16/1	2 10:07	10/16/12 10:07	1

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Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Client Sample ID: NCPS #7 Lab Sample ID: 490-8918-7

Date Collected: 10/10/12 09:00 Matrix: Water

Date Received: 10/10/12 09:00 Watrix: Wate

General Chemistry							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	7.08	1.04	mg/L			10/13/12 13:26	1

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Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Client Sample ID: NCPS #8 Lab Sample ID: 490-8918-8

Date Collected: 10/10/12 09:05 Matrix: Water

Date Received: 10/11/12 08:15

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	7.58		1.05		mg/L			10/13/12 13:26	1

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Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Lab Sample ID: 490-8918-9

Matrix: Water

Date Collected: 10/10/12 09:10 Date Received: 10/11/12 08:15

General Chemistry

Total Suspended Solids

Analyte

Client Sample ID: NCPS #9

10/13/12 13:26

Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac

mg/L

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Lab Sample ID: 490-8918-10

Matrix: Water

Client Sample ID: NCPS #10 Date Collected: 10/10/12 09:15 Date Received: 10/11/12 08:15

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.20	HF	0.100		SU			10/13/12 11:07	1
Temperature	21.5	HF	0.100		Degrees C			10/13/12 11:07	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Client Sample ID: NCPS #11

Lab Sample ID: 490-8918-11

Matrix: Water

Date Collected: 10/10/12 09:20 Date Received: 10/11/12 08:15

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.40	HF	0.100		SU			10/13/12 11:07	1
Temperature	21.5	HF	0.100		Degrees C			10/13/12 11:07	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Lab Sample ID: 490-8918-12

Matrix: Water

Date Collected: 10/10/12 09:25 Date Received: 10/11/12 08:15

Client Sample ID: NCPS #12

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
рН	7.40	HF	0.100		SU			10/13/12 11:07	1
Temperature	21.5	HF	0.100		Degrees C			10/13/12 11:07	1

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TestAmerica Job ID: 490-8918-1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 490-28397/1-A Client Sample ID: Method Blank **Matrix: Water**

Prep Type: Total/NA

Analysis Batch: 28402 мв мв

Prep Batch: 28397

Result Qualifier RL MDL Unit D Prepared Dil Fac Analyte Analyzed HEM 4.00 10/16/12 10:07 10/16/12 10:07 ND mg/L

Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 28402

Lab Sample ID: LCS 490-28397/2-A

Prep Type: Total/NA Prep Batch: 28397

LCS LCS Spike Added Analyte Result Qualifier Unit D %Rec Limits HEM 41.7 36.46 mg/L 87 78 - 114

Lab Sample ID: 490-8859-M-1-A MS Client Sample ID: Matrix Spike

Matrix: Water

Analysis Batch: 28402

Prep Type: Total/NA

Prep Batch: 28397

Prep Type: Total/NA

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits HEM ND 50.6 45.95 78 - 114 mg/L

Method: 410.4 - COD

Lab Sample ID: MB 490-28895/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 28895

Prep Type: Total/NA

MB MB

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Chemical Oxygen Demand ND 10.0 mg/L 10/18/12 13:24

Lab Sample ID: LCS 490-28895/4 Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 28895

LCS LCS Spike %Rec. Added Result Qualifier Unit Limits Analyte %Rec Chemical Oxygen Demand 20.0 106 21.13 mg/L 90 - 110

Lab Sample ID: LCSD 490-28895/5 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 28895

LCSD LCSD Spike %Rec. RPD Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chemical Oxygen Demand 20.0 20.94 mg/L 105 90 - 110 20

Lab Sample ID: 490-8918-1 MS Client Sample ID: NCPS #1

Matrix: Water

Prep Type: Total/NA Analysis Batch: 28895

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Chemical Oxygen Demand ND 50.0 56.63 mg/L 95 90 - 110

Prep Type: Total/NA

Prep Type: Total/NA

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

Method: 410.4 - COD (Continued)

Lab Sample ID: 490-8974-B-1 DU

Matrix: Water

Analysis Batch: 28895

Client Sample ID: Duplicate Prep Type: Total/NA

Sample Sample DU DU RPD Result Qualifier Result Qualifier RPD Limit Analyte Unit D ND ND NC **Chemical Oxygen Demand** mg/L 20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 490-27802/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 27802

мв мв

Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac Total Suspended Solids ND 1.00 10/13/12 13:26 mg/L

Lab Sample ID: LCS 490-27802/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 27802

Spike LCS LCS %Rec. Added Result Qualifier Unit %Rec Limits Total Suspended Solids 100 98 97.80 mg/L 90 - 110

Lab Sample ID: 490-8973-J-1 DU **Client Sample ID: Duplicate** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 27802

DU DU RPD Sample Sample Result Qualifier Limit Result Qualifier Unit **RPD** Total Suspended Solids ND ND NC 20 mg/L

Lab Sample ID: 490-9016-I-1 DU **Client Sample ID: Duplicate**

Matrix: Water

Analysis Batch: 27802

Sample Sample DU DU RPD Result Qualifier Result Qualifier RPD Analyte Unit Limit D Total Suspended Solids ND 1.200 mg/L 20

Method: SM 4500 H+ B - pH

Lab Sample ID: 490-8918-10 DU Client Sample ID: NCPS #10 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 27899

ı	Analysis Batom 21 000								
		Sample	Sample	DU	DU				RPD
	Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
	рН	7.20	HF	7.200		SU	_	 0	20
	Temperature	21.5	HF	21.50		Degrees C		0	20

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

General Chemistry

Analysis Batch: 27802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8918-7	NCPS #7	Total/NA	Water	SM 2540D	
490-8918-8	NCPS #8	Total/NA	Water	SM 2540D	
490-8918-9	NCPS #9	Total/NA	Water	SM 2540D	
490-8973-J-1 DU	Duplicate	Total/NA	Water	SM 2540D	
490-9016-I-1 DU	Duplicate	Total/NA	Water	SM 2540D	
LCS 490-27802/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 490-27802/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 27899

Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NCPS #10	Total/NA	Water	SM 4500 H+ B	
NCPS #10	Total/NA	Water	SM 4500 H+ B	
NCPS #11	Total/NA	Water	SM 4500 H+ B	
NCPS #12	Total/NA	Water	SM 4500 H+ B	
Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
	NCPS #10 NCPS #10 NCPS #11 NCPS #12	NCPS #10 Total/NA NCPS #10 Total/NA NCPS #11 Total/NA NCPS #12 Total/NA	NCPS #10 Total/NA Water NCPS #10 Total/NA Water NCPS #11 Total/NA Water NCPS #12 Total/NA Water	NCPS #10 Total/NA Water SM 4500 H+ B NCPS #10 Total/NA Water SM 4500 H+ B NCPS #11 Total/NA Water SM 4500 H+ B NCPS #12 Total/NA Water SM 4500 H+ B

Prep Batch: 28397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
490-8859-M-1-A MS	Matrix Spike	Total/NA	Water	1664A	
490-8918-4	NCPS #4	Total/NA	Water	1664A	
490-8918-5	NCPS #5	Total/NA	Water	1664A	
490-8918-6	NCPS #6	Total/NA	Water	1664A	
LCS 490-28397/2-A	Lab Control Sample	Total/NA	Water	1664A	
MB 490-28397/1-A	Method Blank	Total/NA	Water	1664A	

Analysis Batch: 28402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8859-M-1-A MS	Matrix Spike	Total/NA	Water	1664A	28397
490-8918-4	NCPS #4	Total/NA	Water	1664A	28397
490-8918-5	NCPS #5	Total/NA	Water	1664A	28397
490-8918-6	NCPS #6	Total/NA	Water	1664A	28397
LCS 490-28397/2-A	Lab Control Sample	Total/NA	Water	1664A	28397
MB 490-28397/1-A	Method Blank	Total/NA	Water	1664A	28397

Analysis Batch: 28895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8918-1	NCPS #1	Total/NA	Water	410.4	
490-8918-1 MS	NCPS #1	Total/NA	Water	410.4	
490-8918-2	NCPS #2	Total/NA	Water	410.4	
490-8918-3	NCPS #3	Total/NA	Water	410.4	
490-8974-B-1 DU	Duplicate	Total/NA	Water	410.4	
LCS 490-28895/4	Lab Control Sample	Total/NA	Water	410.4	
LCSD 490-28895/5	Lab Control Sample Dup	Total/NA	Water	410.4	
MB 490-28895/1	Method Blank	Total/NA	Water	410.4	

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Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

Client Sample ID: NCPS #1 Lab Sample ID: 490-8918-1 Date Collected: 10/10/12 08:30

Matrix: Water

Date Received: 10/11/12 08:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	410.4		1	28895	10/18/12 13:24	MJ	TAL NSH

Client Sample ID: NCPS #2 Lab Sample ID: 490-8918-2

Matrix: Water

Matrix: Water

Matrix: Water

TAL NSH

Date Collected: 10/10/12 08:35 Date Received: 10/11/12 08:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	410.4		1	28895	10/18/12 13:24	MJ	TAL NSH

Client Sample ID: NCPS #3 Lab Sample ID: 490-8918-3

Date Collected: 10/10/12 08:40

Date Received: 10/11/12 08:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	410.4		1	28895	10/18/12 13:24	MJ	TAL NSH

Client Sample ID: NCPS #4 Lab Sample ID: 490-8918-4 Matrix: Water

Date Collected: 10/10/12 08:45

Date Received: 10/11/12 08:15

Date Received: 10/11/12 08:15

Prep

1664A

Total/NA

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	1664A		1	28402	10/16/12 10:07	CC	TAL NSH
Total/NA	Prep	1664A			28397	10/16/12 10:07	CC	TAL NSH

Client Sample ID: NCPS #5 Lab Sample ID: 490-8918-5

Date Collected: 10/10/12 08:50

Batch Batch Dilution Prepared Batch Method Prep Type Туре Run Factor Number or Analyzed Analyst Lab Total/NA Analysis 1664A 28402 10/16/12 10:07 CC TAL NSH

Client Sample ID: NCPS #6 Lab Sample ID: 490-8918-6

28397

10/16/12 10:07

CC

Date Collected: 10/10/12 08:55 Matrix: Water Date Received: 10/11/12 08:15

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	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	1664A			28402	10/16/12 10:07	CC	TAL NSH
Total/NA	Prep	1664A			28397	10/16/12 10:07	CC	TAL NSH

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

Lab Sample ID: 490-8918-7

Matrix: Water

Client Sample ID: NCPS #7 Date Collected: 10/10/12 09:00 Date Received: 10/11/12 08:15

Batch Batch Dilution Batch Prepared Prep Type Type Method Run Factor Number or Analyzed Analyst Lab Total/NA Analysis SM 2540D 27802 10/13/12 13:26 DM TAL NSH

Client Sample ID: NCPS #8 Lab Sample ID: 490-8918-8

Matrix: Water

Date Collected: 10/10/12 09:05 Date Received: 10/11/12 08:15

Batch Batch Dilution Batch Prepared Method Factor Number or Analyzed Prep Type Type Run Analyst Lab SM 2540D 27802 10/13/12 13:26 DM TAL NSH Total/NA Analysis

Client Sample ID: NCPS #9 Lab Sample ID: 490-8918-9

Date Collected: 10/10/12 09:10 **Matrix: Water**

Date Received: 10/11/12 08:15

Batch Batch Dilution Batch Prepared Method Factor Number or Analyzed Prep Type Туре Run

Analyst Lab 27802 10/13/12 13:26 Total/NA Analysis SM 2540D DM TAL NSH

Client Sample ID: NCPS #10 Lab Sample ID: 490-8918-10 Date Collected: 10/10/12 09:15

Matrix: Water

Date Received: 10/11/12 08:15

Batch Batch Dilution Batch Prepared Method or Analyzed Prep Type Type Run Factor Number Analyst Lab Total/NA Analysis SM 4500 H+ B 27899 10/13/12 11:07 BG TAL NSH

Client Sample ID: NCPS #11 Lab Sample ID: 490-8918-11

Date Collected: 10/10/12 09:20 Matrix: Water

Date Received: 10/11/12 08:15

Batch Batch Dilution Batch Prepared Prep Type Type Method Run Factor Number or Analyzed Analyst Lab SM 4500 H+ B 10/13/12 11:07 BG TAL NSH Total/NA Analysis 27899

Lab Sample ID: 490-8918-12 Client Sample ID: NCPS #12

Date Collected: 10/10/12 09:25 **Matrix: Water**

Date Received: 10/11/12 08:15

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Analysis SM 4500 H+ B 27899 10/13/12 11:07 BG TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Method	Method Description	Protocol	Laboratory
1664A	HEM and SGT-HEM	1664A	TAL NSH
410.4	COD	MCAWW	TAL NSH
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL NSH
SM 4500 H+ B	pH	SM	TAL NSH

Protocol References:

1664A = EPA-821-98-002

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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TestAmerica Job ID: 490-8918-1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-12
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAC	9	1168CA	10-31-12
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAC	4	E87358	06-30-13
Illinois	NELAC	5	200010	12-09-12
lowa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-12
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAC	6	LA110014	12-31-12
Louisiana	NELAC	6	30613	06-30-13
Maryland	State Program		316	03-31-13
Vassachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAC	5	047-999-345	12-31-12
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAC		2963	10-09-13
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program		9412	08-31-13
Oregon	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	3	68-00585	06-30-13
Rhode Island	State Program		LAO00268	12-30-12
South Carolina	-	4	84009 (001)	02-28-13
South Carolina South Carolina	State Program	4	84009 (001)	02-23-14
	State Program			
Tennessee	State Program NELAC	4 6	2008 T104704077 00 TV	02-23-14
Texas		O	T104704077-09-TX	08-31-13
USDA	Federal	0	S-48469	11-02-13
Utah	NELAC	8	TAN 460153	06-30-13
Virginia	NELAC	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

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COOLER RECEIPT FO



Cooler Received/Opened	Or
------------------------	----

10/11/2012 @ 0815

1	Tracking #	0381
т.	racking #	

(last 4 digits, FedEx)

Courier:	<u>FedEx</u>

Nashville, TN

IR Gun ID

14740456

2.	Temperature of rep. sample or temp blank when opened:Degrees Celsius		
3.	If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen?	YES	ΝО(
4.	Were custody seals on outside of cooler?	VES.	on. (
	If yes, how many and where:		
5.	Were the seals intact, signed, and dated correctly?	YES	NO

I certify that I	opened the	cooler and	answered	auestions	1-6 (intial)

7. Were custody seals on containers:

NO and Intact YES...NO. (NA

ES...NO...NA

NA.

None

Were these signed and dated correctly?

6. Were custody papers inside cooler?

8. Packing mat'l used? Rubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

Ice (direct contact)

10. Did all containers arrive in good condition (unbroken)?

Other YES NO...NA

Dry ice

11. Were all container labels complete (#, date, signed, pres., etc)?

(ES)...NO...NA

12. Did all container labels and tags agree with custody papers?

YES)..NO...NA

13a. Were VOA vials received?

14. Was there a Trip Blank in this cooler?

9. Cooling process:

YES. NO.

b. Was there any observable headspace present in any VOA vial?

YES...NO...NA

Ice lce-pack

If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (intial)

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES b. Did the bottle labels indicate that the correct preservatives were used

16. Was residual chlorine present?

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)

17. Were custody papers properly filled out (ink, signed, etc)?

18. Did you sign the custody papers in the appropriate place? 19. Were correct containers used for the analysis requested?

20. Was sufficient amount of sample sent in each container?

I certify that I entered this project into LIMS and answered questions 17-20 (intial)

I certify that I attached a label with the unique LIMS number to each container (intial)

21. Were there Non-Conformance issues at login? YES NO Was a PIPE generated? YES NO H

10-11-12

NO...NA

.NO...NA

...ON...NA

NO...NA

Test&merica Nashville
2960 Foster Creighton Drive

Chain of Custody Record

Nashville, TN 37204		Cildili Oi	Chain of Custody Record		
Phone (615) 726-0177 Fax (615) 726-0954	Sampler	Top Div.			THE LEADER IN ENVIRONMENTAL TESTING
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Mr. Paul McMahon		ryan.fitzw	ryan.fitzwater@testamericainc.com		Page: Page 1 of 1
Conestoga-Rovers & Associates, Inc.			Analysis Reg	Requested	Job#
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Custody Seals Intact: Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:	arks:	

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 490-8918-1

Login Number: 8918 List Source: TestAmerica Nashville

List Number: 1 Creator: Ford, Easton

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

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REPORT

Storm Water Pollution Prevention Plan

Prepared for: Nabors Completion & Production Services, Inc.

Conestoga-Rovers & Associates 103 Gamma Drive Ext., Suite 110 Pittsburgh, Pennsylvania 15238

May 2013 • #075095-Rev. 1 Report Number:1



STORM WATER POLLUTION PREVENTION PLAN NABORS COMPLETION AND PRODUCTION SERVICES CO. 2802 KIBLER ROAD VAN BUREN, ARKANSAS

PERMIT NO. ARR000000 PERMIT TRACKING NO. ARR000825

Prepared For: Nabors Completion and Production Services Co. Houston, Texas

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APPENDIX A CERTIFICATIONS

- CERTIFICATION OF STORM WATER POLLUTION PREVENTION PLAN
- CERTIFICATION OF NON-STORM WATER DISCHARGES

APPENDIX B FORMS

- RECORD OF REVIEWS AND AMENDMENTS
- COMPREHENSIVE SITE COMPLIANCE EVALUATION REPORT
- STORM WATER INSPECTION REPORT
- RELEASE NOTIFICATION FORM

APPENDIX C CHEMICAL INVENTORY LIST

APPENDIX D BENCHMARK ANALYTICAL DATA

1.0 INTRODUCTION

This document constitutes the Storm Water Pollution Prevention Plan (SWPPP or Plan) for the Nabors Completion and Production Services Co. (NCPS) facility located at 2802 Kibler Road, Van Buren, Arkansas. The SWPPP has been prepared in accordance with the requirements listed in Part 4 in the Arkansas Department of Environmental Quality (ADEQ) Industrial Stormwater General Permit (IGP) for authorization to discharge under the NPDES (NPDES Permit No. ARR000000) (herein referred to as the Permit), with a ADEQ Permit Tracking Number of ARR000825. The Permit is effective through June 30, 2014.

For purposes of this Plan, the parcels and features within NCPS's property boundary will be referred to as the "Facility" or "Site". Figure 1 depicts the location of the Site.

A copy of this Plan will be maintained at the Facility, and will be made available for review by the ADEQ upon request. This SWPPP has been signed as required under the Permit (see Certification of SWPPP in Appendix A to this Plan). It should be noted that the SWPPP itself is designed to complement other existing environmental regulatory requirements, and compliance with the SWPPP is not a substitute for the fulfillment of other environmental regulatory requirements. NCPS does have an additional spill contingency to cover oil-related chemicals and fluids in compliance with 40 Code of Federal Regulations (CFR) 112. This document is entitled the Spill Prevention, Control, and Countermeasure Plan (SPCC Plan). The SPCC Plan is available for review by ADEQ and maintained at the Facility.

1.1 OBJECTIVES OF THIS PLAN

The objectives of this SWPPP are:

- Identify potential sources of pollution, which may reasonably be expected to affect the quality of storm water discharges associated with industrial activity from the facility. Storm water associated with industrial activity (defined in CFR 122.26(b)(14) includes, but is not limited to, the discharge from any conveyance which is used for collection and conveying storm water and which is directly related to manufacturing, processing or materials storage areas at an industrial plant.
- Describe practices and measures to be used in reducing the potential for pollutants to be exposed to storm water.
- Assure compliance with the terms and conditions of the Permit.

1.2 <u>AMENDING THIS SWPPP</u>

This SWPPP will be reviewed and amended as necessary:

- Whenever there is a change at the Facility, such as a change in design, operation, or maintenance that could increase the exposure of significant materials to storm water.
- Whenever an inspection or compliance evaluation determines a deficiency in the non-structural control measures.
- Whenever an official determines that a modification to the SWPPP is necessary.
- Whenever there is a spill, leak, release, or unauthorized discharge from the Facility.

A record of each review and amendment will be kept using the Record of Reviews and Amendments Form in Appendix B. The SWPPP has been amended after a compliance inspection by the ADEQ on April 5, 2013.

Any revision to the SWPPP required as a result of the Comprehensive Site Compliance Evaluation (see Section 9.0) will be completed within no more than 12 weeks of the completion of the inspection.

A copy of this Plan and of all associated reports, monitoring data, and certifications will be retained by the Facility for a minimum of 3 years.

2.0 <u>IMPLEMENTATION OF ACTIVITIES REQUIRED UNDER THIS PLAN</u>

The following activities related to the Plan will be implemented in order for the Plan to be considered complete:

Activity	Referenced In:
A duly authorized representative will sign the Plan	Appendix A
A duly authorized representative will complete and sign the Certification of Non-Storm Water Discharges	Appendix B

In addition to the actions above, the following inspection, monitoring, and certification records must be kept with this Plan:

- A copy of the Notice of Intent (NOI) submitted to the ADEQ and acknowledgment letter from ADEQ, if available.
- A copy of the Permit, Discharge Monitoring Reports (DMR) submitted to ADEQ, and analytical data provided by the laboratory.
- Descriptions of all leaks/spills or other releases that resulted in discharges of
 pollutants to surface waters through storm water or otherwise, the circumstances
 leading to the release and actions taken in response to the release, and measures
 taken to prevent the recurrance of such releases.
- Records of employee training on the SWPPP.
- Documentation of maintenance and repairs of control measures, including the dates(s) of regular maintenance, date(s) of discovery of areas in need of repair/replacement, date(s) of actual repairs, date(s) that the control measure(s) returned to full function, and the justification for any extended maintenance/repair schedules.
- All inspection reports, including the Routine Facility Inspection, the Visual Assessment Reports, and the Comprehensive Site Inspection Reports.
- Description of any deviations from the schedule for visual assessments and/or monitoring, and the reason for the deviations.
- Description of any corrective action taken at the Site, including triggering event and dates when problems were discovered and modifications occurred.

3.0 <u>FACILITY INFORMATION</u>

3.1 <u>SITE DESCRIPTION</u>

The Site is located at 2802 Kibler Road, Van Buren, Arkansas. The latitude and longitude for the center of the Site is approximately 35.345693 and -94.328012, respectively. The Facility consists of approximately 5.2 acres and includes several buildings, silos, and above ground storage tanks (AST). NCPS operates an oil field service company from the Facility. The Standard Industrial Classification (SIC) code for the Facility is 1389. The North American Industry Classification System (NAICS) code for the Facility is 213112. Operation hours are 24 hours, seven days a week. NCPS provides well stimulation (hydraulic fracturing), well-logging and cementing services associated with oil and natural gas production. NCPS also operates an elaborate fleet vehicle maintenance and fabrication program. Activities involved with oil field services are dynamic and continuously changing, as does the equipment necessitated to accommodate these changes.

The primary structures on Site include:

- Maintenance Shop building
- Storage trailers and sheds
- Chemical Storage building
- Bulk Plant Mixing building
- Silos containing cement, sand and fly ash
- ASTs (dilute hydrochloric acid, new and used oil, antifreeze and nitrogen)

Within the Maintenance Shop building there are five ASTs that contain oil and one AST that contains antifreeze. Located directly outside of the Maintenance Shop are one 330-gallon AST for storage of used oil and one 330-gallon AST for storage of used antifreeze. There are also offices located in the Maintenance Shop building.

The Chemical Storage building was constructed and completed in September 2011. The building is over 6,000 square feet and is capable of having tractor trailers load and unload chemicals within its secondary containment. The entire building is surrounded by a secondary-containment berm and has a dead-end sump located within. The new building allows all chemicals at the Facility to be stored under cover within secondary containment. Chemicals are stored primarily in sacks or 220 gallon totes. Empty drums and totes are stored on the east side of the yard and picked up by the respective vendors.

Dilute hydrochloric acid (HCl) is stored in a double-walled 4,600-gallon poly AST. The HCl AST is located on the eastern side of the Maintenance Shop within a cement block wall. A nitrogen gas AST is located south of the Bulk Plant Mixing building.

Figure 2 provides a Site Plan which identifies the primary Site features.

3.2 <u>SITE DRAINAGE AND OUTFALLS</u>

Topographic contours across the Site are relatively flat with a gradual slope toward the south/southeast. The majority of the Site is covered with permeable material (gravel, cinders, and soil) that allows precipitation to infiltrate, and only a small percentage of the ground is covered with non permeable material (i.e., asphalt or concrete).

During extremely heavy storm events, sheet flow across the Site flows toward the south and southeast. There is one catch basin located at the end of the concrete driveway from the Maintenance Building in which a 4-inch diameter pipe is present. There are not any drains inside the Chemical Storage building where the majority of materials and chemicals are stored under roof cover.

There are two drainage swales along the southern and eastern property that intercept storm water flow. Kibler Road (Arkansas State Highway 162) is immediately north of the Facility, and South 28th Street is on the west side of the Facility. There is minimal storm water run-on flow to the Facility due to the drainage swales and roads.

One storm water outfall was originally identified for the Facility and included in the NOI. During an inspection by the ADEQ on April 5, 2013, four additional outfalls were identified. The five Outfalls are shown on Figure 2 and are as follows:

- Outfall 001 farthest downgradient, south (lat. 35.43476/long. -94.32797)
- Outfall 002 at property boundary, south of Maintenance Shop (lat. 35.43550/long. -94.32872)
- Outfall 003 south and upgradient of Outfall 001 (lat. 35.43489/long. -94.32767)
- Outfall 004 eastern drainage swale (lat. 35.43567/long. -94.32714)
- Outfall 005 eastern drainage swale and east of Chemical Building (lat. 35.43592/long. -94.32713)

Four of the Outfalls (Outfall 001, 003 through 005) are located along the drainage swale at the south and east property boundaries. Outfall 002 is located south of the Maintenance Shop building.

The closest surface water body is Flat Rock Creek which is located approximately 300 feet to the south of the Site's property boundary. As determined by Site reconnaissance conducted by NCPS, the drainage swales do not directly connect with Flat Rock Creek.

4.0 POLLUTION PREVENTION TEAM

The individuals comprising the pollution prevention team and their respective responsibilities are shown in the following table. The pollution prevention team is responsible for assisting the Operations Manager in developing and revising the Facility's SWPPP (detailed in Section 1.2) as well as maintaining control measures and taking corrective actions where required. Each member of the pollution prevention team shall have ready access to applicable portions of the Permit and this Plan.

POLLUTION PREVENTION TEAM MEMBERS AND RESPONSIBILITIES

Name or Title of Team Member	Office/Mobile Phone Number	Responsibility
Fran Hoffman Operations	(479) 471-7467 office (479) 806-0901 mobile	 Update and revise the SWPPP as required by the Permit Implement the employee training program as described in Part 4 of the Permit
Manager		Update the record of spills and releases from the Facility
David Rose	(479) 471-7467 office	Conduct the Comprehensive Site Compliance Evaluation as described in Part 4.6.10.2 of the Permit.
Materials Manager	(610)-466-2389 mobile	Implement the preventative maintenance program in accordance with Best Management Practices (BMPs)

5.0 POTENTIAL SOURCES OF POLLUTION

5.1 <u>INDUSTRIAL ACTIVITIES</u>

Industrial activities are primarily conducted within and around the following Site features:

- Maintenance Shop building
- Storage trailers and sheds
- Chemical Storage building
- Bulk Plant Mixing building
- Silos containing cement, sand and fly ash
- ASTs (dilute HCl, new and used oil, antifreeze and nitrogen)
- Fleet vehicle and equipment parking

<u>Maintenance Shop</u> - within the Maintenance Shop building there are five ASTs that contain oil and one AST that contains antifreeze. Located directly outside of the Maintenance Shop are one 330-gallon AST for storage of used oil and one 330-gallon AST for storage of used antifreeze. Loading and unloading of fuels and liquids is conducted inside and outside of the Maintenance Shop.

<u>Storage Trailers and Shed</u> – Various materials and equipment are stored in on-Site trailers and sheds. NCPS personnel store and load equipment and materials into and from the trailers and sheds.

<u>Chemical Storage building</u> - Chemicals are stored inside this building and are not exposed to outdoor conditions or precipitation. Tractor trailers load and unload chemicals within its secondary containment. The entire building is surrounded by a secondary-containment berm and has a dead-end sump located within. Chemicals are stored primarily in sacks or 220-gallon totes. Empty drums and totes are stored on the east side of the yard and picked up by the respective vendors. NCPS personnel load and unload chemicals from the building.

<u>Bulk Plant Mixing building and Silos</u> – Dry materials consisting of cement, sand, and fly ash are stored in the silos west of the Mixing building. The dry materials are mixed and loaded at this location into NCPS trucks for delivery and use at the well pad sites.

<u>HCl ASTs</u> - Dilute HCl is stored in a double-walled 4,600-gallon poly AST. The HCl AST is located on the eastern side of the Maintenance Shop within a cement block wall.

<u>Equipment and Vehicle Parking</u> - NCPS's fleet of vehicles are parked on the east and south perimeters of the Site.

5.2 INVENTORY OF EXPOSED MATERIALS AND CHEMICALS

Due to the construction of the Chemical Storage building, existing silos and ASTs, there are very few chemicals or materials present in outside areas that can be exposed to precipitation. Cement, sand and fly ash that spill on the surface around the silos are promptly cleaned up by NCPS. The Chemical Storage building is constructed with a perimeter berm to act as containment in the event of a spill in the building. A listing of the chemicals and materials that are typically contained on Site are included in Appendix C.

Oil and oil-related fluids are mainly stored in the Maintenance Shop building and are addressed by the Site's SPCC Plan, and therefore, are not addressed in this SWPPP.

5.3 RISK IDENTIFICATION AND SUMMARY OF POTENTIAL POLLUTANT SOURCES

The materials at the Site that could be potentially exposed to storm water and their subsequent potential pollutant concerns are limited to the following:

- 1. Excess dry materials (cement, sand and fly-ash) adjacent to the Bulk Mixing building
 - a. Potential pollutant concern: total suspended solids (TSS)
- 2. HCl AST located on the east side of the Maintenance Shop
 - a. Potential pollutant concern: low pH
- 3. Surficial spills during loading or unloading of materials
 - a. Potential pollutant concern: dependent on material; TSS, low pH

5.4 SPILLS AND LEAKS

The ADEQ responded on May 11, 2011 to a complaint that NCPS was washing equipment on the Site without containment, and allowing wash water to drain across the Site to a nearby ditch. NCPS informed ADEQ that this practice was no longer being

conducted, and waste water is no longer generated on Site. There were no signs of a spill or release.

During an April 5, 2013 inspection, ADEQ noted evidence of a past spill on the south side along the fence line of the Facility, which is reported as a violation of Part 4.6.6.5 of the Permit. NCPS contracted Hubbs Construction (Hubbs) to excavate an area of oil-stained gravel on April 22, 2013. Hubbs removed stained gravel to a depth in which no further visible staining was observed and ranged from approximately 0.2 to 0.7 feet below existing grade. One composite sample was collected for disposal characterization using Toxicity Characteristic Leaching Procedures (TCLP). The TCLP results indicated the sample was non-hazardous and the gravel/soil was disposed of off Site at a licensed disposal facility. The area was backfilled with clean gravel.

There have not been any other reportable spills other than as noted above.

In the event of a reportable spill, the information regarding to the spill will be kept with the version of this Plan that is maintained by the Pollution Prevention Team (see Section 4.0).

5.5 SUMMARY OF SAMPLING DATA

Effluent water samples have been collected from Outfall 001 near the southern drainage swale for the parameters required in the Permit. Samples were collected on the following dates:

- October 27, 2011 (before the Permit was issued)
- October 10, 2012

The reporting period of January through June 2012 was missed in error and reported as a violation in the ADEQ's April 2013 inspection.

Copies of the Discharge Monitoring Reports (DMR) and the laboratory analytical reports are included in Appendix D. The data was compared to the recommended Benchmark Values per the Permit.

The analytical result for TSS was reported at a concentration (226 milligrams per liter) slightly above the benchmark value during the October 2011 sampling. TSS in the outfall sample is likely due to the surficial cover at the Site consisting of gravel, soil, and cinders, and the sample was turbid at the time of collection. Since the pH has been

within the range of 6.0 to 9.0 standard units, it does not appear the TSS elevated concentration is due to cement entering the storm water.

As a corrective action for the TSS exceedance, NCPS has installed sediment/silt barriers along the eastern property boundary in an effort to reduce fines and solids in run-off. The silt barriers will be adjusted as needed based on the analytical results for the Outfall sampling. If this corrective action does not resolve the issue, NCPS will evaluate further corrective actions.

Outfalls 001 through 005 will be sampled in accordance with the Permit parameters and frequency.

6.0 MEASURES AND CONTROLS

6.1 BEST MANAGEMENT PRACTICES - NON-STRUCTURAL CONTROL MEASURES

6.1.1 GOOD HOUSEKEEPING

The good housekeeping program is an ongoing program implemented to ensure a clean, orderly Facility. Additional BMPs for the Facility are included in the SPCC Plan for oil and oil-related products. The storm water good housekeeping program is part of the Facility-wide program, and is in accordance with Section 4.6.6.3 in the Permit. The equipment and the areas to be inspected under the storm water good housekeeping program, and the frequencies of the inspections, are included in Appendix B. The observations made under the program are recorded by the Facility on the Storm Water Inspection Report (see Appendix B).

To control excess, unused, dry materials in the bulk mixing area and silos from entering storm water, NCPS implements routine inspections and cleaning of these areas. NCPS has also installed silt barriers along the eastern property boundary in an effort to reduce fines and solids from run-off. As previously stated, it does not appear that cement is entering the storm water and creating an elevation in TSS concentrations.

Any deficiencies identified under the program will be corrected as quickly as reasonably possible.

6.1.2 PREVENTATIVE MAINTENANCE

The equipment and sources are inspected in accordance with the Facility's SPCC Plan BMPs, and this Plan. The observations made under the program are also recorded in the Facility's Storm Water Inspection Report.

Any deficiencies identified under the program will be corrected as quickly and reasonably as possible.

6.1.3 SPILL PREVENTION AND RESPONSE PROCEDURES

The areas where potential spills can occur are described in Section 5.2. Additional spill response procedures are included in the SPCC Plan for the Facility. The procedures for responding to and cleaning up spills are as follows:

Any employee discovering a spill will:

- i) Notify their supervisor and/or the Facility Manager. Once the employee notifies the supervisor, the supervisor will notify the Facility Manager.
- ii) Contain the spill, to the extent possible to do safely, using the equipment located in one of the Facility's spill kits.

In the event of a potential release of chemicals or substances from the Site, the Facility Manager is responsible for:

- i) Evaluating the situation and the potential for the emergency to intensify.
- ii) Identifying the type, quantity, and source of the spill.
- iii) Activating personnel to contain and clean up the spill, and to prevent any additional spillage.
- iv) Estimating the volume discharged from the Site as a result of the spill, and making all appropriate emergency notifications (see below).
- v) Arranging for all spilled material to be adsorbed in granular absorbent or manually removed and placed in drums. The waste generated will be characterized and properly disposed of or reclaimed at an approved facility.

If a release of a materials or chemicals from the Facility is greater than the reportable quantity (RQ), or results in a sheen on the waters of the State, the Facility Manager will enter the information required in the Release Notification Form in Appendix B and use that information when notifying:

1.	National Response Center (NRC)	1-800-424-8802
2.	Crawford County Department of Emergency Response	(479) 471-3260
3.	Arkansas Department of Emergency Management	1-800-322-4012
4.	Van Buren Fire Department	(479) 471-5031 / 911

For cleanup of spilled material after mitigation of spill, call HMER One, Inc. at (972) 775-6894 or Northwest Hazmat, Inc. at 1-800-597-1323. All spills which enter or threaten to enter the wastewater municipal sewer system must be reported to Van Buren Municipal Utilities at (479) 474-5067.

6.1.4 EMPLOYEE TRAINING

Appropriate personnel at all levels of responsibility in the Facility will be trained annually on the objectives and components of the Plan. The training will include emphasis on:

- The contents of this SWPPP
- The spill prevention and response procedures described in Section 6.1.3 above

6.2 BEST MANAGEMENT PRACTICES - STRUCTURAL CONTROL MEASURES

As previously described in Section 5.2., the only foreseeable significant source of potential pollution to storm water would be from a release of a surficial spill during loading or unloading of materials, from excess, unused cement, sand and fly ash around silos and the mixing building, or from the HCl AST. All other potential sources are housed indoors and under cover with secondary containment measures to ensure that they do not contribute to storm water pollution.

NCPS has spill control equipment and materials, such as absorbent socks and absorbent pads, granular oil dry material, and shovels in the immediate vicinity of the loading and unloading areas, the Chemical Storage building, and the HCl AST.

The 4,600-gallon double-walled AST containing dilute HCl is and enclosed within a concrete block containment wall located on a cement pad. Precipitation and storm water do not typically accumulate within the secondary containment structure. NCPS checks the AST on a routine basis in accordance with the requirements in this Plan. Spill pans are used during loading and unloading of acid from the AST. In addition, NCPS personnel are present during product loading and unloading from this AST.

BMPs consisting of good housekeeping are implemented for the silos and mixing building to prevent materials from entering storm water.

TSS concentrations have exceeded the Permit benchmark levels in Outfall 001 sampling. Therefore, NCPS has implemented sediment/silt barrier controls (silt fence and silt socks) to mitigate fines and solids from the gravel across the Site from entering the surface water through run off.

7.0 NON-STORM WATER DISCHARGES

There are no discharges at the Facility of the authorized non-storm waters as described in Part 4.6.7 of the Permit.

7.1 EVALUATION OF NON-STORM WATER DISCHARGES

See the Certification of Non-Storm water Discharges in Appendix A which certifies that all discharges have been tested or evaluated for the presence of any non-storm water discharge which is not authorized under the Permit.

To check for non-storm water discharges, one or more of the following methods were used at each storm water outfall.

<u>Visual Inspection</u>

Inspect each discharge point during dry weather on three separate occasions. As a rule, the discharge point should be dry during a period of extended dry weather since a storm water collection system should only collect storm water. To be sure about the source of any flow during dry weather, one of the additional tests described below may be performed.

Sewer Map

A review of a sewer map or plant schematic is another way to determine if there are any interconnections into the Facility's storm water collection system. A sewer map or plant schematic is a map of pipes and drainage systems used to carry process wastewater, non-contact cooling water, air conditioner condensate, and sanitary wastes (bathroom, sinks, etc.). If an accurate and reliable plant schematic exists, the pathways of the different water circuits may be examined. Also, floor drain discharges should be investigated since these may not drain into the storm water system.

Dye Testing

Another method for detecting improper connections to the storm water collection system is dye testing. Dye testing can be performed by simply releasing a dye into either the sanitary or process wastewater system and examining the discharge points from the storm water collection system for discoloration.

7.2 SEDIMENT AND EROSION CONTROL AND MANAGEMENT OF RUN-ON AND RUNOFF

The topography of the Site is generally flat around the buildings, and is graded so that runoff is contained on the Site. There is minimal storm water run-on flow to the Facility due to the drainage swales and roads. The Site is primarily covered with gravel, cinders, soil, or vegetation. Storm water in the flat areas either percolates into the ground or flows slowly as sheet flow and remains on Site as shown on Figure 2. As a result, there are limited areas with a high potential for soil erosion.

However, TSS concentrations have exceeded the Permit benchmark levels in Outfall 001 sampling. Therefore, NCPS has implemented sediment/silt barrier controls (silt fence and/or silt socks) along the east property boundary to mitigate fines and solids from the surficial materials across the Site from entering the storm water flow and discharging through outfalls.

8.0 <u>SAMPLING AND MONITORING</u>

NCPS will comply with the sampling and monitoring for Outfalls 001 through 005 as required by the Permit. Part 3 of the Permit describes the monitoring, parameters, and frequency requirements. The samples will be collected at a point representative of each Outfall (if not dry) discharge, but prior to entry into the drainage swale.

9.0 COMPREHENSIVE SITE COMPLIANCE EVALUATION

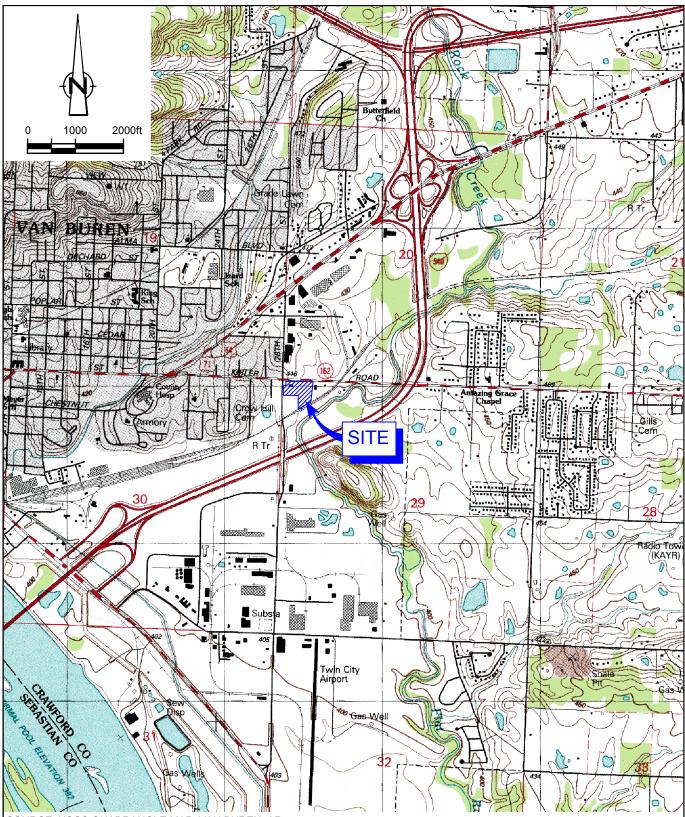
A Comprehensive Site Compliance Evaluation will be performed at least once per year by the Operations Manager to confirm the accuracy of the description of potential pollution sources contained in the Plan, determine the effectiveness of the Plan, and assess compliance with the Permit. This evaluation shall provide:

- 1) Areas contributing to a storm water discharge associated with industrial activity shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the Permit or whether additional control measures are needed. Structural storm water management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the Plan shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the Plan, such as spill response equipment shall be made.
- 2) Based on the results of the evaluation, the description of potential pollutant sources identified in the Plan (Section 5.2, in accordance with Part 4.6.5 of the Permit) and pollution prevention measures and controls identified in the Plan shall be revised as appropriate within the timeframes contained in the Permit.
- 3) A report summarizing the scope of the evaluation, personnel making the evaluation, the date(s) of the evaluation, major observations relating to the implementation of the Plan, and actions taken in accordance with the above paragraph must be documented and either contained in, or have on-Site record keeping location referenced in, the Plan at least 3 years after the date of the evaluation.
- 4) Where compliance evaluation schedules overlap the routine quarterly inspections required in the Permit, the compliance evaluation may be conducted in place of one such inspection.

The results will be recorded on the Comprehensive Site Compliance Evaluation report presented in Appendix B. The report will be signed by a duly authorized signatory and retained with this SWPPP for 3 years.

10.0 SECTION 303 CHEMICALS AND TOTAL MAXIMUM DAILY LOAD

Storm water discharges from the Facility does not enter a water body that is on the most recent 303 (d) list, or with an approved Total Maximum Daily Load (TMDL). As previously noted, the closest major surface water body is Flat Rock Creek, which is located approximately 300 feet south of the Site's property boundary, and storm water enters a drainage swale on Site but it does not drain to this creek.

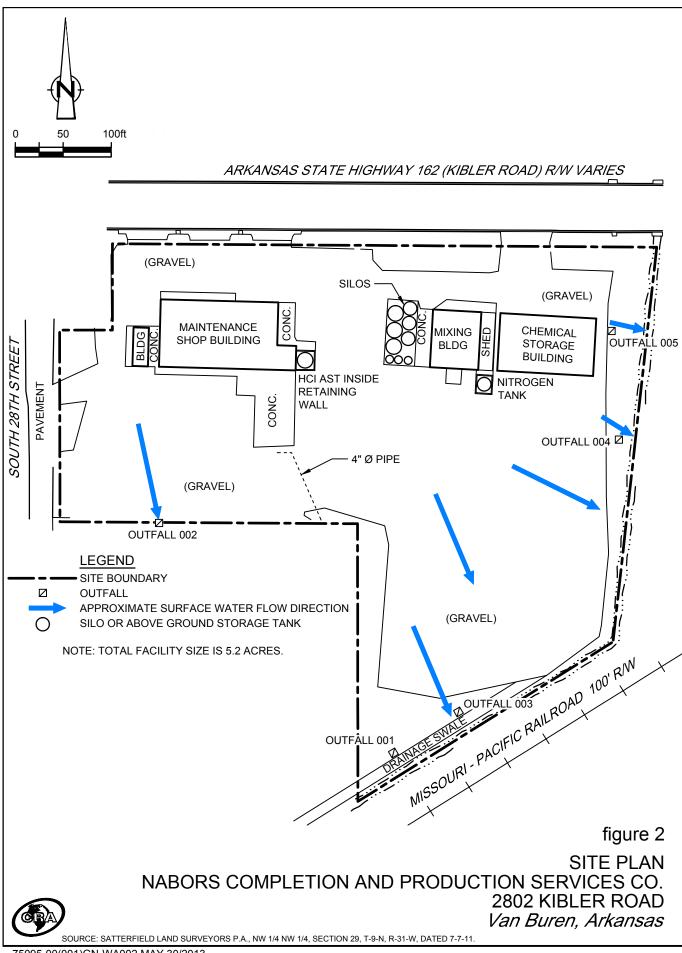


SOURCE: USGS QUADRANGLE MAP: VAN BUREN, AR.

figure 1

SITE LOCATION MAP NABORS COMPLETION AND PRODUCTION SERVICES CO. 2802 KIBLER ROAD Van Buren, Arkansas





APPENDIX A CERTIFICATIONS

CERTIFICATION OF THIS STORM WATER POLLUTION PREVENTION PLAN NABORS COMPLETION AND PRODUCTION SERVICES CO. 2802 KIBLER ROAD VAN BUREN, ARKANSAS

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 gathered and evaluated 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 knowing violations.

Authorized	Re	preser	ntative
Aumonzeu	иe	preser	nanve

Signature: Pat Wellin

Name: Patrick Kellam

Title: Environmental Manager

Date: May 30, 2013

CERTIFICATION OF NON-STORM WATER DISCHARGES

Facility: NABORS COMPLETION AND PRODUCTION SERVICES CO. 2802 KIBLER ROAD, VAN BUREN, ARKANSAS
Date of testing and/or evaluation: May 10, 2013
Description of any potential significant sources of non-storm water:
No potential significant sources of non-storm water were identified.
Description of the results of any test and/or evaluation of each potential source for the presence
of non-storm water discharges:
Not applicable - no potential sources identified.
Description of the evaluation criteria or testing method used: <u>Visual and review of existing Site facility drawings.</u>
List of the outfalls and on-Site drainage points that were directly observed during the test:
The entire perimeter of the Site was observed, including Outfalls 001 through 005.
Certification: I hereby certify that all discharges (i.e., Outfalls 001 through 005) have been tested or evaluated for the presence of non-storm water.
Signature: Pat Kellin
Print name: Patrick Kellam

May 10, 2013

Date:

APPENDIX B

FORMS

RECORD OF REVIEWS AND AMENDMENTS

RECORD OF REVIEWS AND AMENDMENTS STORM WATER POLLUTION PREVENTION PLAN NABORS COMPLETION AND PRODUCTION SERVICES CO. 2802 KIBLER ROAD VAN BUREN, ARKANSAS

INSTRUCTIONS FOR COMPLETING THE RECORD BELOW

For the review of the Storm Water Pollution Prevention Plan (Plan):

- 1. Insert the date of completion of the review of the Plan
- 2. Circle whichever of the words "does" or "does not" is applicable, and delete whichever is not applicable
- 3. Sign the record

If the Plan requires amendment as a result of the review:

- 1. Insert the date of completion of the amendment(s) to the Plan
- 2. Circle whichever of the words "did" or "did not" is applicable, and delete whichever is not applicable
- 3. Sign the record

This Plan was reviewed on May 15, 2013, ar Name of Reviewer:	nd does/does not as a result require amendment. Signature of Reviewer:
Patrick Kellam	Pat Kellin
If the Plan required amendment, the amend	lment was completed on May 30, 2013.
Name of Person making Amendments:	Signature of Person making Amendments:
Daniel P. Cusick	Ditt.Cik
This Plan was reviewed onamendment.	, and does / does not as a result require
Name of Reviewer:	Signature of Reviewer:
If the Plan required amendment, the amend Name of Person making Amendments:	dment was completed on Signature of Person making Amendments:

RECORD OF REVIEWS AND AMENDMENTS (CONTINUED)

This Plan was reviewed onamendment.	·
Name of Reviewer:	Signature of Reviewer:
If the Plan required amendment, the amendme	ent was completed on
Name of Person making Amendments:	Signature of Person making Amendments:
This Plan was reviewed onamendment.	, and does / does not as a result require
Name of Reviewer:	Signature of Reviewer:
If the Plan required amendment, the amendme	ent was completed on
Name of Person making Amendments:	Signature of Person making Amendments:
This Plan was reviewed onamendment.	, and does / does not as a result require
Name of Reviewer:	Signature of Reviewer:
If the Plan required amendment, the amendme	ent was completed on
Name of Person making Amendments:	Signature of Person making Amendments:

COMPREHENSIVE SITE COMPLIANCE EVALUATION REPORT

COMPREHENSIVE SITE COMPLIANCE EVALUATION REPORT NABORS COMPLETION AND PRODUCTION SERVICES CO. 2802 KIBLER ROAD VAN BUREN, ARKANSAS

Date:	Time:	
Inspected by (print name):		
Signature:		

Areas Inspected*	Observations	Actions Taken
Drainage swales and		
Outfalls are clear of debris		
Silt Fencing and Silt Socks		
are installed and in good		
shape		
HCl AST and		
containment		
Cement, Sand and Fly-		
Ash Silos (outside only)		
Empty drums, totes and		
debris		
Oil Storage inside		
Maintenance Shop		
Building		
Loading/Unloading areas		

- * = The areas identified in the above table must be inspected for:
- Industrial materials, residue, or trash that could be carried into a storm sewer
- Leaks or spills
- Unauthorized storm water discharges
- Off-Site tracking of industrial materials
- Tracking or blowing of raw, final, or waste materials from areas of no exposure (e.g., inside the building) to exposed areas (e.g., outside the building)
- Evidence of, or the potential of, pollutants entering the storm sewer

All the observations of non-compliance in the above table must be addressed prior to the next storm, if practicable, but no more than 12 weeks after the date of the inspection.

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 knowing violations.

Signature of duly authorized representative of NABORS COMPLETION AND PRODUCTION SERVICES CO.

Printed name of duly authorized representative of

NABORS COMPLETION AND PRODUCTION SERVICES CO.

Page 2 of 2 075095 (1) (Rev.1)

STORM WATER INSPECTION REPORT

STORM WATER INSPECTION REPORT NABORS COMPLETION AND PRODUCTION SERVICES CO. 2802 KIBLER ROAD VAN BUREN, ARKANSAS

Inspector:		D	ate:			
Answer the questions below action	with "Y" (= Y	(es) or "N" (= No). If your	answer is	No, take co	orrective
Inspection Items	HCl AST	Silos and Mixing Bldg				
Item/Device/Area is in good condition?						
Free of leaks?						
Foundation for containment in good condition?						
Water removed from dike or area if applicable?						
Piping all leak-free?						
Inspection of spill control equi	nmont and me	ntorials at loading	and unlos	ding area		
Are the following equipment/n				iuilig aleas	-	
Booms, absorbent pads,			<u>Idition:</u>			
Sediment control Silt fe			n good sha			
Seament Control Shi le.		eks instance and i	11 good 511c			
Inspection of Discharge in Stor			ugh 005			
Drain and discharge free of shee	en or of any un	usual discharge?				
Corrective actions:						
Comments:						

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RELEASE NOTIFICATION FORM

RELEASE NOTIFICATION FORM NABORS COMPLETION AND PRODUCTION SERVICES CO. 2802 KIBLER ROAD VAN BUREN, ARKANSAS

Name of person making noti	ification:		
Phone number of person ma	king notification:		
Facility Information: Facility name and address:	Nabors Completion and Prod- 2802 Kibler Road, Van Buren,		Co.
Facility ID #:			
Latitude and longitude:Date and time of the release:	35.435693°, -94.328012°		
Source and cause of the relea	ase:		
Type of material released: _			
Estimated quantity of materi	al released:		
Streams/rivers/bodies of wa	ater, which have been or may be	affected by the	release (circle one)
Flat Rock Creek			
Injuries caused by the release	e:		
Damage caused by the releas	se:		
Whether evacuation was/wi	ll be necessary (circle one):	Yes	No
Steps being taken or propose	ed to contain and clean up the re	elease:	
Estimated quantity and disp	osition of any recovered materia	als:	

Names of authorities who have also been/will also be contacted if the release is reportable:

- National Response Center: 1-800-424-8802
- Arkansas Department of Emergency Management: 1-800-322-4012

APPENDIX C CHEMICAL INVENTORY LIST

Product Name	CAS Number	Chemical
Class A cement	12168-85-3	Tri-calcium silicate
Class H Cement	65997-15-1	Portland cement clinker
Silica Flour	014808-60-7	Quartz silicon dioxide
Fly Ash	7631-86-9	Ampohous silica hydrated
IC-100	77-92-9	2-hydroxl-1,2,3 Propanetricarboxic acid
Methanol	67-56-1	Methanol
No Foam 3	64742-54-7	Distillates (petroleum)
OB-Fe	57-55-6	Propylene glycol
	7782-63-0	Ferrous sulfate, heptahydrate
Propane	98-6	Propane
Sand	14808-60-7	Silica quartz
SAS-2	64742-47-8 8052-41-3	Hydrotreated light distillates
	57-55-6	Mineral spirits
	68551-12-2	Propylene glycol Ethoxylated alcohols
Super NE-100	67-63-0	Isopropyl alcohol
	111-76-2	Glycol ethers
SAS-2 Breaker	7782-63-0 77-92-9	Ferrous sulfate heptahydrate Citrus acid
Super Max	67-63-0	Isopropyl alcohol
	111-76-2	Glycol ethers
	104-76-7	Ethylhexanol
Super Penn 2000	104-76-7	Ethylhexanol
AI-2 Inhibitor	111-76-2	Glycol ether
	107-19-7	Propargyl alcohol
	67-63-0	Isopropyl alcohol

Product Name	CAS Number	Chemical
OW-3	67-63-0	Isopropyl alcohol
pH-15L	1310-73-2	Sodium hydroxide
	7647-14-5	Sodium chloride
Motor oil, packing oil, hydraulic oil.	64742-54-7	Lubricating oil base stock
Gear oil	64741-88-4	Lubricating oil base stock
Anti freeze	107-21-1	Ethylene glycol
Parts cleaners / paint thinners	8052-41-3	Petroleum distillates mineral spirits
Misc automotive	108-88-3	Possible Toluene
maintenance chemicals	1330-20-7	
pH-14	497-41-8	Sodium carbonate
pH-4	110-17-8	Fumaric acid
Wfr3-b	64742-47-8	Hydrotreated Light Distillate
Super Sil SP	1344-09-8	Sodium Silicate

APPENDIX D

DISCHARGE MONITORING REPORTS AND ANALYTICAL DATA

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY STORMWATER DISCHARGE MONITORING REPORT (DMR)

FACILITY Superior Well Services, Inc., Van Buren, AR ADDRESS: SECTOR: Benchmark Value Benchmark Value Chemical Oxygen Demand (COD) Total Suspended Solids (TSS) PARAMETER Benchmark Value Benchmark Value DIANUARY-JUNE DIANU			` ,				
NAME: Inc., Van Buren, AR ADDRESS: Buren, AR 72956 INDUSTRIAL SECTOR: I1 OUTFALL NO: REPORTING YEAR: 2011 PARAMETER Benchmark Value JANUARY-JUNE JULY-DECEMBER Chemical Oxygen Demand (COD) 120 NA 46.3 mg/L Total Suspended Solids (TSS) 100 NA 2266 mg/L Oil and Grease (O&G) 15 NA 6.10 mg/L pH 6.0-9.0 NA 8.00 S.U. PARAMETER Benchmark Value JULY-DECEMBER NA NO: NA 18.00 S.U. Comments: Permit was approved on 11-28-11. The data included in the 2010 DMR was collected for the NOI submittal, and additional data in 2011 was not collected. TSS exceeded the benchmark value. Upon review of the data and sampling methodology used, it was determined that the sampler may have intentionally gathered sediment in the sample bottle. The employee was disgruntled and is no longer employed at the facility. I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN: AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION SUBMITTED HEREIN: AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION SUBMITTED HEREIN: AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION SUBMITTED HEREIN: AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION, I BELIEVE THE SUBMITTED INFORMATION, I BELIEVE THE SUBMITTED INFORMATION, I DELIEVE THE SUBMITTED INFORMATION, I DELIEVE THE SUBMITTED INFORMATION, I BELIEVE THE SUBMITTED INFORMATION, INCLUDING THE POSSIBILITY	PERMIT NUMBER: ARR000825		PERMITTEE NAME:		-		
INDUSTRIAL SECTOR: II OUTFALL NO: REPORTING YEAR: 2011 PARAMETER Benchmark Value JANUARY-JUNE JULY-DECEMBER Chemical Oxygen Demand (COD) 120 NA 46.3 mg/L Total Suspended Solids (TSS) 100 NA 226 mg/L Oil and Grease (O&G) 15 NA 66.10 mg/L pH 6.0-9.0 NA 8.00 S.U. NA NOT Available JANUARY-JUNE JULY-DECEMBER NA NOT Available JANUARY-JUNE JULY-DECEMBER Date of Storm Event Sampled: JANUARY-JUNE JULY-DECEMBER Date of Storm Event Sampled: 10-27-11 Duration of Event: NA hours Estimate of Rainfall Event: 1.25 inches Time Since Last Measurable Event: 5 days Estimate of Total Discharged Volume: NA agallons Comments: Permit was approved on 11-28-11. The data included in the 2011 DMR was collected for the NOI submittal, and additional data in 2011 was not collected. TSS exceeded the benchmark value. Upon review of the data and sampling methodology used, it was determined that the sample may have intentionally gathered sediment in the sample bottle. The employee was disgruntled and is no longer employed at the facility. I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS ITRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SUBMITTED INFORMATION IS ITRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SUBMITTED INFORMATION IS ITRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SUBMITTED INFORMATION IS ITRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SUBMITTED INFORMATION IS ITRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE					2802 Kible	r Road	l, Van
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Sampling Period: Date of Storm Event Sampled: Duration of Event: Estimate of Rainfall Event: Time Since Last Measurable Event: Estimate of Total Discharged Volume: Comments: Permit was approved on 11-28-11. The data included in the 2011 DMR was collected for the NOI submittal, and additional data in 2011 was not collected. TSS exceeded the benchmark value. Upon review of the data and sampling methodology used, it was determined that the sampler may have intentionally gathered sediment in the sample bottle. The employee was disgruntled and is no longer employed at the facility. I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY							
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Duration of Event: Estimate of Rainfall Event: Time Since Last Measurable Event: Estimate of Total Discharged Volume: Comments: Permit was approved on 11-28-11. The data included in the 2011 DMR was collected for the NOI submittal, and additional data in 2011 was not collected. TSS exceeded the benchmark value. Upon review of the data and sampling methodology used, it was determined that the sampler may have intentionally gathered sediment in the sample bottle. The employee was disgruntled and is no longer employed at the facility. I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY	Sampling Period:		JANUARY-JUN	VE JUL	Y-DECEMBER		
Estimate of Rainfall Event: Time Since Last Measurable Event: Estimate of Total Discharged Volume: Comments: Permit was approved on 11-28-11. The data included in the 2011 DMR was collected for the NOI submittal, and additional data in 2011 was not collected. TSS exceeded the benchmark value. Upon review of the data and sampling methodology used, it was determined that the sampler may have intentionally gathered sediment in the sample bottle. The employee was disgruntled and is no longer employed at the facility. I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY	-			10-2	27-11		
Time Since Last Measurable Event: Estimate of Total Discharged Volume: Comments: Permit was approved on 11-28-11. The data included in the 2011 DMR was collected for the NOI submittal, and additional data in 2011 was not collected. TSS exceeded the benchmark value. Upon review of the data and sampling methodology used, it was determined that the sampler may have intentionally gathered sediment in the sample bottle. The employee was disgruntled and is no longer employed at the facility. I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY						_	
Estimate of Total Discharged Volume: NA gallons		_			5	_	
Comments: Permit was approved on 11-28-11. The data included in the 2011 DMR was collected for the NOI submittal, and additional data in 2011 was not collected. TSS exceeded the benchmark value. Upon review of the data and sampling methodology used, it was determined that the sampler may have intentionally gathered sediment in the sample bottle. The employee was disgruntled and is no longer employed at the facility. I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY							
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	was collected for the NOI subme the benchmark value. Upon revenue that the sampler may have intendisgruntled and is no longer employed. I CERTIFY UNDER PENALTY OF WITH THE INFORMATION SUINDIVIDUALS IMMEDIATELY RESUBMITTED INFORMATION IS TO SIGNIFICANT PENALTIES FOR SUBMITTED TO SIGNIFICANT PENALTIES SUBMITTED SUBMITTED SUBMITTED SUBMITTED SUBMITTED SUBMITTED SUBMITTED SUBMITTED SUBMITTE	ittal, and additionally gate ployed at the ELAW THATE BMITTED INTERPORTED INTE	Iditional data in ata and sampli hered sediment e facility. F I HAVE PERS HEREIN; AND E FOR OBTAIN RATE AND COM	n 2011 was ng method t in the san ONALLY E BASED O ING THE I MPLETE. I	s not collected. To lology used, it was nple bottle. The sexual representation of the lology used, it was nple bottle. The sexual representation of the lology used in the lology used, it was not because the lology used in the lology used in the lology used, it was not because the lology used in th	CSS exc s deter employ AM FA Y OF BELIE AT THE	mined vee was MILIAR THOSE VE THE RE ARE

Printed Name & Title of Official

Signature & Date



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville 2960 Foster Creighton Road Nashville, TN 37204 Tel: 800-765-0980

TestAmerica Job ID: NUJ3719

Client Project/Site: 075095

Client Project Description: SWSI - Van Buren, AR Storm Water

For:

Conestoga Rovers Associates - Niagara Falls (8571) 2055 Niagara Falls Boulevard Ste#3 Niagara Falls, NY 14304

Attn: Paul McMahon

Authorized for release by: 11/4/2011 3:01:49 PM

Um Byan Fitzuata

Ryan Fitzwater Project Manager

Ryan.Fitzwater@testamericainc.com



This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Conestoga Rovers Associates - Niagara Falls (8571)

Project/Site: 075095

TestAmerica Job ID: NUJ3719

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUJ3719-01	001	Water	10/27/11 10:14	10/28/11 08:40

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4.6

Case Narrative

Client: Conestoga Rovers Associates - Niagara Falls (8571)

Project/Site: 075095

TestAmerica Job ID: NUJ3719

Job ID: NUJ3719

Laboratory: TestAmerica Nashville

Narrative

All samples were received in good condition, properly preserved, and properly labeled. All analyses were completed within holding times. There were no relevant protocol specific QC and/or performance standard non-conformances to report with the following exceptions:

No COD EPA 410.4 matrix spike or matrix spike duplicate data reported for batch 11J7239. The source sample required a dilution which diluted the compounds below the detection limit. See blank spike.

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Definitions/Glossary

Client: Conestoga Rovers Associates - Niagara Falls (8571)

Toxicity Equivalent Quotient (Dioxin)

Project/Site: 075095

TestAmerica Job ID: NUJ3719

Qualifiers

WetChem

Qualifier	Qualifier Description
MNR	No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this,
	the spike compounds were diluted below the detection limit.
TCLP	
Qualifier	Qualifier Description

The holding time for this test is immediate. The laboratory measurement, therefore, may not be suitable for compliance purposes.

Glossary

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
‡	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA .	United States Environmental Protection Agency
MDL	Method Detection Limit
ИL	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
ΓEF	Toxicity Equivalent Factor (Dioxin)

Client Sample Results

Client: Conestoga Rovers Associates - Niagara Falls (8571)

Project/Site: 075095

pН

Client Sample ID: 001

Date Collected: 10/27/11 10:14

Date Received: 10/28/11 08:40

Lab Sample	ID: NUJ3719-01
------------	----------------

TestAmerica Job ID: NUJ3719

Matrix: Water

Analyte	Regult	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand -	46.3		10.0	2.00	mg/L		10/31/11 14:23	11/02/11 09:19	1.00
- Method: SM2540 D - General Ch	nemistry Parame	eters							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	226		10.0	5.00	mg/L		11/01/11 15:34	11/01/11 15:34	10.0
_ Method: EPA 1664A - General C	hemistry Paran	neters							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease HEM	ND		6.10	1.59	mg/L		10/31/11 11:30	10/31/11 15:24	1.00
– Method: EPA 170.1 - General CI	nemistry Param	eters							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature of pH	21.0	HTI	0.00		Deg C		10/28/11 17:15	10/29/11 17:15	1.00
_determination									
– Method: SW846 9040C - Genera	I Chemistry Par	ameters							
Analyte	•	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac

0.100

8.00 HTI

0.100 pH Units

10/28/11 17:15

10/29/11 17:15

1.00

TestAmerica Nashville 11/4/2011

Project/Site: 075095

Chemical Oxygen Demand

Method: EPA 410.4 - General Chemistry Parameters

Lab Sample ID: 11J7239-BLK1

Matrix: Water

Prep Type: Total
Analysis Batch: 11J7239

Prep Batch: 11J7239_P

Blank Blank

Lab Sample ID: 11J7239-BS1

Matrix: Water

Analysis Batch: 11J7239

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J7239

Prep Batch: 11J7239

Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit D %Rec Limits

20.0

Lab Sample ID: 11J7239-DUP1 Client Sample ID: 001

Matrix: Water Prep Type: Total Analysis Batch: 11J7239 Prep Batch: 11J7239_P

19.5 MNR

mg/L

98

90 - 110

Sample
AnalyteSample
Result
Chemical Oxygen DemandSample
Result
46.3Duplicate
Result
QualifierUnitDRPDLimitResult
Mg/L46.345.345.3mg/L210

Method: SM2540 D - General Chemistry Parameters

Lab Sample ID: 11J7120-BLK1

Matrix: Water

Client Sample ID: Method Blank

Prep Type: Total

Analysis Batch: 11J7120 Prep Batch: 11J7120_P

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac ND 1.00 0.500 11/01/11 15:34 11/01/11 15:34 Total Suspended Solids ma/L 1 00

Lab Sample ID: 11J7120-BS1

Matrix: Water

Client Sample ID: Lab Control Sample

Prep Type: Total

Analysis Batch: 11J7120

Prep Batch: 11J7120_P

Spike LCS LCS

Rec.

 Analyte
 Added
 Result
 Qualifier
 Unit
 D
 %Rec
 Limits

 Total Suspended Solids
 100
 98.6
 mg/L
 99
 90 - 110

Lab Sample ID: 11J7120-DUP1 Client Sample ID: Duplicate

Matrix: Water

Analysis Batch: 11J7120 Prep Batch: 11J7120_P

 Sample
 Sample
 Duplicate
 Duplicate
 Duplicate
 PD
 RPD

 Analyte
 Result
 Qualifier
 Result
 Qualifier
 Unit
 D
 RPD
 Limit

 Total Suspended Solids
 ND
 ND
 mg/L
 5

Lab Sample ID: 11J7120-DUP2

Client Sample ID: Duplicate

Matrix: Water Prep Type: Total Analysis Batch: 11J7120 Prep Batch: 11J7120_P

SampleSampleDuplicateUpplicateAnalyteResultQualifierResultQualifierUnitDRPDLimitTotal Suspended Solids0.900NDNDmg/LTotal mg/L

Project/Site: 075095

Method: EPA 1664A - General Chemistry Parameters

Lab Sample ID: 11J7059-BLK1 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total** Analysis Batch: 11J7059 Prep Batch: 11J7059 P

Blank Blank

Result Qualifier RL MDL Unit D Dil Fac Analyte Prepared Analyzed Oil & Grease HEM ND 5.21 1.35 mg/L 10/31/11 11:30 10/31/11 15:24 1.00

Lab Sample ID: 11J7059-BS1 Client Sample ID: Lab Control Sample **Matrix: Water Prep Type: Total** Analysis Batch: 11J7059 Prep Batch: 11J7059_P LCS LCS Spike %Rec.

Added Result Qualifier Analyte Unit D %Rec Limits Oil & Grease HEM 40.0 36.6 mg/L 91 78 - 114

Lab Sample ID: 11J7059-BSD1 Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total**

Analysis Batch: 11J7059 Prep Batch: 11J7059_P LCS Dup LCS Dup Spike %Rec. RPD Added Result Qualifier Unit D %Rec Limits RPD Limit Oil & Grease HEM 40.0 37.5 mg/L 78 - 114

Client Sample ID: Matrix Spike Lab Sample ID: 11J7059-MS1 **Prep Type: Total**

Matrix: Water

Analysis Batch: 11J7059 Prep Batch: 11J7059 P

Sample Sample Spike Matrix Spike Matrix Spike %Rec. Added Result Qualifier Analyte Result Qualifier %Rec Limits Oil & Grease HEM 40.0 41.5 mg/L 103 0.238 78 114

Method: EPA 170.1 - General Chemistry Parameters

Lab Sample ID: 11J6896-DUP1 Client Sample ID: Duplicate **Matrix: Water Prep Type: Total** Analysis Batch: 11J6896 Prep Batch: 11J6896 P

Sample Sample **Duplicate Duplicate** RPD Result Qualifier Result Qualifier Unit D RPD Limit Analyte Temperature of pH determination 21.0 Deg C 21.0 0 200

Method: SW846 9040C - General Chemistry Parameters

Lab Sample ID: 11J6896-BS1 Client Sample ID: Lab Control Sample **Matrix: Water Prep Type: Total**

Analysis Batch: 11J6896 Prep Batch: 11J6896 P

LCS LCS Spike %Rec. Result Qualifier Analyte Added Unit %Rec Limits pН 7.00 7.03 pH Units 100 95 - 105

Lab Sample ID: 11J6896-BSD1 Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total** Analysis Batch: 11J6896 Prep Batch: 11J6896 P Spike LCS Dup LCS Dup %Rec. RPD

Analyte Added Result Qualifier Unit %Rec Limits RPD Limit рН 7.00 7.05 pH Units 101 95 - 105 0.3

QC Sample Results

Client: Conestoga Rovers Associates - Niagara Falls (8571)

TestAmerica Job ID: NUJ3719 Project/Site: 075095

Method: SW846 9040C - General Chemistry Parameters (Continued)

Lab Sample ID: 11J6896-DUP1 Client Sample ID: Duplicate **Matrix: Water Prep Type: Total** Analysis Batch: 11J6896 Prep Batch: 11J6896_P

Sample Sample **Duplicate Duplicate** RPD Result Qualifier Result Qualifier Unit D RPD Limit Analyte pH Units 0 10 рН 7.40 7.40

QC Association Summary

Client: Conestoga Rovers Associates - Niagara Falls (8571)

Project/Site: 075095

TestAmerica Job ID: NUJ3719

WetChem

Analysis Batch: 11J7120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7120-BLK1	Method Blank	Total	Water	SM2540 D	11J7120_P
11J7120-BS1	Lab Control Sample	Total	Water	SM2540 D	11J7120_P
11J7120-DUP1	Duplicate	Total	Water	SM2540 D	11J7120_P
11J7120-DUP2	Duplicate	Total	Water	SM2540 D	11J7120_P
NUJ3719-01	001	Total	Water	SM2540 D	11J7120_P

Analysis Batch: 11J7239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7239-BLK1	Method Blank	Total	Water	EPA 410.4	11J7239_P
11J7239-BS1	Lab Control Sample	Total	Water	EPA 410.4	11J7239_P
11J7239-DUP1	001	Total	Water	EPA 410.4	11J7239_P
NUJ3719-01	001	Total	Water	EPA 410.4	11J7239_P

Prep Batch: 11J7120_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7120-BLK1	Method Blank	Total	Water	SOLIDS	
11J7120-BS1	Lab Control Sample	Total	Water	SOLIDS	
11J7120-DUP1	Duplicate	Total	Water	SOLIDS	
11J7120-DUP2	Duplicate	Total	Water	SOLIDS	
NUJ3719-01	001	Total	Water	SOLIDS	

Prep Batch: 11J7239_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7239-BLK1	Method Blank	Total	Water	NO PREP	
11J7239-BS1	Lab Control Sample	Total	Water	NO PREP	
11J7239-DUP1	001	Total	Water	NO PREP	
NUJ3719-01	001	Total	Water	NO PREP	

Extractions

Analysis Batch: 11J7059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7059-BLK1	Method Blank	Total	Water	EPA 1664A	11J7059_P
11J7059-BS1	Lab Control Sample	Total	Water	EPA 1664A	11J7059_P
11J7059-BSD1	Lab Control Sample Dup	Total	Water	EPA 1664A	11J7059_P
11J7059-MS1	Matrix Spike	Total	Water	EPA 1664A	11J7059_P
NUJ3719-01	001	Total	Water	EPA 1664A	11J7059_P

Prep Batch: 11J7059_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7059-BLK1	Method Blank	Total	Water	1664	
				HEM/SGTHEM	
11J7059-BS1	Lab Control Sample	Total	Water	1664	
				HEM/SGTHEM	
11J7059-BSD1	Lab Control Sample Dup	Total	Water	1664	
				HEM/SGTHEM	
11J7059-MS1	Matrix Spike	Total	Water	1664	
				HEM/SGTHEM	
NUJ3719-01	001	Total	Water	1664	
				HEM/SGTHEM	

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QC Association Summary

Client: Conestoga Rovers Associates - Niagara Falls (8571)

Project/Site: 075095

TestAmerica Job ID: NUJ3719

TCLP

Analysis Batch: 11J6896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J6896-BS1	Lab Control Sample	Total	Water	SW846 9040C	11J6896_P
11J6896-BSD1	Lab Control Sample Dup	Total	Water	SW846 9040C	11J6896_P
11J6896-DUP1	Duplicate	Total	Water	SW846 9040C	11J6896_P
11J6896-DUP1	Duplicate	Total	Water	EPA 170.1	11J6896_P
NUJ3719-01	001	Total	Water	SW846 9040C	11J6896_P
NUJ3719-01	001	Total	Water	EPA 170.1	11J6896_P

Prep Batch: 11J6896_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J6896-BS1	Lab Control Sample	Total	Water	METHOD PREP	
11J6896-BSD1	Lab Control Sample Dup	Total	Water	METHOD PREP	
11J6896-DUP1	Duplicate	Total	Water	METHOD PREP	
NUJ3719-01	001	Total	Water	METHOD PREP	

Lab Chronicle

Client: Conestoga Rovers Associates - Niagara Falls (8571)

Project/Site: 075095

Client Sample ID: 001

Lab Sample ID: NUJ3719-01

Matrix: Water

TestAmerica Job ID: NUJ3719

Date Collected: 10/27/11 10:14 Date Received: 10/28/11 08:40

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11J7239_P	10/31/11 14:23	AMB	TAL NSH
Total	Analysis	EPA 410.4		1.00	11J7239	11/02/11 09:19	MSJ	TAL NSH
Total	Analysis	SM2540 D		10.0	11J7120	11/01/11 15:34	DRM	TAL NSH
Total	Prep	SOLIDS		10.0	11J7120_P	11/01/11 15:34	JRM	TAL NSH
Total	Prep	1664 HEM/SGTHEM		1.00	11J7059_P	10/31/11 11:30	CEC	TAL NSH
Total	Analysis	EPA 1664A		1.00	11J7059	10/31/11 15:24	JJR	TAL NSH
Total	Prep	METHOD PREP		1.00	11J6896_P	10/28/11 17:15	SJM	TAL NSH
Total	Analysis	SW846 9040C		1.00	11J6896	10/29/11 17:15	SJM	TAL NSH
Total	Analysis	EPA 170.1		1.00	11J6896	10/29/11 17:15	SJM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method Summary

Client: Conestoga Rovers Associates - Niagara Falls (8571)

Project/Site: 075095

TestAmerica Job ID: NUJ3719

Method	Method Description	Protocol	Laboratory
EPA 1664A	General Chemistry Parameters		TAL NSH
EPA 170.1	General Chemistry Parameters		TAL NSH
SW846 9040C	General Chemistry Parameters		TAL NSH
EPA 410.4	General Chemistry Parameters		TAL NSH
SM2540 D	General Chemistry Parameters		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

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TestAmerica Job ID: NUJ3719

Client: Conestoga Rovers Associates - Niagara Falls (8571) Project/Site: 075095

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville		ACIL		393
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
estAmerica Nashville	AIHA - LAP	IHLAP		100790
estAmerica Nashville	Alabama	State Program	4	41150
estAmerica Nashville	Alaska	Alaska UST	10	UST-087
estAmerica Nashville	Arizona	State Program	9	AZ0473
estAmerica Nashville	Arkansas	State Program	6	88-0737
estAmerica Nashville	CALA	CALA		3744
estAmerica Nashville	California	NELAC	9	1168CA
estAmerica Nashville	Colorado	State Program	8	N/A
estAmerica Nashville	Connecticut	State Program	1	PH-0220
estAmerica Nashville	Florida	NELAC	4	E87358
estAmerica Nashville	Illinois	NELAC	5	200010
estAmerica Nashville	Iowa	State Program	7	131
estAmerica Nashville	Kansas	NELAC	7	E-10229
estAmerica Nashville	Kentucky	Kentucky UST	4	19
estAmerica Nashville	Kentucky	State Program	4	90038
estAmerica Nashville	Louisiana	NELAC	6	30613
estAmerica Nashville	Louisiana	NELAC	6	LA100011
estAmerica Nashville	Maryland	State Program	3	316
estAmerica Nashville	Massachusetts	State Program	- 1	M-TN032
estAmerica Nashville	Minnesota	NELAC	5	047-999-345
estAmerica Nashville	Mississippi	State Program	4	N/A
estAmerica Nashville	Montana	MT DEQ UST		NA
estAmerica Nashville	New Hampshire	NELAC	1	2963
estAmerica Nashville	New Jersey	NELAC	2	TN965
estAmerica Nashville	New York	NELAC	2	11342
estAmerica Nashville	North Carolina	North Carolina DENR	4	387
estAmerica Nashville	North Dakota	State Program	8	R-146
estAmerica Nashville	Ohio	OVAP	5	CL0033
estAmerica Nashville	Oklahoma	State Program	6	9412
		•		
estAmerica Nashville	Oregon	NELAC	10	TN200001
estAmerica Nashville	Pennsylvania	NELAC	3	68-00585
estAmerica Nashville	Rhode Island	State Program	1	LAO00268
estAmerica Nashville	South Carolina	State Program	4	84009
estAmerica Nashville	South Carolina	State Program	4	84009
estAmerica Nashville	Tennessee	State Program	4	2008
estAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
estAmerica Nashville	USDA	USDA	_	S-48469
estAmerica Nashville	Utah	NELAC	8	TAN
estAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
estAmerica Nashville	Virginia	State Program	3	00323
estAmerica Nashville	Washington	State Program	10	C789
estAmerica Nashville	West Virginia	West Virginia DEP	3	219

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Nashville, TN

COOLER REC

NU.13719

_ · · - · ·	110000719
Cooler Received/Opened On 10/28/2011 @ 08:40	
1. Tracking # (last 4 digits, FedEx)	
Courier: FEDEX IR Gun ID 95610068	
2. Temperature of rep. sample or temp blank when opened:	elsius
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank froze	n? YES. (NO.) NA
4. Were custody seals on outside of cooler?	(YES)NONA
If yes, how many and where:	
5. Were the seals intact, signed, and dated correctly?	YESNONA
6. Were custody papers inside cooler?	YES)NONA
I certify that I opened the cooler and answered questions 1-6 (intial)	
7. Were custody seals on containers: YES NO and Intact	YESNONA
Were these signed and dated correctly?	YESNONA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Pap	
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ic	
10. Did all containers arrive in good condition (unbroken)?	YESNONA
11. Were all container labels complete (#, date, signed, pres., etc)?	YESNONA
12. Did all container labels and tags agree with custody papers?	YESNONA
13a. Were VOA vials received?	
b. Was there any observable headspace present in any VOA vial?	YESNONA
14. Was there a Trip Blank in this cooler? YESNONA If multiple coolers, seq	YESNONA
I certify that I unloaded the cooler and answered questions 7-14 (intial)	juence #
15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level?	VEC NO NA
b. Did the bottle labels indicate that the correct preservatives were used	
16. Was residual chlorine present?	YESNONA
Learnify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)	YESNONA
17. Were custody papers properly filled out (ink, signed, etc)?	
18. Did you sign the custody papers in the appropriate place?	YESNONA
19. Were correct containers used for the analysis requested?	YESNONA
20. Was sufficient amount of sample sent in each container?	YESNONA
I certify that I entered this project into LIMS and answered questions 17-20 (intial)	YESNONA
I certify that I attached a label with the unique LIMS number to each container (intial)	
21. Were there Non-Conformance issues at login? YESNO Was a PIPE generated? YESN	
Was a PIPE generated? YESN	lO#

Page 16 of

Date Due of Report:



Nashville Division 2960 Foster Creighton Drive * Nashville TN 37204

Shipped Via:

Temperature Upon Receipt: ろょス

Date: Time: 10-28-11 08:40

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Phone: (800) 765-0980 / (615) 726-0177 Fax:(615) 726-3404

THE LEADER IN ENVIRONMEN						١,٠	'Reg	Dis	stric	t (C	(A)"	')	`															Pa	ge _		of			
	onestoga Ro				ara F	alls	(857	1)						TA	Ac	cour	ıt #:	161	0						F	PO #:								
Address: 20	955 Niagara F	alls Bouleva	rd Ste#3	3											In	voice	e to:	Cor	iesto	oga l	Rove	ers A	Asso	ciat	es -	Niag	ara l	Falls	(857	71)				
City, State, Zip: N					NY		14	304							Re	por	t to:	Pau	l M	сMа	hon													
Client Invoice Contact: Je														Pr	ojec	t Na	me:	SW	SI -	Van	Bu	ren,	AR	Sto	rm '	Wate	r							
Client Project Mgr: Pa												_						075																
Client Telephone#: <u>(7</u>	16) 297-6150)		~	Fax	<u>(7</u>	16) 2	297-	629	6		_	Re	g Di	stric	et (C	A):																	
Sampler Name (Print)	FRAN	<u> رتح/</u>	Ho	7	in	19	<u>ب</u>									ddr																		
SamplerSignatur e	-	14/_										•		Cit	y,St	ate,Z	Zip:	Cha	ttan	oog	a						enn	essee						
		/						- Pr	- eser	vati	ive			_		Ma				1	=		_					ze fo						_
																		Τ	Γ	İ	Γ						T	T	$\dot{\top}$	ТП	Т	$\overline{}$	$\overline{}$	Ͱ
Sample ID	Date Sampled	Time Sampled	Grab # Containers Shipped	Composite	Field Filtered	Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Groundwater	Wastewater	Drinking Water	Sludge	Soi	(specify) Other	COD EPA 410.4	HEM 1664 (Oil & Grease	pH 9040C (+T	Solids Suspended SM2540 D											RUSH TAT (Pre Schedule)*
001	10/27/11	10:14	4 X						Ī						Ì	,	<u> </u>			4			7		_		+	+	H	\vdash	+	Щ	+	H
COMMENTS: All turn around * Pre-Arrangements must be ma around time commitments;additi There may be a charge assessed	times are calcu de AT LEAST onai charges 1	plated from 48 Hours inay be assess	n ADVA ssed.	NCE	E to re	eceive	resu			RUS	SH to	ırn		NOT	TES/S	БРЕС	CIAL	INS	TRU	JCT1	ONS		B	O #	266	986								
Relinquished by:		Date:	Time:		Recei										Da	te:		Time	:	R	elina	mish	ed b							<u> </u>		lov		1
															1			-		1		[4131	.cu D	· y •						Date	::	Tim	e:	

Sample Containers Intact? Y N

VOCs Free of Headspace? Y N

QC Deliverables (Please Circle One):

Level 2 Level 3 Level 4 Site Specific

Project Manager or attach specific instructions)

(If site specific, please pre-schedule w/ TestAmerica

Shipped Via:

Received for TestAmerica by

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY STORMWATER DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER: ARR00082	5	PERMITTEE NAMI	Nabors Comp E: Services Con		
FACILITY NAME: NCPS Van Buren		FACILITY PHYSIC ADDRESS:	<u>-</u>	lighway	
INDUSTRIAL SECTOR: 11	OUTFALL NO:	REP 001 YEA	ORTING AR:	012	
PARAMETER	Benchmark Value		R CONCENTRATION OF THE PROPERTY OF THE PROPERT		UNITS
Chemical Oxygen Demand (COD)	120	JANUARY-JUN	E JULY-DECE <10.0	MBER	mg/L
Total Suspended Solids (TSS)	100		7.08		mg/L
Oil and Grease (O&G)	15		<4.57		mg/L
pH	6.0-9.0		7.40		S.U.
pii	0.0-7.0		11.15		<u> </u>
	_				
Sampling Period:	J _A	ANUARY-JUNE .	JULY-DECEMBER	₹	
Date of Storm Event Sampled:	<u> </u>		10/10/2012		
Duration of Event: Estimate of Rainfall Event:	<u> </u>		0.13	hours inche	
Time Since Last Measurable Eve.	nt·		3	days	3
Estimate of Total Discharged Vol			17,023	gallo	ns
Comments:_					
I CERTIFY UNDER PENALTY O WITH THE INFORMATION SU INDIVIDUALS IMMEDIATELY F SUBMITTED INFORMATION IS T SIGNIFICANT PENALTIES FOR OF FINE AND IMPRISONMENT.	JBMITTED H RESPONSIBLE ΓRUE, ACCUR	EREIN; AND BASE FOR OBTAINING TI ATE AND COMPLET	D ON MY INQU HE INFORMATION E. I AM AWARE T	JIRY OF I, I BELIEV THAT THE	THOSE VE THE RE ARE
			Kellam, Environmen		er —
Signature & Date		Printe	d Name & Title of	Official	



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville 2960 Foster Creighton Drive Nashville, TN 37204 Tel: (615)726-0177

TestAmerica Job ID: 490-8918-1

Client Project/Site: Van Buren, AR Stormwater

For:

Conestoga-Rovers & Associates, Inc. 2055 Niagara Falls Blvd., Suite 3 Niagara Falls, New York 14304

Attn: Mr. Paul McMahon

Um/for Figure

Authorized for release by: 10/19/2012 4:17:39 PM

Ryan Fitzwater Senior Project Manager

ryan.fitzwater@testamericainc.com

----- LINKS -----

Review your project results through

Total Access

Have a Question?



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-8918-1	NCPS #1	Water	10/10/12 08:30	10/11/12 08:15
490-8918-2	NCPS #2	Water	10/10/12 08:35	10/11/12 08:15
490-8918-3	NCPS #3	Water	10/10/12 08:40	10/11/12 08:15
490-8918-4	NCPS #4	Water	10/10/12 08:45	10/11/12 08:15
490-8918-5	NCPS #5	Water	10/10/12 08:50	10/11/12 08:15
490-8918-6	NCPS #6	Water	10/10/12 08:55	10/11/12 08:15
490-8918-7	NCPS #7	Water	10/10/12 09:00	10/11/12 08:15
490-8918-8	NCPS #8	Water	10/10/12 09:05	10/11/12 08:15
490-8918-9	NCPS #9	Water	10/10/12 09:10	10/11/12 08:15
490-8918-10	NCPS #10	Water	10/10/12 09:15	10/11/12 08:15
490-8918-11	NCPS #11	Water	10/10/12 09:20	10/11/12 08:15
490-8918-12	NCPS #12	Water	10/10/12 09:25	10/11/12 08:15

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Case Narrative

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Job ID: 490-8918-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-8918-1

Comments

No additional comments.

The samples were received on 10/11/2012 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2° C.

Except:

The Chain of Custody was received without listing a date or a time of sample collection.

General Chemistry

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

Client Sample ID: NCPS #1

Chemical Oxygen Demand

TestAmerica Job ID: 490-8918-1

10/18/12 13:24

Lab Sample ID: 490-8918-1

Matrix: Water

Date Collected: 10/10/12 08:30 Date Received: 10/11/12 08:15

General Chemistry

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

10.0

mg/L

ND

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Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Client Sample ID: NCPS #2 Lab Sample ID: 490-8918-2

Date Collected: 10/10/12 08:35 Matrix: Water

Date Received: 10/10/12 08:15

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			10/18/12 13:24	1

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Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Client Sample ID: NCPS #3 Lab Sample ID: 490-8918-3

Date Collected: 10/10/12 08:40 Matrix: Water

Date Received: 10/10/12 08:15

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			10/18/12 13:24	1

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Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

Client Sample ID: NCPS #4

TestAmerica Job ID: 490-8918-1

Lab Sample ID: 490-8918-4

Date Collected: 10/10/12 08:45 Date Received: 10/11/12 08:15 Matrix: Water

General Chemistry										
Analyte	Result C	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
HEM	ND		4.57		mg/L			10/16/12 10:07	10/16/12 10:07	1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Lab Sample ID: 490-8918-5

Matrix: Water

Date Collected: 10/10/12 08:50

Date Received: 10/11/12 08:15

Client Sample ID: NCPS #5

General Chemistry							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
HEM	ND -	4.74	mg/L		10/16/12 10:07	10/16/12 10:07	1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Client Sample ID: NCPS #6 Lab Sample ID: 490-8918-6

Date Collected: 10/10/12 08:55 Matrix: Water

Date Received: 10/11/12 08:15

General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prep	ared	Analyzed	Dil Fac
HEM	ND		4.63		mg/L		10/16/12	2 10:07	10/16/12 10:07	1

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Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Client Sample ID: NCPS #7 Lab Sample ID: 490-8918-7

Date Collected: 10/10/12 09:00 Matrix: Water

Date Received: 10/10/12 09:00 Watrix: Wate

General Chemistry							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	7.08	1.04	mg/L			10/13/12 13:26	1

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Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Client Sample ID: NCPS #8 Lab Sample ID: 490-8918-8

Date Collected: 10/10/12 09:05 Matrix: Water

Date Received: 10/11/12 08:15

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	7.58		1.05		mg/L			10/13/12 13:26	1

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Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Lab Sample ID: 490-8918-9

Matrix: Water

Date Collected: 10/10/12 09:10 Date Received: 10/11/12 08:15

General Chemistry

Total Suspended Solids

Analyte

Client Sample ID: NCPS #9

10/13/12 13:26

Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac

mg/L

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Lab Sample ID: 490-8918-10

Matrix: Water

Client Sample ID: NCPS #10 Date Collected: 10/10/12 09:15 Date Received: 10/11/12 08:15

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.20	HF	0.100		SU			10/13/12 11:07	1
Temperature	21.5	HF	0.100		Degrees C			10/13/12 11:07	1

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Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Client Sample ID: NCPS #11

Lab Sample ID: 490-8918-11

Matrix: Water

Date Collected: 10/10/12 09:20 Date Received: 10/11/12 08:15

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.40	HF	0.100		SU			10/13/12 11:07	1
Temperature	21.5	HF	0.100		Degrees C			10/13/12 11:07	1

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Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Lab Sample ID: 490-8918-12

Matrix: Water

Date Collected: 10/10/12 09:25 Date Received: 10/11/12 08:15

Client Sample ID: NCPS #12

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
рН	7.40	HF	0.100		SU			10/13/12 11:07	1
Temperature	21.5	HF	0.100		Degrees C			10/13/12 11:07	1

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TestAmerica Job ID: 490-8918-1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 490-28397/1-A Client Sample ID: Method Blank **Matrix: Water**

Prep Type: Total/NA

Analysis Batch: 28402 мв мв

Prep Batch: 28397

Result Qualifier RL MDL Unit D Prepared Dil Fac Analyte Analyzed HEM 4.00 10/16/12 10:07 10/16/12 10:07 ND mg/L

Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 28402

Lab Sample ID: LCS 490-28397/2-A

Prep Type: Total/NA Prep Batch: 28397

LCS LCS Spike Added Analyte Result Qualifier Unit D %Rec Limits HEM 41.7 36.46 mg/L 87 78 - 114

Lab Sample ID: 490-8859-M-1-A MS Client Sample ID: Matrix Spike

Matrix: Water

Analysis Batch: 28402

Prep Type: Total/NA

Prep Batch: 28397

Prep Type: Total/NA

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits HEM ND 50.6 45.95 78 - 114 mg/L

Method: 410.4 - COD

Lab Sample ID: MB 490-28895/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 28895

Prep Type: Total/NA

MB MB

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Chemical Oxygen Demand ND 10.0 mg/L 10/18/12 13:24

Lab Sample ID: LCS 490-28895/4 Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 28895

LCS LCS Spike %Rec. Added Result Qualifier Unit Limits Analyte %Rec Chemical Oxygen Demand 20.0 106 21.13 mg/L 90 - 110

Lab Sample ID: LCSD 490-28895/5 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 28895

LCSD LCSD Spike %Rec. RPD Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chemical Oxygen Demand 20.0 20.94 mg/L 105 90 - 110 20

Lab Sample ID: 490-8918-1 MS Client Sample ID: NCPS #1

Matrix: Water

Prep Type: Total/NA Analysis Batch: 28895

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Chemical Oxygen Demand ND 50.0 56.63 mg/L 95 90 - 110

Prep Type: Total/NA

Prep Type: Total/NA

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

Method: 410.4 - COD (Continued)

Lab Sample ID: 490-8974-B-1 DU

Matrix: Water

Analysis Batch: 28895

Client Sample ID: Duplicate Prep Type: Total/NA

Sample Sample DU DU RPD Result Qualifier Result Qualifier RPD Limit Analyte Unit D ND ND NC **Chemical Oxygen Demand** mg/L 20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 490-27802/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 27802

мв мв

Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac Total Suspended Solids ND 1.00 10/13/12 13:26 mg/L

Lab Sample ID: LCS 490-27802/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 27802

Spike LCS LCS %Rec. Added Result Qualifier Unit %Rec Limits Total Suspended Solids 100 98 97.80 mg/L 90 - 110

Lab Sample ID: 490-8973-J-1 DU **Client Sample ID: Duplicate** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 27802

DU DU RPD Sample Sample Result Qualifier Limit Result Qualifier Unit **RPD** Total Suspended Solids ND ND NC 20 mg/L

Lab Sample ID: 490-9016-I-1 DU **Client Sample ID: Duplicate**

Matrix: Water

Analysis Batch: 27802

Sample Sample DU DU RPD Result Qualifier Result Qualifier RPD Analyte Unit Limit D Total Suspended Solids ND 1.200 mg/L 20

Method: SM 4500 H+ B - pH

Lab Sample ID: 490-8918-10 DU Client Sample ID: NCPS #10 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 27899

ı	Analysis Batom 21 000								
		Sample	Sample	DU	DU				RPD
	Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
	рН	7.20	HF	7.200		SU	_	 0	20
	Temperature	21.5	HF	21.50		Degrees C		0	20

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

General Chemistry

Analysis Batch: 27802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8918-7	NCPS #7	Total/NA	Water	SM 2540D	
490-8918-8	NCPS #8	Total/NA	Water	SM 2540D	
490-8918-9	NCPS #9	Total/NA	Water	SM 2540D	
490-8973-J-1 DU	Duplicate	Total/NA	Water	SM 2540D	
490-9016-I-1 DU	Duplicate	Total/NA	Water	SM 2540D	
LCS 490-27802/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 490-27802/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 27899

Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NCPS #10	Total/NA	Water	SM 4500 H+ B	
NCPS #10	Total/NA	Water	SM 4500 H+ B	
NCPS #11	Total/NA	Water	SM 4500 H+ B	
NCPS #12	Total/NA	Water	SM 4500 H+ B	
Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
	NCPS #10 NCPS #10 NCPS #11 NCPS #12	NCPS #10 Total/NA NCPS #10 Total/NA NCPS #11 Total/NA NCPS #12 Total/NA	NCPS #10 Total/NA Water NCPS #10 Total/NA Water NCPS #11 Total/NA Water NCPS #12 Total/NA Water	NCPS #10 Total/NA Water SM 4500 H+ B NCPS #10 Total/NA Water SM 4500 H+ B NCPS #11 Total/NA Water SM 4500 H+ B NCPS #12 Total/NA Water SM 4500 H+ B

Prep Batch: 28397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
490-8859-M-1-A MS	Matrix Spike	Total/NA	Water	1664A	
490-8918-4	NCPS #4	Total/NA	Water	1664A	
490-8918-5	NCPS #5	Total/NA	Water	1664A	
490-8918-6	NCPS #6	Total/NA	Water	1664A	
LCS 490-28397/2-A	Lab Control Sample	Total/NA	Water	1664A	
MB 490-28397/1-A	Method Blank	Total/NA	Water	1664A	

Analysis Batch: 28402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8859-M-1-A MS	Matrix Spike	Total/NA	Water	1664A	28397
490-8918-4	NCPS #4	Total/NA	Water	1664A	28397
490-8918-5	NCPS #5	Total/NA	Water	1664A	28397
490-8918-6	NCPS #6	Total/NA	Water	1664A	28397
LCS 490-28397/2-A	Lab Control Sample	Total/NA	Water	1664A	28397
MB 490-28397/1-A	Method Blank	Total/NA	Water	1664A	28397

Analysis Batch: 28895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8918-1	NCPS #1	Total/NA	Water	410.4	
490-8918-1 MS	NCPS #1	Total/NA	Water	410.4	
490-8918-2	NCPS #2	Total/NA	Water	410.4	
490-8918-3	NCPS #3	Total/NA	Water	410.4	
490-8974-B-1 DU	Duplicate	Total/NA	Water	410.4	
LCS 490-28895/4	Lab Control Sample	Total/NA	Water	410.4	
LCSD 490-28895/5	Lab Control Sample Dup	Total/NA	Water	410.4	
MB 490-28895/1	Method Blank	Total/NA	Water	410.4	

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Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

Lab Sample ID: 490-8918-1

Matrix: Water

Client Sample ID: NCPS #1 Date Collected: 10/10/12 08:30 Date Received: 10/11/12 08:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	410.4		1	28895	10/18/12 13:24	MJ	TAL NSH

Client Sample ID: NCPS #2 Lab Sample ID: 490-8918-2

Matrix: Water

Date Collected: 10/10/12 08:35 Date Received: 10/11/12 08:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	410.4		1	28895	10/18/12 13:24	MJ	TAL NSH

Client Sample ID: NCPS #3 Lab Sample ID: 490-8918-3

Date Collected: 10/10/12 08:40

Matrix: Water

Date Received: 10/11/12 08:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	410.4		1	28895	10/18/12 13:24	MJ	TAL NSH

Client Sample ID: NCPS #4 Lab Sample ID: 490-8918-4

Date Collected: 10/10/12 08:45 **Matrix: Water**

Date Received: 10/11/12 08:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	1664A		1	28402	10/16/12 10:07	CC	TAL NSH
Total/NA	Prep	1664A			28397	10/16/12 10:07	CC	TAL NSH

Client Sample ID: NCPS #5 Lab Sample ID: 490-8918-5

Date Collected: 10/10/12 08:50

Matrix: Water Date Received: 10/11/12 08:15

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	1664A			28402	10/16/12 10:07	CC	TAL NSH	
Total/NA	Prep	1664A			28397	10/16/12 10:07	CC	TAL NSH	

Client Sample ID: NCPS #6 Lab Sample ID: 490-8918-6

Date Collected: 10/10/12 08:55 **Matrix: Water**

Date Received: 10/11/12 08:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	1664A		1	28402	10/16/12 10:07	CC	TAL NSH
Total/NA	Prep	1664A			28397	10/16/12 10:07	CC	TAL NSH

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

Lab Sample ID: 490-8918-7 Client Sample ID: NCPS #7 Date Collected: 10/10/12 09:00

Matrix: Water

Lab

Date Received: 10/11/12 08:15

Batch Batch Dilution Batch Prepared Prep Type Type Method Run Factor Number or Analyzed Analyst Lab Total/NA Analysis SM 2540D 27802 10/13/12 13:26 DM TAL NSH

Client Sample ID: NCPS #8 Lab Sample ID: 490-8918-8

Date Collected: 10/10/12 09:05 Matrix: Water

Date Received: 10/11/12 08:15

Batch Batch Dilution Batch Prepared Method Factor Number or Analyzed Prep Type Type Run Analyst

SM 2540D 27802 10/13/12 13:26 DM TAL NSH Total/NA Analysis

Client Sample ID: NCPS #9 Lab Sample ID: 490-8918-9

Date Collected: 10/10/12 09:10 **Matrix: Water**

Date Received: 10/11/12 08:15

Batch Batch Dilution Batch Prepared Method Factor Number or Analyzed Prep Type Туре Run Analyst Lab 27802 10/13/12 13:26 Total/NA Analysis SM 2540D DM TAL NSH

Client Sample ID: NCPS #10 Lab Sample ID: 490-8918-10

Date Collected: 10/10/12 09:15 **Matrix: Water**

Date Received: 10/11/12 08:15

Batch Batch Dilution Batch Prepared Method or Analyzed Prep Type Type Run Factor Number Analyst Lab Total/NA Analysis SM 4500 H+ B 27899 10/13/12 11:07 BG TAL NSH

Client Sample ID: NCPS #11 Lab Sample ID: 490-8918-11

Date Collected: 10/10/12 09:20 Matrix: Water

Date Received: 10/11/12 08:15

Date Received: 10/11/12 08:15

Batch Batch Dilution Batch Prepared Prep Type Type Method Run Factor Number or Analyzed Analyst Lab SM 4500 H+ B 10/13/12 11:07 BG TAL NSH Total/NA Analysis 27899

Lab Sample ID: 490-8918-12 Client Sample ID: NCPS #12

Date Collected: 10/10/12 09:25 **Matrix: Water**

Batch Batch Dilution Batch Prepared

Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Analysis SM 4500 H+ B 27899 10/13/12 11:07 BG TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

TestAmerica Job ID: 490-8918-1

Method	Method Description	Protocol	Laboratory
1664A	HEM and SGT-HEM	1664A	TAL NSH
410.4	COD	MCAWW	TAL NSH
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL NSH
SM 4500 H+ B	pH	SM	TAL NSH

Protocol References:

1664A = EPA-821-98-002

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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TestAmerica Job ID: 490-8918-1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: Van Buren, AR Stormwater

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-12
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAC	9	1168CA	10-31-12
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAC	4	E87358	06-30-13
Illinois	NELAC	5	200010	12-09-12
lowa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-12
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAC	6	LA110014	12-31-12
Louisiana	NELAC	6	30613	06-30-13
Maryland	State Program		316	03-31-13
Vassachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAC	5	047-999-345	12-31-12
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAC		2963	10-09-13
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program		9412	08-31-13
Oregon	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	3	68-00585	06-30-13
Rhode Island	State Program		LAO00268	12-30-12
South Carolina	-	4	84009 (001)	02-28-13
South Carolina South Carolina	State Program	4	84009 (001)	02-23-14
	State Program			
Tennessee	State Program NELAC	4 6	2008 T104704077 00 TV	02-23-14
Texas		O	T104704077-09-TX	08-31-13
USDA	Federal	0	S-48469	11-02-13
Utah	NELAC	8	TAN 460153	06-30-13
Virginia	NELAC	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

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COOLER RECEIPT FO



Cooler Received/Opened	Or
------------------------	----

10/11/2012 @ 0815

1	Tracking #	0381
т.	racking #	

(last 4 digits, FedEx)

Courier:	<u>FedEx</u>

Nashville, TN

IR Gun ID

14740456

2.	Temperature of rep. sample or temp blank when opened:Degrees Celsius		
3.	If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen?	YES	ΝО(
4.	Were custody seals on outside of cooler?	VES.	on. (
	If yes, how many and where:		
5.	Were the seals intact, signed, and dated correctly?	YES	NO

I certify that I	opened the	cooler and	answered	auestions	1-6 (intial)

7. Were custody seals on containers:

NO and Intact YES...NO. (NA

ES...NO...NA

NA.

None

Were these signed and dated correctly?

6. Were custody papers inside cooler?

8. Packing mat'l used? Rubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

Ice (direct contact)

10. Did all containers arrive in good condition (unbroken)?

Other YES NO...NA

Dry ice

11. Were all container labels complete (#, date, signed, pres., etc)?

(ES)...NO...NA

12. Did all container labels and tags agree with custody papers?

YES)..NO...NA

13a. Were VOA vials received?

14. Was there a Trip Blank in this cooler?

9. Cooling process:

YES. NO.

b. Was there any observable headspace present in any VOA vial?

YES...NO...NA

Ice lce-pack

If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (intial)

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES b. Did the bottle labels indicate that the correct preservatives were used

16. Was residual chlorine present?

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)

17. Were custody papers properly filled out (ink, signed, etc)?

18. Did you sign the custody papers in the appropriate place? 19. Were correct containers used for the analysis requested?

20. Was sufficient amount of sample sent in each container?

I certify that I entered this project into LIMS and answered questions 17-20 (intial)

I certify that I attached a label with the unique LIMS number to each container (intial)

21. Were there Non-Conformance issues at login? YES NO Was a PIPE generated? YES NO H

10-11-12

NO...NA

.NO...NA

...ON...NA

NO...NA

Test&merica Nashville
2960 Foster Creighton Drive

Chain of Custody Record

Nashville, TN 37204		Cildili Oi	Chain of Custody Record		
Phone (615) 726-0177 Fax (615) 726-0954	Sampler	Top Div.			THE LEADER IN SHYPROMIZETAL TESTRIC
Client Information	Phone	Fitzwater, Ryan	, Ryan	Carrier Tracking No(s):	COC No: 490-4289-1998.1
Mr. Paul McMahon		ryan.fitzw	ryan.fitzwater@testamericainc.com		Page: Page 1 of 1
Conestoga-Rovers & Associates, Inc.			Analysis Reg	Requested	Job#:
Address: 2055 Niagara Falls Blvd., Suite 3	Due Date Requested:				Preservation Codes:
City: Niagara Fails	TAT Requested (days):				
State, Zip: NY, 14304					C - 4n Acetate
Phone:	P0#. Purchase Order Requested	o).			
Email: pmcmahon@craworld.com	WO#		re	Contraction of the	
Project Name:	Project#		Den eratu	ore Contract	K - EDTA W - ph 4-5
Vali Duleri, Alvoidili Waler	49001092		gen	nta	L - EUA Z - other (specify)
Olici.	SSQVW#:	d Samı	ical Oxy pH & Te		Other:
Sample Identification	Sample Sample CSample GSample Date Time GSample GSampl	Sample Matrix Type (W-water, III (C=comp, O-wasted), IC G=Grab) RT-Tress Activity G=Grab	Perform MS 110.4 - Chem 6M4500_H+ - 664A - HEM 640D - Total	otal Numbe	
		100000000000000000000000000000000000000	S N S N		opcom manuchonstryole.
		Water)- /-		
		Water	Loc: 490	90	
		Water	8978	&	
Possible Hazard Identification		2			
ant [Poison B Unknown III Rac	Radiological	Return To Client Di	may be assessed if samples are retained longer Disposal By Lab Archive For	tained longer than 1 month) Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify)			equireme	,	
Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Keinquisned by:	Date/Time:	Company	Received by A	Date/Time:	Company Company
Relinquished by:	Date/Time:	Company	6	Š	i
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:	arks:	

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 490-8918-1

Login Number: 8918 List Source: TestAmerica Nashville

List Number: 1 Creator: Ford, Easton

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

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103 Gamma Drive Extension, Suite #110 Pittsburgh, Pennsylvania 15238

Telephone: (412) 963-7313 Fax: (412) 963-7314

www.CRAworld.com

May 31, 2013 Reference No. 075095

Ms. Angela Coats
Oil & Gas Field Inspector
Water Division
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, Arkansas 72118-5317

Dear Ms. Coats:

Re: Corrective Actions for Compliance Inspection

Permit Number ARR000825

AFIN: 17-00056

Nabors Completion and Production Services Co.

2802 Kibler Road

Van Buren, Arkansas 72956

INTRODUCTION

On behalf of Nabors Completion and Production Services Co. (NCPS), this letter is in response to the Arkansas Department of Environmental Quality (ADEQ) Industrial Stormwater Compliance Inspection performed on April 5, 2013. The results and violations noted during the inspection were detailed in a letter dated April 30, 2013. The facility has been issued a National Pollutant Discharge Elimination System (NPDES) Permit No. ARR000825 (the Permit). The ADEQ comments regarding the stormwater inspection, and the comments and/or corrective actions to mitigate these concerns are addressed in the remainder of this letter.

VIOLATIONS AND RESPONSES

ADEQ Comment No. 1: During the inspection, four additional outfalls were noted, two on the east side of the property and two on the south. Currently the facility is not authorized to discharge from these locations. This is a violation of Part 1.6 of the permit.

NCPS Response No. 1: Only one outfall was identified during the inspection for the Notice of Intent (NOI) submitted for the Permit. The four additional outfall locations (Outfalls 002 through 005) have been identified and will be sampled in accordance with the Permit requirements. Figure 2 in the revised Storm Water Pollution Prevention Plan (SWPPP) shows the five outfall locations. Please advise if ADEQ is requiring a Notice of Intent (NOI) for submittal to add these outfalls.

Equal Employment Opportunity Employer





May 31, 2013 2 Reference No. 075095

ADEQ Comment No. 2: Samples were not collected during the January to June 2012 monitoring period. This is a violation of Part 3.5 of the permit.

NCPS Response No. 2: Samples were not collected in error during this semiannual period. Sample collection and monitoring will be conducted semiannually in accordance with the Permit frequency.

ADEQ Comment No. 3: Samples for Outfall #1 were not being collected from the monitoring point specified in the NOI. Samples for 2012 were collected near a drainage pipe by the concrete pad adjacent to the maintenance shop building. This is a violation of Part 3.6 of the permit (Photo #5).

NCPS Response No. 3: NCPS personnel will be retrained on where to collect samples from all outfall locations.

ADEQ Comment No. 4: A Corrective Action Plan was not implemented for the benchmark exceedance of Total Suspended Solids (TSS) of 226 milligrams/Liter (mg/L) for the July to December 2011 monitoring period. This is violation of Part 3.11.2 of the permit.

NCPS Response No. 4: NCPS has installed sediment controls to reduce solids from entering the storm water discharge. Section 5.5 of the revised SWPPP details the corrective actions implemented. As a corrective action for the TSS exceedance, NCPS has installed silt/sediment barriers along the eastern property boundary in an effort to reduce solids from run-off. The barriers (e.g., silt fence and/or silt socks) will be adjusted as needed based on the analytical results for the Outfall sampling.

ADEQ Comment No. 5: The annual report for 2012 was not submitted to ADEQ by January 31, 2013. This is a violation of Part 3.12.b of the permit.

NCPS Response No. 5: In error, NCPS did not submit the report before January 31, 2013 and submitted it late. NCPS will ensure that all future reporting is submitted within the Permit schedule requirements.

ADEQ Comment No. 6: The pH was not analyzed within 15 minutes of the time of the sample collection. This is a violation of Part 3.7.2.d of the permit.



May 31, 2013 3 Reference No. 075095

NCPS Response No. 6: Nabors has purchased a pH meter that will be used to measure the pH of the storm water samples within 15 minutes of sample collection.

ADEQ Comment No. 7: The SWPPP does not contain the updated facility name and NAICS code. This is a violation of Part 4.6.1 of the permit.

NCPS Response No. 7: The SWPPP has been revised to include this information. Please see Section 3.0 for the information.

ADEQ Comment No. 8: The facility site map does not contain the size of the property in acres. This is a violation of Part 4.6.4.a of the permit.

NCPS Response No. 8: The facility site map has been revised to include this information and is included as Figure 2 in the revised SWPPP. The property is approximately 5.2 acres.

ADEQ Comment No. 9: A drainage pipe running from the concrete slab by the maintenance shop building to the property line is not shown on the site map. This is a violation of Part 4.6.4.f of the permit (Photos #5 and #6).

NCPS Response No. 9: The drainage pipe has been added to the facility site map included as Figure 2 in the SWPPP. The drainage pipe is not a permitted sample outfall and will not be sampled.

ADEQ Comment No. 10: The SWPP does not include a section on risk identification and summary of potential pollutant sources. This is a violation of Part 4.6.5.5 of the permit.

NCPS Response No. 10: Section 5.3 in the revised SWPPP includes this information.

ADEQ Comment No. 11: The SWPPP does not include a description of the BMPs that are used by the facility to eliminate or reduce the potential to contaminate storm water. This is a violation of Part 4.6.6.1 of the permit.

NCPS Response No. 11: The SWPPP has been revised to include this information. Please see Section 6.1.1.



May 31, 2013 4 Reference No. 075095

ADEQ Comment No. 12: The SWPPP does not include a discussion on minimizing exposure. This is a violation of Part 4.6.6.2 of the permit.

NCPS Response No. 12: The SWPPP has been revised to include this information. Please see Section 6.0.

ADEQ Comment No. 13: Evidence of past spills was observed on the south side of the property along the fence line. This area had not been cleaned. This is a violation of Part 4.6.6.5 of the permit (Photos #5 and #6)

NCPS Response No. 13: This area has been cleaned by NCPS and will not affect future storm water discharge. NCPS contracted Hubbs Construction (Hubbs) to excavate an area of oil-stained gravel on April 22, 2013. Hubbs removed stained gravel to a depth ranging from approximately 0.2 to 0.7 feet below existing grade. One composite sample was collected for disposal characterization using Toxicity Characteristic Leaching Procedures (TCLP). The TCLP results indicated the sample was non-hazardous and the gravel/soil was disposed of off-Site at a licensed disposal facility. The analytical results are included as Attachment A. The area was backfilled with clean gravel. Photographic documentation is included as Attachment B.

ADEQ Comment No. 14: The SWPPP does not contain a narrative on the management of run-on and runoff. This is a violation of Part 4.6.6.8 of the permit.

NCPS Response No. 14: The SWPPP has been revised to include this information. Please see Section 7.2.

ADEQ Comment No. 15: A comprehensive site compliance evaluation was not completed for 2012. This is a violation of Part 4.6.10.2 of the permit.

NCPS Response No. 15: A comprehensive site compliance evaluation will be completed for 2013 and each subsequent year in accordance with the Permit. NCPS personnel will be retrained in procedures for completing the compliance evaluation.



May 31, 2013 5 Reference No. 075095

CLOSING

A copy of the revised SWPPP has been included with this letter and addresses the violations noted in the April 5, 2013 inspection.

We trust that the aforementioned responses and revised SWPPP address ADEQ's concerns and the violations reported in the April 30, 2013 letter. If you have any questions or require additional information, please contact me at (412) 963-7313.

Respectfully submitted,

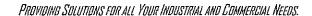
Daniel P. Cusick, P.G. (1)

1) Licensed in PA, S.C., MO, and IN

DPC/ro/01 Encl.

c.c. Mr. Patrick Kellam – NCPS (electronic copy) Mr. Heath Davis – NCPS (electronic copy)

ATTACHMENT A ANALYTICAL RESULTS





New Construction Buildings Millwright Maintenance Concrete Project Management

May 7, 2013

Nabors Daniel Roberson 28th Street Van Buren, AR 72956

Gravel Lot Cleanup

Scope of Work

After taking soil samples of affected areas of gravel lot and receiving tests results showing material to be at acceptable limits for disposal/use (see attached), we propose the following as a course of action for clean-up/grading of gravel lot.

- 1. Excavate affected areas to a depth required for removal of "soiled" gravel (2"-8")
- 2. Haul-ff and disposal of excavated materials (local dumping)
- 3. Placement of new 3.5"-5.5" rock base in excavated areas to bring to proper grade
- 4. Placement of gravel base over top of areas to tie in existing lot areas for proper drainage.

If this course of action is not acceptable for our needs, please let us know and we can discuss other methods that will meet your specific needs.

Thank You,

Cameron Hubbs

President, Cameron Hubbs Const. inc.



May 1, 2013 Control No. 166884 Page 1 of 5

Data Testing, Inc. ATTN: Ms. Dolores Shelby Post Office Box 1507 Fort Smith, AR 72902

This report contains the analytical results and supporting information for the sample submitted on April 25, 2013. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.

Deputy Laboratory Director

This document has been distributed to the following:

PDF cc: Data Testing, Inc.

ATTN: Ms. Dolores Shelby testing@mwc-engr.com

P. 03



May 1, 2013 Control No. 166884 Page 2 of 5

Data Testing, Inc. Post Office Box 1507 Fort Smith, AR 72902

SAMPLE INFORMATION

Project Description:

One (1) soil sample(s) received on April 25, 2013

Receipt Details:

A Chain of Custody was provided. The samples were delivered in one (1) ice chest. Ice chest #1 was delivered with shipping documentation.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

Notes Sampled Date/Time Laboratory ID Client Sample ID 22-Apr-2013 0930 Cameron Hubbs Construction 4-22 0930 166884-1

Notes:

Sample container did not meet regulatory requirement 1.

Qualifiers:

Result is from a secondary dilution factor

Analysis of soils/sludges are reported on a dry-weight basis unless otherwise specified.

References:

"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).

"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.

"Standard Methods for the Examination of Water and Wastewaters", 21st edition.

"American Society for Testing and Materials" (ASTM).

"Association of Analytical Chemists" (AOAC).



Data Testing, Inc. Post Office Box 1507 Fort Smith, AR 72902 May 1, 2013 Control No. 166884 Page 3 of 5

ANALYTICAL RESULTS

AIC No. 166884-1 Sample Identification: Cameron Hubbs Construction 4-22 0930

	alliaton Lubba Constinction 4-2	Result	RL	Units	Qualifier
Analyte Total Solids SM 2540 G	Prop: 26-Apr-2013 1026 by 302	90	0.01 pr-2013 0858 by 302	% Batch: W43368	
TCLP: Solids	,	100 Analyzed: 25-Ap	0.5 or-2013 1630 by 100	% Batch: \$34384	
TCLP: Arsenic	Prep: 26-Apr-2013 1207 by 270	< 0.3	0.3	mg/)	D
EPA 3010A, 6010C		Analyzed: 26-A	pr-2013 1817 by 305	Bat ch: \$34515	Dil: 5
TCLP: Barium	Prep: 26-Apr-2013 1207 by 270	0.51	0.01	mg/l	D
EPA 3010A, 6010C		Analyzed: 26-A	pr-2013 1817 by 305	Batch: S34515	Dil: 5
TCLP: Cadmium	Prep: 26-Apr-2013 1207 by 270	< 0.02	0.02	mg/l	D
EPA 3010A, 6010C		Analyzed: 26-A	pr-2013 1817 by 305	Batch: \$34615	Dil: 5
TCLP: Chromium	Prep: 26-Apr-2013 1207 by 270	< 0.04	0.04	ញជួ/l	D
EPA 3010A, 6010C		Analyzed: 26-A	pr-2013 1817 by 305	Balch: 834515	Dil: 6
TCLP: Lead	Prep: 26-Apr-2013 1207 by 270	< 0,2	0.2	mg/l	D
EPA 3010A, 6010C		Analyzed; 26-A	pr-2013 1817 by 305	Batch: S34515	Dil: 5
TCLP: Selenium	Prep: 26-Apr-2013 1207 by 270	< 0.4	0.4	mg/l	D
EPA 3010A, 6010C		Analyzed: 26-A	pr-2013 1817 by 305	Batch: 534515	Díl: 5
TCLP: Silver	Prep: 26-Apr-2013 1207 by 270	< 0.04	0.04	mg/l	D
EPA 3010A, 6010C		Analyzed: 26-A	pr-2013 1817 by 305	Batch: 634515	Dil: 6
TCLP: Mercury EPA 7470A	Prep: 26-Apr-2013 1208 by 270	< 0.008	0,008 Apr-2013 1806 by 271	mg/l Batch: 534516	D Dil: 40
Total Petroleum Hydrod		210	36 Apr-2013 0814 by 295	mg/Kg Batch: 88312	



Data Testing, Inc. Post Office Box 1507 Fort Smith, AR 72902 May 1, 2013 Control No. 166884 Page 4 of 5

DUPLICATE RESULTS

Analyte		AIC No.	Rosult	RPD	RPD Limit	Preparation Date	Analysis Date	DII Qual
Total Petroleum Hydrocarbons	Batch; 98312	166884-1 Duplicate	210 mg/Kg 240 mg/Kg	13.6	34.0		30Apr13 0814 by 285 30Apr13 0814 by 205	
Total Solids	Batch: W43358	166903-1 Duplicate	1.3 % 1.3 %	0.613	10.0		30April 0858 by 302 30April 0858 by 302	

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date 28April 1802 by 305	וום	Qual
TCLP: Arsenic	6 mg/l	108	85.D-115			S34515	28Apr13 1207 by 270	•		
TCLP: Barium	0,5 mg/l	105	85.0-115			S34516	26Apr13 1207 by 270	28Apr13 1802 by 305		
TCLP: Cadmium	5 mg/l	102	85.0-115			S34515	26Ap;13 1207 by 270	26Apr13 1802 by 305		
TCLP: Chromium	0.5 mg/l	101	85.0-115			S34515	28Apri3 1207 by 270	26Aprt3 1802 by 305		
TCLP: Lead	5 mg/l	101	85.0-115			834515	26Apr13 1207 by 270	26Apr13 1602 by 305		
TCLP: Selenium	5 mg/i	105	85,0-116			S34515	26Apr13 1207 by 270	26Apr13 1802 by 305		
TCLP: Silver	0.1 mg/l	92.8	85.0-115			834515	28Apr13 1207 by 270	28Apr13 1802 by 305		
TCLP: Mercury	0.0025 mg/l	86.2	85.0-115			834516	26Apr13 12DB by 270	30Apr13 1743 by 271		
Total Petroleum Hydrocarbons	400 mg/Kg 400 mg/Kg	98.0 98.0	91.3-104 91.3-104	00.0	20.0	B8312 B8312		20Apr13 0814 by 295 30Apr13 0814 by 295		



Data Testing, Inc. Post Office Box 1507 Fort Smith, AR 72902 May 1, 2013 Control No. 166884 Page 5 of 5

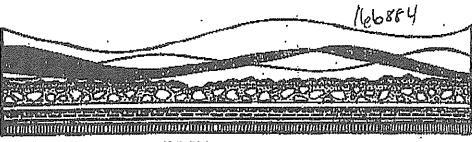
MATRIX SPIKE SAMPLE RESULTS

Analyte	Spike Sample Amount	%	Limita	Batch	Preparation Date	Analysis Dato	bll	Qual
TCLP: Arsenic	166684-1 5 mg/l 166884-1 5 mg/l Relative Percent Difference:	106 106 0.129	76.0-125 75.0-125 20.0	\$34515 \$34515 \$34515	28Apr13 1207 by 270 28Apr13 1207 by 270	26Apr13 1807 by 305 26Apr13 1812 by 305	5 5	ייינו מ ם
TOLP: Barlum	166884-1 0.5 mg/l 166884-1 0.5 mg/l Relative Percent Difference:	101 100 0.523	75.0-125 75.0-125 20.0	534515 534515 534515	26Apr13 1207 by 270 26Apr13 1207 by 270	26Apr13 1807 by 305 26Apr13 1812 by 305	5	0 0
TCLP: Cadmium	166884-1 6 mg/l 186884-1 5 mg/l Relative Percent Difference:	95.6 95.8 0,193	75.0-125 75.0-125 20.0	\$34515 \$34515 \$34515	26Apr13 1207 by 270 26Apr13 1207 by 270	26Apr13 1612 by 305 26Apr13 1612 by 305	ទ	D D D
TCLP: Chromium	166884-1 0,5 mg/l 166884-1 0,5 mg/l Relative Percent Difference:	99.9 99.7 0,205	76.0-125 75.0-125 20.0	\$34515 \$34515 \$34515	28Apr13 1207 by 270 28Apr13 1207 by 270	26Apr13 1607 by 305 26Apr13 1812 by 305		<i>а</i> а
TCLP: Lead	166884-1 5 mg/l 166884-1 5 mg/l Relative Percent Difference:	97.4 97.6 D.217	75.0-125 75.0-126 20.0	534515 534515 \$34515	26Apr13 1207 by 270 26Apr13 1207 by 270	26Apr13 1807 by 305 26Apr13 1812 by 305		0
TCLP: Selenium	166884-1 5 mg/l 166884-1 5 mg/l Relative Percent Difference:	106 107 0,281	75.0-125 75.0-125 20.0	834515 834515 834515	26Apr13 1207 by 270 26Apr13 1207 by 270	28Apr13 1807 by 305 26Apr13 1812 by 305		D D
TCLP; Silver	166884-1 0.1 mg/l 166884-1 0.1 mg/l Relative Percent Difference:	89.4 89.6 0.306	75.0-125 75.0-125 20.0	834515 834515 834515	28Apr13 1207 by 270 28Apr13 1207 by 270	26Apr13 1807 by 305 28Apr13 1812 by 304		0
TCLP: Mercury	166884-1 0.0025 mg/l 166884-1 0.0025 mg/l Relative Percent Difference:	86,5 89,6 3,52	70.0-130 70.0-130 20.0	834516 834516 834516	26Apr13 1208 by 270 28Apr13 1208 by 270	30Apr13 1748 by 271 30Apr13 1753 by 271		D D

LABORATORY BLANK RESULTS

	Result	RL	PQL.	QC Sample	Proparation Date	Analysis Date	Qual
Analyto		0.01	0.01	W43368-1	26Apr13 1027 by 302	3DAPF13 0858 by 302	
Total Solids	< 0.01 %						
TCLP: Arsenic	< 0.05 mg/l	0. 05	0.05	S34515-1			
TCLP: Barium	< 0.002 mg/l	0.002	0.002	\$34516-1	26Apr13 1207 by 270		
		0.004	0.004	\$34815-1	28Aor13 1207 by 270	28Apr13 1754 by 305	
TCLP; Çadmium	< 0.004 mg/j			534515-1		26Apr13 1754 by 305	
TCLP: Chromium	< 0.007 mg/l	0,007	0,007				
TCLP: Lead	< 0.04 mg/l	0.04	0.04	\$34515-1	•	28Apr13 1754 by 305	
,	< 0.07 mg/l	0.07	0.07	S34515-1	26Apr13 1207 by 270	26Apr13 1754 by 305	
TCLP: Selenium	· ••	0.007	0.007	\$34515-1	26Apr 13 1207 by 270	28April3 1754 by 305	
TCLP: Silver	< 0.007 mg/l				28Apr13 1208 by 270	•	
TCLP: Mercury	< 0,¢002 mg/l	0.0002	0.00 02	\$34516-1	SOMBLID ISOUR DA TER	· · ·	
Total Petroleum Hydrocarbons	< 32 mg/Kg	32	32	B8312-1		30Apr13 0814 by 295	





CHAIN OF CUSTODY RECORD

				_		·			
Sample Identification	Date	Time	Sample Comp.	Type Grab	Presex- vative		Number	Analysis Requ	ired .
Cameronflobs	442			1	1ce	0	1	£	
Construction								TCLPME As.Bi.Cd.	Cr.Pa
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ethod of Shipment	: <i>Vi</i>	05 ((24)	17.1	HORAS	<u> </u>	171856		

ATTACHMENT B

PHOTOGRAPHS



Photo 1: View of remediation conducted for oil-stained gravel in Southern portion of Facility. Backfilled after excavated (Note: ADEQ, Item No. 13).



Photo 2: View of final grade and backfill for excavated oil-stained gravel in Southern portion of Facility (Note: ADEQ Item No. 13).

SITE PHOTOGRAPHS



Photo 3: View looking west for remediation conducted in Southern portion of the Facility.

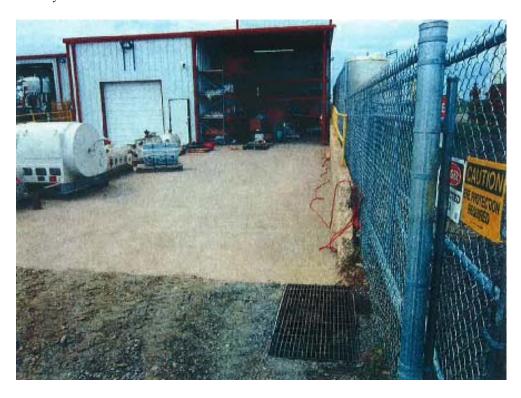


Photo 4: Catch basin with 4-inch diameter pipe at the end of the concrete driveway for the Maintenance Shop Building.

SITE PHOTOGRAPHS



Photo 5: Fill and grading to control storm water flow at the end of the driveway for the Maintenance Shop Building.

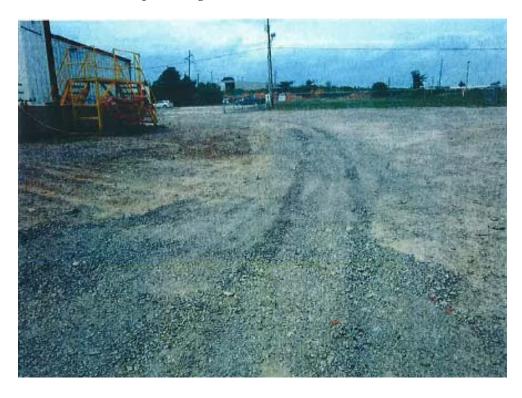


Photo 6: Fill and grade in center of the Property to influence proper drainage.

SITE PHOTOGRAPHS

Rinearson, Kassie

From: Cusick, Daniel <dcusick@craworld.com>

Sent: Friday, May 31, 2013 2:29 PM

To: Coats, Angela; Water-Inspection-Report **Cc:** McCabe, Kerri; Kellam, Patrick; Davis, Doran

Subject: 075049 - Nabors Completion & Production Services - Van Buren, AR

Attachments: 075095-RPT-1 Rev1.pdf; 075095COAT-001-053113.pdf

Ms. Coats:

Attached, please find the Corrective Action/Response letter on behalf of Nabors Completion & Production Services Co. (NCPS) for the violations noted for their facility in Van Buren, AR. A revised Storm Water Pollution Prevention Plan (SWPPP) is also included which addresses modification and amendments made for the facility and corrective actions. A hard copy of each will be delivered to your attention on Monday, June 3, 2013. Please let us know if you have any questions or concerns during your review.

Thank you again for the extension and your cooperation in moving forward with environmental compliance at this facility.

Have a great weekend.

Best regards,

DANIEL P. CUSICK, P.G.

CONESTOGA-ROVERS & ASSOCIATES (CRA)

103 Gamma Drive Extension., Suite 110

Pittsburgh, Pennsylvania 15238

(412) 963-7313 (office)

(412) 963-7314 (fax)

(412) 327-0863 (cell)

Email: dcusick@CRAworld.com

www.CRAworld.com

Think before you print

Perform every task the safe way, the right way, every time!

From: Coats, Angela [mailto:COATS@adeq.state.ar.us]

Sent: Thursday, May 16, 2013 11:21 AM

To: Cusick, Daniel **Cc:** McCabe, Kerri

Subject: RE: 075049 - Reguest for Extension - AFIN 17-00056 - Nabors Completion & Production Services ~ COR-

075049~

I will change your response due date to May 31, 2013.

Thanks,

Angela Coats

ADEQ Inspector Water Division Fort Smith Field Office Office: 479-424-0331 Cell: 501-454-3139

From: Cusick, Daniel [mailto:dcusick@craworld.com]

Sent: Wednesday, May 15, 2013 9:28 AM

To: Coats, Angela

Subject: 075049 - Request for Extension - AFIN 17-00056 - Nabors Completion & Production Services ~COR-075049~

Ms. Coats:

Due to business travel, the attached document with noted violations from an inspection was just received by the client. Unfortunately the due date for corrective actions is noted in the letter as today. Therefore, on behalf of Nabors Completion & Production Services (NCPS), we are respectfully requesting an extension for submittal of the corrective actions and revised documents. The due date requested is May 31, 2013.

Please respond to this email as your formal approval of this request.

Thank you for your consideration and cooperation.

Best regards,

DANIEL P. CUSICK, P.G.

CONESTOGA-ROVERS & ASSOCIATES (CRA)

103 Gamma Drive Extension., Suite 110

Pittsburgh, Pennsylvania 15238

(412) 963-7313 (office)

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Email: dcusick@CRAworld.com

www.CRAworld.com

Think before you print

Perform every task the safe way, the right way, every time!



June 17, 2013

Patrick Kellam, Environmental Manager Nabors Completion and Production Services Co. 350 High Street Bradford, PA 16701

RE: Response Letter to ADEQ Inspection (Crawford Co);

Permit #: ARR000825; AFIN: 17-00056

Dear Mr. Kellam:

I have reviewed the response submitted by Conestoga-Rovers & Associates on behalf of Nabors Completion and Production Services Co. pertaining to my April 5, 2013, inspection of your Van Buren facility. However, the information provided does not sufficiently address the violations referenced in my inspection report.

All outfalls of stormwater discharge from a facility need to be identified and submitted to the Department. This includes the drainage pipe referenced in "NCPS Response No. 9". Please provide the ADEQ Water Division Permits Branch with an updated Notice of Intent (NOI) that includes all of the outfall locations. Please submit a NOI signed by the Cognizant Official by **no later than June 27, 2013.** If you have any questions pertaining to the NOI or your permit, please contact Jamal Solaimanian, Engineer Supervisor, at 501-682-0620 or <u>Jamal@adeq.state.ar.us</u>.

Thank you for your attention to this matter. Should you have any questions regarding my inspection, feel free to contact me at 479-424-0331 or you may e-mail me at Coats@adeq.state.ar.us.

Sincerely,

Angela Coats

Oil & Gas Field Inspector

Water Division

cc: Heath Davis, Environmental Coordinator, Dorian.Davis@nabors.com

Daniel P. Cusick, P.G., dcusick@CRAworld.com



October 1, 2013

Patrick Kellam, Environmental Manager Nabors Completion and Production Services Co. 350 High Street Bradford, PA 16701

RE: Response Letter to ADEQ Inspection (Crawford Co);

Permit #: ARR000825; AFIN: 17-00056

Dear Mr. Kellam:

The Water Division Permits Branch has reviewed the response submitted by Conestoga-Rovers & Associates on behalf of Nabors Completion and Production Services Co. pertaining to my April 5, 2013, inspection of your Van Buren facility. The information provided sufficiently addresses the violations referenced in my inspection report. At this time the Department has no further comment concerning this particular inspection. Acceptance of this response by the Department does not preclude any future enforcement action deemed necessary at this site or any other site.

If we need further information concerning this matter, we will contact you. Thank you for your attention to this matter. Should you have any questions, feel free to contact me at 479-424-0331 or you may e-mail me at Coats@adeq.state.ar.us.

Sincerely.

Angela Coats

angla Couts

Oil & Gas Field Inspector

Water Division

cc: Heath Davis, Environmental Coordinator, Dorian.Davis@nabors.com

Daniel P. Cusick, P.G., dcusick@CRAworld.com