



COOPER TIRE & RUBBER COMPANY
3500 Washington Rd. • Texarkana, AR 71854 • Phone (870) 773-4502

Certified Mail:70111 2970-0001 7194 1446

April 17, 2014

Arkansas Department of Environmental Quality
Water Division
5301 Northshore Drive
North Little Rock, AR 72118-5317
Attn: Miles Johnson

RE: Response to Missing Discharge Monitoring Reports
AFIN: 46-00005
NPDES Permit Number AR0038822

Dear Mr. Johnson:

Cooper Tire & Rubber Company (Cooper) operates a tire manufacturing plant in Texarkana that previously discharged storm water under the subject Individual NPDES permit number. Cooper received a letter dated March 20th, 2014 requesting Cooper to provide ADEQ with Discharge Monitoring Reports (DMRs) that had been submitted for the 7/31/2013 and 8/31/2013 monitoring periods. In response to this request, Cooper submitted a letter detailing that these DMRs had not been submitted based upon guidance Cooper received from ADEQ. Subsequent to this submittal, Cooper received your request that these DMRs be completed based upon information available.

Enclosed is a DMR and related documents for the period of July 2013. Due to the termination of the Individual NPDES Permit, the fact that Outfall 001 was covered by the plants General Storm Water permit as of August 9th, and lack of rainfall during that period, no sampling was performed for the Individual NPDES Permit for the period of August 1st through the 8th. However, a completed report indicating no samples were collected for August 2013 is attached.

Mr. Brian Fincher (interim Environmental Coordinator for Cooper at that time) discussed the submission of the July DMR with Ms. Cousins of ADEQ's Water Permits Division on August 15th, 2013. Ms. Cousins informed Mr. Fincher that Cooper was not required to submit any additional reporting. Mr. Fincher reiterated his understanding of this conversation via an email sent from Mr. Fincher to Ms. Cousins dated August 16, 2013.

As you will see in the attached report, the sample taken failed the toxicity testing. At the

time Mr. Fincher noted misgivings regarding the sampling technique he used as it was his first attempt at gathering these samples. He believed that this may have resulted in the toxicity failure. However, per the above conversation with Ms. Cousins, there were no subsequent samplings performed.

If you have any additional question, or would like to discuss the matter further, please direct them to Julius Holmes at (870) 779-4260 or JBHolmes@coopertire.com.

Sincerely,
COOPER TIRE & RUBBER COMPANY



J. Scott Cole
Plant Manager

Pc: Julius Holmes
Craig Busenbark

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: COOPER TIRE & RUBBER COMPANY
ADDRESS: 3500 WASHINGTON ROAD
TEXARKANA, AR 71854
FACILITY: COOPER TIRE & RUBBER COMPANY
LOCATION: 3500 WASHINGTON ROAD
TEXARKANA, AR 71854
ATTN: ALEX PERRY/JOHN E. BODART
5 Scott Cole

| | |
|-------------------|-----------------------------------|
| AR0038822 | TX1-B |
| PERMIT NUMBER | DISCHARGE NUMBER |
| MONITORING PERIOD | |
| MM/DD/YYYY | MM/DD/YYYY |
| 07/01/2013 | 08/31/2013 08/18/13 |

DMR Mailing ZIP CODE: 71854
MINOR

001-BIMONTHLY-W.E.T. REPORT
External Outfall

No Discharge

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|--|--------------------|---------------------|-------|-------|--------------------------|-----------------|-------|---------------|--------|------------------------|-------------|
| | | VALUE | VALUE | UNITS | VALUE | VALUE | VALUE | UNITS | | | |
| 22414 10 Effluent Gross | SAMPLE MEASUREMENT | ***** | ***** | ***** | 75 | 75 | ***** | % | 1 | 1/60 | Comp 24 |
| | PERMIT REQUIREMENT | ***** | ***** | ***** | 100 DLYAVMIN | 100 48HR MIN | ***** | % | | Once Every 2 Months | COMP24 |
| LF Pass/Fail State 48Hr Acute Pimephales Promela | SAMPLE MEASUREMENT | ***** | ***** | ***** | 1 | ***** | ***** | Pass/Fail | 1 | 1/60 | Comp 24 |
| | PERMIT REQUIREMENT | ***** | ***** | ***** | Req. Mon. 48HR MIN | ***** | ***** | pass=0/fail=1 | | Once Every 2 Months | COMP24 |
| NOEC Lethal Static Renewal 48HR Acute Pimephales promelas | SAMPLE MEASUREMENT | ***** | ***** | ***** | 75 | ***** | ***** | % | 1 | 1/60 | Comp 24 |
| | PERMIT REQUIREMENT | ***** | ***** | ***** | Req. Mon. 48HR MIN | ***** | ***** | % | | Once Every 2 Months | COMP24 |

LAB: Bio-Aquatic Testing, Inc. 2501 Mayes Rd. Ste. 100 Carrollton, TX 75006

| | | | | | |
|--|---|--|--------------|---------|------------|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | 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 PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE | DATE | |
| TYPED OR PRINTED | | | 670-779-4280 | 4/18/14 | |
| | | | AREA Code | NUMBER | MM/DD/YYYY |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

BI-MONTHLY: (MAY-JUN), (JUL-AUG), (SEP-OCT), (NOV-DEC), (JAN-FEB), & (MAR-APR). PIMEPHALES PROMELAS: (PASS=0/FAIL=1) IF THE NOEC VALUE IS LESS THAN THE CRITICAL DILUTION, REPORT "1"; OTHERWISE, REPORT "0". SEE PART II, CONDITION #6. 46-00005

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: COOPER TIRE & RUBBER COMPANY
ADDRESS: 3500 WASHINGTON ROAD
TEXARKANA, AR 71854
FACILITY: COOPER TIRE & RUBBER COMPANY
LOCATION: 3500 WASHINGTON ROAD
TEXARKANA, AR 71854
ATTN: ALEX PERRYWOOD E. BODART
AFIN: 46-00005
S. Scott Cole

| | |
|-------------------|------------------|
| AR0038822 | TX1-Q |
| PERMIT NUMBER | DISCHARGE NUMBER |
| MONITORING PERIOD | |
| MM/DD/YYYY | MM/DD/YYYY |
| 7/1/2013 | 9/30/2013 |

DMR Mailing ZIP CODE: 71854
MINOR

001-QUARTERLY-DAPHNIA PULEX
External Outfall

No Discharge

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---|--------------------|---------------------|-------|-------|--------------------------|-------|-------|---------------|--------|-----------------------|-------------|
| | | VALUE | VALUE | UNITS | VALUE | VALUE | VALUE | UNITS | | | |
| LF Pass/Fail Statre 48Hr Acute Daphnia Pulex | SAMPLE MEASUREMENT | ***** | ***** | ***** | 1 | ***** | ***** | Pass/Fail | 1 | 1/90 | Comp24 |
| TEM3D 10 Effluent Gross | PERMIT REQUIREMENT | ***** | ***** | ***** | Req. Mon. 48HR MIN | ***** | ***** | pass=0/fail=1 | | Quarterly | COMP24 |
| NOEC Lethal Static Renewal 48HR Acute Daphnia pulex | SAMPLE MEASUREMENT | ***** | ***** | ***** | 75 | ***** | ***** | % | 1 | 1/90 | Comp24 |
| TOM3D 10 Effluent Gross | PERMIT REQUIREMENT | ***** | ***** | ***** | Req. Mon. 48HR MIN | ***** | ***** | % | | Quarterly | COMP24 |

Lab: Bio-Aquatic Testing, Inc. 2501 Mayes Rd. Ste. 100 Carrollton, TX 75006

| | | | | |
|--|---|--------------------|----------------|--|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | 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. | TELEPHONE | DATE | |
| TYPED OR PRINTED | | | | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT |
| <i>J. Scott Cole</i> | | <i>870779-4260</i> | <i>4/18/14</i> | |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DAPHNIA PULEX: (PASS=0/FAIL=1) IF THE NOEC VALUE IS LESS THAN THE CRITICAL DILUTION, REPORT "1"; OTHERWISE, REPORT "0". SEE PART III, CONDITION #6. 46-00005

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: COOPER TIRE & RUBBER COMPANY
ADDRESS: 3500 WASHINGTON ROAD
TEXARKANA, AR 71854
FACILITY: COOPER TIRE & RUBBER COMPANY
LOCATION: 3500 WASHINGTON ROAD
TEXARKANA, AR 71854

| | |
|-------------------|------------------|
| AR0038822 | 001-A |
| PERMIT NUMBER | DISCHARGE NUMBER |
| MONITORING PERIOD | |
| MM/DD/YYYY | MM/DD/YYYY |
| 08/01/2013 | 08/31/2013 |

DMR Mailing ZIP CODE: 71854
MINOR

001-MONTHLY-AC COND. & STORMWATER
External Outfall

No Discharge

ATTN: ALEX PERRY/JOHN E. BODART
J. Scott Cole

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|--|--------------------|---------------------|-----------------------|-------|--------------------------|---------------|-----------------|-------|--------|-----------------------|-------------|
| | | VALUE | VALUE | UNITS | VALUE | VALUE | VALUE | UNITS | | | |
| Oxygen, dissolved [DO] | SAMPLE MEASUREMENT | ***** | ***** | ***** | | ***** | ***** | | | | |
| 00300 1 0 Effluent Gross | PERMIT REQUIREMENT | ***** | ***** | ***** | 3 INST MIN | ***** | ***** | mg/L | | Monthly | GRAB |
| BOD, 5-day, 20 deg. C | SAMPLE MEASUREMENT | ***** | ***** | ***** | ***** | | | | | | |
| 00310 1 0 Effluent Gross | PERMIT REQUIREMENT | ***** | ***** | ***** | ***** | 50 MO AVG | 75 DAILY MX | mg/L | | Monthly | GRAB |
| pH | SAMPLE MEASUREMENT | ***** | ***** | ***** | | ***** | | | | | |
| 00400 1 0 Effluent Gross | PERMIT REQUIREMENT | ***** | ***** | ***** | 6 MINIMUM | ***** | 9 MAXIMUM | SU | | Monthly | GRAB |
| Solids, total suspended | SAMPLE MEASUREMENT | ***** | ***** | ***** | ***** | | | | | | |
| 00530 1 0 Effluent Gross | PERMIT REQUIREMENT | ***** | ***** | ***** | ***** | | 53 DAILY MX | mg/L | | Monthly | GRAB |
| Oil & Grease | SAMPLE MEASUREMENT | ***** | ***** | ***** | ***** | | | | | | |
| 00556 1 0 Effluent Gross | PERMIT REQUIREMENT | ***** | ***** | ***** | ***** | 10 MO AVG | 15 DAILY MX | mg/L | | Monthly | GRAB |
| Zinc, total recoverable | SAMPLE MEASUREMENT | ***** | ***** | ***** | ***** | | | | | | |
| 01094 1 0 Effluent Gross | PERMIT REQUIREMENT | ***** | ***** | ***** | ***** | 116 MO AVG | 232 DAILY MX | ug/L | | Monthly | COMP-3 |
| Flow, in conduit or thru treatment plant | SAMPLE MEASUREMENT | | | | ***** | ***** | ***** | ***** | | | |
| 50050 1 0 Effluent Gross | PERMIT REQUIREMENT | Req. Mon. MO AVG | Req. Mon. DAILY MX | MGD | ***** | ***** | ***** | ***** | | Daily | CALCTD |

| | | | | |
|--|---|--|--------------|---------|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | 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 ensure 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. | TELEPHONE | DATE | |
| <i>J. Scott Cole</i> | | <i>J. Scott Cole</i> | 870-779-4200 | 4/18/14 |
| TYPED OR PRINTED | | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | AREA Code | NUMBER |
| | | | MM/DD/YYYY | |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

REPORT FLOW AS MONTHLY AVG. & DAILY MAX. IN MILLION GALLONS/DAY. SEE PART III, #4. APPEALED 04/29/2009. PER REG.8.6612, REPORT ALL PARAMETERS * WITH THE EXCEPTION OF MERCURY * DURING THE PENDENCY OF THE COMMISSION REVIEW. 46-00005

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: COOPER TIRE & RUBBER COMPANY
ADDRESS: 3500 WASHINGTON ROAD
TEXARKANA, AR 71854
FACILITY: COOPER TIRE & RUBBER COMPANY
LOCATION: 3500 WASHINGTON ROAD
TEXARKANA, AR 71854

| | |
|-------------------|------------------|
| AR0038822 | 001-A |
| PERMIT NUMBER | DISCHARGE NUMBER |
| MONITORING PERIOD | |
| MM/DD/YYYY | MM/DD/YYYY |
| 07/01/2013 | 07/31/2013 |

DMR Mailing ZIP CODE: 71854
MINOR

001-MONTHLY-AC COND. & STORMWATER
External Outfall

No Discharge

ATTN: ALEX PERRY/JOHN E. BOBART
S. Scott Cole

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|--|--------------------|---------------------|-----------------------|-------|--------------------------|---------------|-----------------|-------|--------|-----------------------|-------------|
| | | VALUE | VALUE | UNITS | VALUE | VALUE | VALUE | UNITS | | | |
| Oxygen, dissolved [DO] | SAMPLE MEASUREMENT | ***** | ***** | ***** | 8.1 | ***** | ***** | mg/L | 0 | 1/30 | Grab |
| 00300 1 0 Effluent Gross | PERMIT REQUIREMENT | ***** | ***** | ***** | 3 INST MIN | ***** | ***** | mg/L | | Monthly | GRAB |
| BOD, 5-day, 20 deg. C | SAMPLE MEASUREMENT | ***** | ***** | ***** | ***** | 13.7 | 13.7 | mg/L | 0 | 1/30 | Grab |
| 00310 1 0 Effluent Gross | PERMIT REQUIREMENT | ***** | ***** | ***** | ***** | 50 MO AVG | 75 DAILY MX | mg/L | | Monthly | GRAB |
| pH | SAMPLE MEASUREMENT | ***** | ***** | ***** | 6.47 | ***** | 6.47 | SU | 0 | 1/30 | Grab |
| 00400 1 0 Effluent Gross | PERMIT REQUIREMENT | ***** | ***** | ***** | 6 MINIMUM | ***** | 9 MAXIMUM | SU | | Monthly | GRAB |
| Solids, total suspended | SAMPLE MEASUREMENT | ***** | ***** | ***** | ***** | ***** | 6.15 | mg/L | 0 | 2/30 | Grab |
| 00530 1 0 Effluent Gross | PERMIT REQUIREMENT | ***** | ***** | ***** | ***** | ***** | 53 DAILY MX | mg/L | | Monthly | GRAB |
| Oil & Grease | SAMPLE MEASUREMENT | ***** | ***** | ***** | ***** | ND | ND | mg/L | 0 | 1/30 | Grab |
| 00556 1 0 Effluent Gross | PERMIT REQUIREMENT | ***** | ***** | ***** | ***** | 10 MO AVG | 15 DAILY MX | mg/L | | Monthly | GRAB |
| Zinc, total recoverable | SAMPLE MEASUREMENT | ***** | ***** | ***** | ***** | 716 | 716 | ug/L | 1 | 1/30 | Comp-3 |
| 01094 1 0 Effluent Gross | PERMIT REQUIREMENT | ***** | ***** | ***** | ***** | 116 MO AVG | 232 DAILY MX | ug/L | | Monthly | COMP-3 |
| Flow, in conduit or thru treatment plant | SAMPLE MEASUREMENT | 0.11071 | 0.228 | MGD | ***** | ***** | ***** | ***** | | daily | calctd |
| 50050 1 0 Effluent Gross | PERMIT REQUIREMENT | Req. Mon. MO AVG | Req. Mon. DAILY MX | MGD | ***** | ***** | ***** | ***** | | Daily | CALCTD |

| | | | | | |
|--|---|--|-------------|---------|------------|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | 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 PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE | DATE | |
| TYPED OR PRINTED | | | 670-7794260 | 4/18/14 | |
| | | | AREA Code | NUMBER | MM/DD/YYYY |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

REPORT FLOW AS MONTHLY AVG. & DAILY MAX. IN MILLION GALLONS/DAY. SEE PART III, #4. APPEALED 04/29/2009. PER REG. 8.6612, REPORT ALL PARAMETERS * WITH THE EXCEPTION OF MERCURY DURING THE PENDENCY OF THE COMMISSION REVIEW. 4600005

LAB: Ana-Lab Corp PO. Box 9000 Kilgore TX, 75663

NON-COMPLIANCE REPORT

Arkansas Department of Environmental Quality
 NPDES Enforcement Section
 5301 Northshore Drive
 North Little Rock, AR 72118

RE: NPDES Permit No: AR0038822 Discharge Number: 001-A
 Facility: Cooper Tire & Rubber Company
 Address: 3500 Washington Road
 City: Texarkana State: AR Zip: 71854
 Contact: Julius B. Holmes Phone: 870-779-4260

| Date of Non-Compliance | Parameter Exceeded | Quantity or Loading | Quality or Concentration | Permit Limits |
|------------------------|--------------------|---------------------|--------------------------|---------------|
| 7/15/13 | Zinc | — | 716 ug/L | 232 ug/L |
| | | | | |
| | | | | |

We feel this problem was due to:

Accumulation of fugitive dust from the rubber mixing process and contribution of background concentrations of zinc.

We plan on correcting the problem in this manner:

Continue targeted housekeeping of the mixing process and maintain BMPs in place to minimize potential for zinc releases.

Time estimated that it will take to correct problem:

Unknown at this time. This is a historical issue with engineering studies indicating there is no feasible solution to meet current permit limits.

Sincerely,


 Authorized Signature

4/18/14
 Date



Approved

Texarkana Document

| | | | |
|---|--------------------------|-----------------|--------------|
| Title: | Sample & Calibration Log | Document #: | TEX-1402 |
| Process Owner: | Holmes, Julius B. | Revision: | 4 |
| Review Date: | May 6, 2014 | Effective Date: | May 16, 2012 |
| OFFICE USE ONLY - PLEASE DO NOT MODIFY SHADED AREA | | | |

Sample Log

NPDES Outfall 001 POTW Outfall _____ Other: _____
 Date 7/19/2013

pH Meter Calibration

pH Buffers 4.01 7.00 10.01 Temp 25°C
 Initial Reading N/A N/A N/A
 Final Reading N/A N/A N/A N/A °C
 QC _____ S.U. Reading _____ S.U.
 Date N/A Time N/A By _____

DO Meter Calibration

% Saturation 100% 0.00%
 Initial Reading N/A N/A
 Final Reading N/A N/A
 QC _____ mg/l Reading _____ mg/l
 Date _____ Time _____ By _____

Sample Collection

Autosampler X Manual _____ Start Time 12:45 Stop Time 19:30
 Autosampler Maintenance / Comments _____
 Rainfall .24 inches Gauge _____ Estimate X Source NWS
 Total Flow _____ MGD Meter _____ Estimate _____ Source _____

pH/DO Collected Time _____ Date _____ By _____
 pH/DO Analyzed Time _____ Date _____ By _____
 Instantaneous Flow _____ gpm
 pH Measured _____ S.U. DO Measured _____ mg/l Temp Measured _____ °C
 pH / DO Meter Maintenance / Comments _____

Analysis Requested:

COD _____ TSS X BOD _____ O&G (HEM) _____ TPH (SGT) _____ Zinc _____
 Molybdenum _____ Lead _____ Mercury _____ Biomonitoring: _____
 Other: _____

Sample Characteristics / Comments



COOPERTIRES

Approved

Texarkana Document

| | | | |
|---|--------------------------|-----------------|--------------|
| Title: | Sample & Calibration Log | Document #: | TEX-1402 |
| Process Owner: | Holmes, Julius B. | Revision: | 4 |
| Review Date: | May 6, 2014 | Effective Date: | May 16, 2012 |
| OFFICE USE ONLY - PLEASE DO NOT MODIFY SHADED AREA | | | |

Sample Log

NPDES Outfall 001 POTW Outfall _____ Other: _____
 Date 7/15/2013

pH Meter Calibration

pH Buffers 4.01 7.00 10.01 Temp 25°C
 Initial Reading 4.31_ 7.02_ 10.09_
 Final Reading 4.01_ 7.00_ 10.01_ 21.9 °C
 QC _____ S.U. Reading _____ S.U.
 Date 7/15/2013 Time 8:40 By Brain Fincher

DO Meter Calibration

% Saturation 100% 0.00%
 Initial Reading 103.2%_ 3.8%_
 Final Reading 100%_ 0.0%_
 QC NA mg/l Reading NA mg/l
 Date 7/15/2013 Time 8:45 By Brain Fincher

Sample Collection

Autosampler X Manual _____ Start Time _____ Stop Time _____
 Autosampler Maintenance / Comments _____
 Rainfall 29 inches Gauge _____ Estimate X Source NWS
 Total Flow _____ MGD Meter _____ Estimate _____ Source _____
 pH/DO Collected Time 8:45 Date 7/15/2013 By Brain Fincher
 pH/DO Analyzed Time 8:45 Date 7/15/2013 By Brain Fincher
 Instantaneous Flow 29,860 gpm
 pH Measured 6.47 S.U. DO Measured 8.1 mg/l Temp Measured 22.3 °C
 pH / DO Meter Maintenance / Comments _____

Analysis Requested:

COD _____ TSS X BOD X O&G (HEM) X TPH (SGT) X Zinc X
 Molybdenum _____ Lead _____ Mercury _____ Biomonitoring: _____
 Other: _____
 Sample Characteristics / Comments _____

Report

1
2
3
4
5
6
7

Report To

Sams/Fincher
Cooper Tire
Environmental Mgr.
3500 E. Washington Rd
Texarkana, AR 71854-

Table of Contents

Account

CTR1-L

Project

620684

Biomonitoring

This report consists of this Table of Contents and the following pages:

| <u>Report Name</u> | <u>Description</u> | <u>Pages</u> |
|---------------------------------|--|--------------|
| 620684_r02_01_ProjectSamples | Ana-Lab Project P:620684 C:CTR1 Project Sample Cross Reference | 1 |
| 620684_r11_01_ProjectFees | Ana-Lab Project P:620684 C:CTR1 Project Fee | 1 |
| 620684_r11_01_ProjectFeeSummary | Ana-Lab Project P:620684 C:CTR1 Project Fee | 1 |
| 620684_r99_09_CoC_1_of_3 | Ana-Lab CoC CTR1 620684_1_of_3 | 10 |
| 620684_r99_09_CoC_2_of_3 | Ana-Lab CoC CTR1 620684_2_of_3 | 10 |
| 620684_r99_09_CoC_3_of_3 | Ana-Lab CoC CTR1 620684_3_of_3 | 2 |
| Total Pages: | | 25 |

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662



NELAP-accredited #T104704201

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com
 Employee Owned Integrity Caring

LELAP-accredited #02008
 Continual Improvement

- [1]
- [2]
- [3]
- [4]
- [5]
- [6]
- [7]

Sample Cross Reference

Page 1 of 1

Report To

Sams/Fincher
 Cooper Tire
 Environmental Mgr.
 3500 E. Washington Rd
 Texarkana, AR 71854-

Project

620684

Biomonitoring

| Sample | Sample ID | Taken | Time | Received | | |
|---------|---------------|---------------|----------------|--------------------|----------------|-------------------|
| 1228135 | Biomonitoring | 07/17/2013 | | 08/01/2013 | | |
| | Method | Bottle | PrepSet | Preparation | QcGroup | Analytical |
| | Subcontract | | | 08/01/2013 | | 08/01/2013 |
| | Subcontracted | | | 08/01/2013 | | 08/01/2013 |



Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com

LELAP-accredited #02008

Draft Fees

Not an Invoice -- Please Do Not Pay This Draft

620684

Report To

Sams/Fincher
Cooper Tire
Environmental Mgr.
3500 E. Washington Rd
Texarkana, AR 71854-

Printed: 08/01/2013 Page 1 of 1

Biomonitoring

1228135 Biomonitoring

Received: 08/01/2013

Liquid Aqueous

Collected by: Client

Affiliation: Cooper Tire

07/17/2013

Biomonitoring analysis subcontracted to Bio Aquatics

Subcontract

Analyzed: SKL 08/01/2013 11:00:00 QCgroup

Acute 48-Hr Daphnia Pulex

455.00

Subcontracted

Analyzed: SKL 08/01/2013 11:00:00 QCgroup

Acute 48 Hr Pimephales promelas

455.00

1228135 Sample Fee 910.00

The above methods that we used are approved for NPDES reporting as listed in 40 CFR 136 Table 1B or Ana-Lab has specific approval from EPA to use these methods for NPDES reporting.

Project Fee: \$910.00

C. H. Whiteside, Ph.D., President



Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com

LELAP-accredited #02008

Employee Owned Integrity Caring Continual Improvement

Draft Project Fee Summary

Printed 08/01/2013 Page 1 of 1

This is Not an Invoice - Please do not pay this Draft

620684

Biomonitoring

| | <u>Name</u> | <u>Count</u> | <u>Fee</u> | <u>Total</u> |
|---|---------------------------------|----------------------|------------|--------------|
| S | | SUBCONTRACT | | |
| | Acute 48-Hr Daphnia Pulex | 1 | 455.00 | \$455.00 |
| S | | SUBCONTRACTED | | |
| | Acute 48 Hr Pimephales promelas | 1 | 455.00 | \$455.00 |

\$910.00



1
2
3
4
5
6
7

- 1
- 2
- 3
- 4
- 5
- 6
- 7

1 of 10

620684 CoC Print Group 001 of 003



Bio-Aquatic Testing, Inc.



**Ana-Lab
Cooper Tire & Rubber Co.
OUTFALL NPDES 001**

48 Hr Acute Biomonitoring Report

51571

Daphnia pulex
Pimephales promelas

July 17, 2013

Approved by: Chris Robason
Chris Robason,
President

Bio-Aquatic Testing, Inc. • 2501 Mayes Rd. Ste. 100 • Carrollton, Texas • 75006



2 of 10

620684 CoC Print Group 001 of 003

TABLE OF CONTENTS

| | |
|---------------------------------|------------|
| TOXICITY TEST REPORT | 3 |
| TEST SUMMARY | 5 |
| STATISTICAL & CHEMICAL ANALYSIS | Appendix A |
| REFERENCE TOXICANTS | Appendix B |
| LITERATURE REFERENCES | Appendix C |
| CHAIN-OF-CUSTODY SHEETS | Appendix D |
| REGULATORY AGENCY TABLES | Appendix E |

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*HAND-WRITTEN RAW DATA TABLES ARE AVAILABLE UPON REQUEST

3 of 10

620684 CoC Print Group 001 of 003

BIO-AQUATIC TESTING, INC.2501 Mayes Road, Suite 100
Carrollton, Texas 75006
Tel: (972) 242-7750
Fax: (972) 242-7749

TOXICITY TEST REPORT - 48 Hr Acute

| | | | |
|------------|--------------------------|--------------------|---------------|
| Client: | Ana-Lab | Sample: | NPDES 001 |
| Facility: | Cooper Tire & Rubber Co. | Laboratory Number: | 51571 |
| Permit No. | AR0038822 | Date: | July 17, 2013 |

Daphnia pulex and *Pimephales promelas* failed survival testing requirements.

SAMPLE COLLECTION: Composite effluent samples from Ana-Lab, Cooper Tire & Rubber Co., were received on July 17, 2013 and July 18, 2013. Effluent samples were collected from Outfall NPDES 001 by facility personnel.

The effluent samples were analyzed for total residual chlorine using the Hanna Ion Specific Meter #193711 and contained <0.10 mg/L and <0.10 mg/L, respectively. Effluent and laboratory dilution water pH, temperature, and dissolved oxygen data were collected daily.

TEST PROCEDURES:
Daphnia pulex

EPA METHOD: 2021
The 48 Hr Acute *Daphnia pulex* test was initiated at 11:40 hours on July 17, 2013. Five effluent concentrations of 32%, 42%, 56%, 75%, and 100% were prepared utilizing synthetic water. The test was set up with 30mL plastic cups containing 20mL of test solution. Each concentration or control consisted of five replicate cups with eight organisms each, giving a total of 40 (forty) per treatment. The control was conducted concurrently with the test. Test organisms were less than 24-hour old laboratory cultured neonates. Organisms were introduced into the test solutions using a blocking design. Food consisting of a half-milliliter suspension of the green algae, *Selenastrum capricornutum*, and YTC was added to the test solutions each day. The test proceeded for 48 hours. Data on survival was collected daily and water quality parameters were recorded after each 24-hour period. The test was renewed daily with newly prepared solutions. The test ended at 12:00 hours on July 19, 2013. Survival data was statistically ($p=0.05$) analyzed according to EPA procedures to determine the Lowest Observable Effect Concentration (LOEC) and the No Observable Effect Concentration (NOEC).

SURVIVAL:*Daphnia pulex*

The *Daphnia pulex* survival data failed Shapiro Wilk's test for normality at the 0.01 (0.900) alpha level after the arc sine (square root (Y)) transformation. Bartlett's test for homogeneity is sensitive to non-normal data and should not be performed if data fails Shapiro Wilk's test. The non-parametric Steel's Many-One Rank test performed on *Daphnia pulex* survival data demonstrated a statistically significant difference between the control and the 100% effluent concentration tested.

LOEC: 100% Effluent

NOEC: 75% Effluent

TEST PROCEDURES:*Pimephales promelas***EPA METHOD: 2000**

The 48 Hr Acute *Pimephales promelas* test was initiated at 15:30 hours on July 17, 2013. Five effluent concentrations of 32%, 42%, 56%, 75%, and 100% were prepared utilizing synthetic water. The test was set up with 450mL plastic cups containing 250mL of test solution as test chambers. Each concentration or control consisted of five replicate chambers containing eight organisms each, giving a total of 40 (forty) per treatment. The control was conducted concurrently with the test. Test organisms were laboratory cultured *P. promelas* eight days old, and all larvae used in each test are hatched within 24 hours of each other. The number of surviving larvae and water quality parameters were recorded after each 24 hour period. The test was renewed daily with fresh solutions. Surviving larvae in each test chamber were fed freshly hatched brine shrimp two times per day. The test proceeded for 48 hours. The test ended at 16:04 hours on July 19, 2013. Survival was statistically ($p=0.05$) analyzed according to EPA procedures to determine the Lowest Observable Effect Concentration (LOEC) and the No Observable Effect Concentration (NOEC).

SURVIVAL:*Pimephales promelas*

Pimephales promelas survival data failed Shapiro Wilk's test for normality at the 0.01 (0.900) alpha level after the arc sine (square root (Y)) transformation. Bartlett's test for homogeneity is sensitive to non-normal data and should not be performed if data fails Shapiro Wilk's test. The non-parametric Steel's Many-One Rank test performed on *Pimephales promelas* survival data demonstrated a statistically significant difference between the control and the 100% effluent concentration tested.

LOEC: 100% Effluent

NOEC: 75% Effluent

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5 of 10

620684 CoC Print Group 001 of 003

BIO-AQUATIC TESTING, INC.

TOXICITY TEST

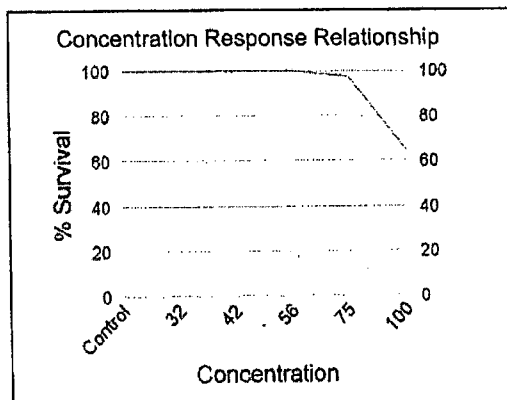
48 Hr Acute *Daphnia pulex*

Client: Ana-Lab Cooper Tire & Rubber Co. Lab ID: 51571
 Permit Number: ADPCE AR0038822 Test Temperature (oC): 25 ± 1
 Sample Type: Composite Outfall Name: NPDES 001 Photo Period: 16 hours light
 Receiving Water Name: Begin Date: 7/17/2013 8 hours dark
 End Date: 7/19/2013

Test Start Time: 11:40 Test End Time: 12:00

| Effluent Con. % | SURVIVAL | | | | | | | | | | | | | | | Avg% Surv. |
|-----------------------|-------------------------------|---|---|---|---|------|---|---|---|---|------|---|---|---|---|---------------|
| | Number Of Alive Per Replicate | | | | | | | | | | | | | | | |
| | 7/17 | | | | | 7/18 | | | | | 7/19 | | | | | |
| | A | B | C | D | E | A | B | C | D | E | A | B | C | D | E | |
| Control | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 100.0% |
| 32 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 100.0% |
| 42 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 100.0% |
| 56 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 100.0% |
| 75 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 8 | 97.5% |
| 100 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 6 | 5 | 6 | 4 | 5 | 65.0% |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

*spilled cup



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6 of 10

620684 CoC Print Group 001 of 003

BIO-AQUATIC TESTING, INC.

TOXICITY TEST

48 Hr Acute *Pimephales promelas*

Client: Ana-Lab Cooper Tire & Rubber Co.

Lab ID: 51571

Permit Number: ADPCE AR0038822

Test Temperature (oC): 25 ± 1

Sample Type: Composite Outfall Name: NPDES 001

Photo Period: 16 hours light
8 hours dark

Receiving Water Name:

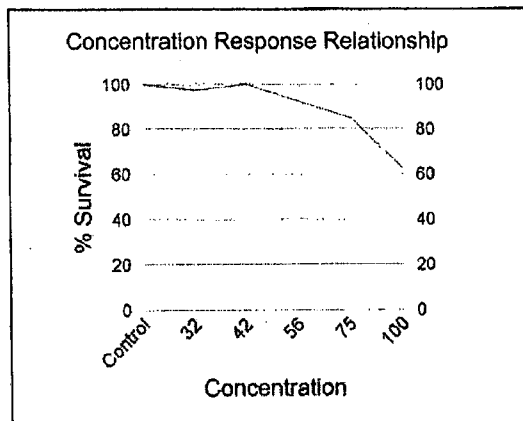
Test Start Time: 15:30 Test End Time: 16:04

Begin Date: 7/17/2013

End Date: 7/19/2013

| Effluent Concentration % | SURVIVAL | | | | | | | | | | | | | | | Avg% Surv. |
|--------------------------|-------------------------------|---|---|---|---|------|---|---|---|---|------|---|---|---|---|------------|
| | Number Of Alive Per Replicate | | | | | | | | | | | | | | | |
| | 7/17 | | | | | 7/18 | | | | | 7/19 | | | | | |
| | A | B | C | D | E | A | B | C | D | E | A | B | C | D | E | |
| Control | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 100.0% |
| 32 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 97.5% |
| 42 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 100.0% |
| 56 | 8 | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 8 | 8 | 7 | 7 | 8 | 8 | 7 | 92.5% |
| 75 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 8 | 5 | 85.0% |
| 100 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 6 | 5 | 3 | 4 | 62.5% |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

* cup spilled



APPENDIX A

STATISTICS SUMMARY

Both the lethal and sub-lethal endpoints were statistically calculated according to their respective EPA guidelines. The Chronic Freshwater organisms were calculated according to EPA-821-R-02-013, October 2002 Fourth Edition. The Chronic Marine and Estuarine organisms were calculated according to EPA-821-R-02-014, October 2002 Third Edition. The Acute Freshwater and Marine organisms were calculated according to EPA-821-R-02-012, October 2002 Fifth Edition. Listed below are the basic principles of these guidelines. If you would like a copy of the raw statistical calculations for your test then please contact us.

The chronic and acute *Pimephales promelas* and *Menidia beryllina* survival data is analyzed using Shipiro Wilks Test and Bartlett's Test. If the data passes both tests then the data is run through ANOVA and Dunnetts (parametric). If the data fails Shipiro Wilks Test or Bartlett's Test then Steels Many One Test (non-parametric) is used. The chronic *Pimephales promelas* and *Menidia beryllina* growth data is analyzed using Shipiro Wilks Test and Bartlett's Test. If the data passes one of these tests then the data is run through ANOVA and Dunnetts. If the data fails Shipiro Wilks Test and Bartlett's Test then Steels Many One Test is used.

The chronic *Mysidopsis bahia* survival data is analyzed using Chi-square test and Bartlett's Test. If the data passes both tests then the data is run through ANOVA and Dunnetts. If the data fails Chi-square test or Bartlett's Test then Steels Many One Test is used. *Mysidopsis bahia* growth data is analyzed using Chi-square test and Bartlett's Test. If the data passes one of these tests then the data is run through ANOVA and Dunnetts. If the data fails Chi-square test and Bartlett's Test then Steels Many One Test is used.

The acute *Mysidopsis bahia* survival data is analyzed using Shipiro Wilks Test and Bartlett's Test. If the data passes both tests then the data is run through ANOVA and Dunnetts. If the data fails Shipiro Wilks Test or Bartlett's Test then Steels Many One Test is used.

The chronic *Ceriodaphnia dubia* survival data are analyzed using the Fisher's Exact Test. The chronic *Ceriodaphnia dubia* reproduction and are analyzed using the Chi-square test and Bartlett Test. If the data passes one of these tests then the data is run through ANOVA and Dunnetts. If the data fails Chi-square test and Bartlett's Test then Steels Many One Test is used.

The acute *Daphnia pulex* and *Ceriodaphnia dubia* survival data is analyzed using Shipiro Wilks Test and Bartlett's Test. If the data passes both tests then the data is run through ANOVA and Dunnetts. If the data fails Shipiro Wilks Test or Bartlett's Test then Steels Many One Test is used.

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620684 CoC Print Group 001 of 003

51571

Bio-Aquatic Testing, Inc.

2501 Mayes Road, Suite 100
Carrollton, TX 75006
Tel: 972-242-7750
Fax: 972-242-7749

FRESH WATER TEST SETUP FORM

Client: Ana-Lab Permit AR0038822

Facility: Cooper Tire & Rubber Co. Lab Number 51571

Outfall Name: NPDES 001 Number of samples 2

Dilution Water: Synthetic Lab

Receiving Water Name: _____

Dechlorinate Sample: No

| Sx # | Rcvd Date | Rcvd Time | Sampling Dates | | Sampling Times | |
|------|-----------|-----------|----------------|----------|----------------|-------|
| | | | Begin Date | End Date | Start | End |
| 1 | 07/17/13 | 08:45 | 07/15/13 | 07/16/13 | 11:45 | 11:30 |
| 2 | 07/18/13 | 09:15 | 07/16/13 | 07/17/13 | 12:00 | 11:50 |
| | | | | | | |
| | | | | | | |

| Type of Test(s) | |
|----------------------------|--------------------|
| <u>Daphnia pulex</u> | <u>48 Hr Acute</u> |
| <u>Pimephales promelas</u> | <u>48 Hr Acute</u> |

Start Sx # 1 Date: 7/17/2013
 Renew Sx # 2 Date: 7/18/2013
 Renew Sx # _____ Date: _____
 Renew Sx # _____ Date: _____
 Renew Sx # _____ Date: _____
 Renew Sx # _____ Date: _____
 Renew Sx # _____ Date: _____

Controls: Synthetic
 pH Match: _____
 Hardness Match: moderate

Test Start Date: 7/17/2013 Test End Date: 7/19/2013

Daphnia pulex Test Set Up: 5 Reps & 8 Organisms per Rep

Pimephales Test Set Up: 5 Reps & 8 Organism per Rep

Concentrations: 32 42 56 75 100 % LF % 100

Test Chemistry on these dilutions: 32 42 56 75 100

Samples received by:

| | | | |
|--|---|--|-----------------------------|
| <input checked="" type="radio"/> Greyhound | <input type="radio"/> UPS Next Day | <input type="radio"/> Delta Dash | <input type="radio"/> Delta |
| <input type="radio"/> Pony Express | <input type="radio"/> Client Delivered | <input type="radio"/> Southwest Airlines | <input type="radio"/> DHL |
| <input type="radio"/> Federal Express | <input type="radio"/> American Airlines | <input type="radio"/> Bio Pick Up | |

Other: _____

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620684 CoC Print Group 001 of 003

BIO-AQUATIC TESTING, INC.

Hardness, Alkalinity, Residual Chlorine, Specific Conductivity, and Salinity Analysis Data

Client: Ana-Lab Lab ID: 51571
 Facility: Cooper Tire & Rubber Co. Outfall: NPDES 001
 Dilution Water(s): Synthetic Lab Test Date: July 17, 2013

** 100 %

| Effluent Sample # | Received | | ** Residual Cl ₂ | DeChlor (ml/L) | ** Ammonia mg/L | Analyst Initials | Initial Salinity | Adjusted Salinity | Temp. Received |
|-------------------|----------|------|-----------------------------|----------------|-----------------|------------------|------------------|-------------------|----------------|
| | Date | Time | | | | | | | |
| 1 | 7/17/13 | 8:45 | <0.10 | N/A | <0.25 | DF | N/A | N/A | 3.9 |
| 2 | 7/18/13 | 9:15 | <0.10 | N/A | <0.25 | DF | N/A | N/A | 3.6 |
| | | | | | | | | | |
| | | | | | | | | | |

Chlorine Analysis Method: Hanna Ion Specific Meter #193711 Dechlorination Reagent: Sodium Thiosulfate

| Sample # | Received | | Hardness (EDTA) As mg/L CaCO ₃ | | ALKALINITY TO END POINT pH 4.50 +/- 0.05 as mg/L CaCO ₃ | | Analyst Initials |
|----------|----------|------|---|------|--|------|------------------|
| | Date | Time | As mg/L CaCO ₃ | | as mg/L CaCO ₃ | | |
| | | | CON | 100 | CON | 100 | |
| 1 | 7/17/13 | 8:45 | 140.0 | 78.0 | 60.0 | 48.0 | CH/AC |
| 2 | 7/18/13 | 9:15 | 140.0 | 92.0 | 60.0 | 70.0 | PW/CH |
| | | | | | | | |
| | | | | | | | |

| Date | Sample # | Values are at Highest Dilution | | Values are at 100% Dilution | | Analyst | Other |
|------|----------|-----------------------------------|----------------|--|---|---------|-------|
| | | Specific Conductivity as umhos/cm | Salinity (ppt) | Residual Chlorine as mg Cl ₂ /L | 1 ml 0.02N Na ₂ S ₂ O ₄ /L | | |
| 7/17 | Lab H2O | 331 | 0.2 | | | DS | |
| 7/18 | Lab H2O | 332 | 0.2 | | | AMC | |
| 7/19 | Lab H2O | | | | | DP | |
| 7/20 | Lab H2O | | | | | | |
| 7/21 | Lab H2O | | | | | | |
| 7/22 | Lab H2O | | | | | | |
| 7/23 | Lab H2O | | | | | | |
| 7/17 | OUTFALL* | 1 | 1790 | 0.9 | <0.10 | N/A | DS |
| 7/18 | OUTFALL* | 2 | 2337 | 1.2 | <0.10 | N/A | AMC |
| 7/19 | OUTFALL* | | | | | | DP |
| 7/20 | OUTFALL* | | | | | | |
| 7/21 | OUTFALL* | | | | | | |
| 7/22 | OUTFALL* | | | | | | |
| 7/23 | OUTFALL* | | | | | | |

*Conductivity is taken on the highest remaining effluent concentration used for test renewal, not necessarily 100%

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10 of 10

620684 CoC Print Group 001 of 003

BIO-AQUATIC TESTING, INC.
pH, Dissolved Oxygen

48 Hr Acute

Daphnia pulex

Client: Ana-Lab

Lab ID: 51571

Facility: Cooper Tire & Rubber Co.

Dilution Water(s): Synthetic Lab

Outfall: NPDES 001

Test Begin Date: July 17, 2013

NR indicates that the test is non-renewal.

| ANALYST | DATE | TIME | SX# | UNIT | Concentration | | | | | | | |
|---------|------|--------|-----------|-----------|---------------|-----|-----|-----|-----|-----|--|--|
| | | | | | Control | 32 | 42 | 56 | 75 | 100 | | |
| DS | 7/17 | Start | 1 | pH | 8.1 | 8.0 | 8.0 | 7.9 | 7.5 | 7.4 | | |
| | | 25 ± 1 | | DO (mg/L) | 8.5 | 8.4 | 8.4 | 8.4 | 8.4 | 8.3 | | |
| AMC | 7/18 | 24 Hr | 1 | pH | 8.2 | 8.1 | 8.2 | 8.2 | 8.2 | 8.2 | | |
| | | 25 ± 1 | | DO (mg/L) | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | | |
| | | Renew | 2 | pH | 7.9 | 7.9 | 8.0 | 8.0 | 7.9 | 7.9 | | |
| | | | | DO (mg/L) | 8.1 | 8.2 | 8.2 | 8.3 | 8.2 | 8.1 | | |
| DP | 7/19 | 48 Hr | 2 | pH | 8.0 | 7.9 | 7.9 | 7.9 | 7.9 | 7.8 | | |
| | | 25 ± 1 | | DO (mg/L) | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.2 | | |
| | | Renew | | pH | | | | | | | | |
| | | | | DO (mg/L) | | | | | | | | |
| | 7/20 | 72 Hr | | pH | | | | | | | | |
| | | 25 ± 1 | DO (mg/L) | | | | | | | | | |
| | | Renew | | pH | | | | | | | | |
| | | | | DO (mg/L) | | | | | | | | |
| | 7/21 | 96 Hr | | pH | | | | | | | | |
| | | 25 ± 1 | DO (mg/L) | | | | | | | | | |
| | | Renew | | pH | | | | | | | | |
| | | | | DO (mg/L) | | | | | | | | |
| | 7/22 | 120 Hr | | pH | | | | | | | | |
| | | 25 ± 1 | DO (mg/L) | | | | | | | | | |
| | | Renew | | pH | | | | | | | | |
| | | | | DO (mg/L) | | | | | | | | |
| | 7/23 | 144 Hr | | pH | | | | | | | | |
| | | 25 ± 1 | DO (mg/L) | | | | | | | | | |
| | | Renew | | pH | | | | | | | | |
| | | | | DO (mg/L) | | | | | | | | |
| | 7/24 | 168 Hr | | pH | | | | | | | | |
| | | 25 ± 1 | DO (mg/L) | | | | | | | | | |

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BIO-AQUATIC TESTING, INC.

pH, Dissolved Oxygen

48 Hr Acute

Pimephales promelas

Client: Ana-Lab

Lab Number: 51571

Facility: Cooper Tire & Rubber Co.

Dilution Water(s): Synthetic Lab

Outfall: NPDES 001

Test Begin Date: July 17, 2013

NR Indicates that the test is non-renewal.

| ANALYST | DATE | TIME | SX# | UNIT | Concentration | | | | | | | |
|---------|------|--------|-----|-----------|---------------|-----|-----|-----|-----|-----|--|--|
| | | | | | Control | 32 | 42 | 56 | 75 | 100 | | |
| DS | 7/17 | Start | 1 | pH | 8.1 | 8.0 | 8.0 | 7.9 | 7.5 | 7.4 | | |
| | | 25 ± 1 | | DO (mg/L) | 8.5 | 8.4 | 8.4 | 8.4 | 8.4 | 8.3 | | |
| AMC | 7/18 | 24 Hr | 1 | pH | 7.7 | 7.8 | 7.8 | 7.8 | 7.9 | 7.9 | | |
| | | 25 ± 1 | | DO (mg/L) | 7.9 | 7.9 | 7.9 | 7.9 | 7.8 | 7.6 | | |
| | | Renew | 2 | pH | 7.9 | 7.9 | 8.0 | 8.0 | 7.9 | 7.9 | | |
| | | | | DO (mg/L) | 8.1 | 8.2 | 8.2 | 8.3 | 8.2 | 8.1 | | |
| DP | 7/19 | 48 Hr | 2 | pH | 7.8 | 7.8 | 7.7 | 7.6 | 7.6 | 7.5 | | |
| | | 25 ± 1 | | DO (mg/L) | 8.0 | 7.9 | 7.9 | 7.9 | 7.8 | 7.8 | | |
| | 7/20 | 72 Hr | | pH | | | | | | | | |
| | | 25 ± 1 | | DO (mg/L) | | | | | | | | |
| | 7/21 | 96 Hr | | pH | | | | | | | | |
| | | 25 ± 1 | | DO (mg/L) | | | | | | | | |
| | 7/22 | 120 Hr | | pH | | | | | | | | |
| | | 25 ± 1 | | DO (mg/L) | | | | | | | | |
| | 7/23 | 144 Hr | | pH | | | | | | | | |
| | | 25 ± 1 | | DO (mg/L) | | | | | | | | |
| | 7/24 | 168 Hr | | pH | | | | | | | | |
| | | 25 ± 1 | | DO (mg/L) | | | | | | | | |

620684 CoC Print Group 002 of 003

Appendix B*Daphnia pulex***BIO-AQUATIC TESTING, INC.**

Carrollton, TX

REFERENCE TOXICANTS

Bio-Aquatic Testing conducts reference toxicant testing monthly for organisms cultured in-house. For studies requiring purchased organisms, reference toxicant testing is performed simultaneously. Reference toxicant testing validates data and measures organism consistency. Only reagent grade chemicals are used of the following choices: sodium laurel sulfate (SLS), copper sulfate, copper chloride, potassium chloride, and sodium chloride. Organism responses are tracked with control charts for each reference toxicant/organism combination. The data are examined for sensitivity trends and to determine if results are within EPA described limits.

ACUTE REFERENCE TOXICANT TEST RESULTS

| | |
|--------------------------------|-----------------------------------|
| DILUTION WATER: | Standard Synthetic Freshwater |
| CHEMICAL: | Sodium Chloride |
| DURATION: | 48 Hour Acute |
| TEST NUMBER: | 257 |
| PROJECT NUMBER: | 54180 |
| START DATE: | 6/24/2013 |
| START TIME: | 15:15 |
| TOTAL NUMBER EXPOSED: | 40 organisms per concentration |
| CONCENTRATIONS (mg/L): | CON 250 500 1000 2000 3000 4000 |
| NUMBER DEAD PER CONCENTRATION: | 0 0 0 0 0 26 40 |
| TEST METHODS: | As listed in EPA-821-R-02-012 |
| STATISTICAL METHODS: | SURVIVAL: Trimmed Spearman-Kärber |
| LC50: | 3068.39 mg/L |
| 95% LOWER CONFIDENCE LIMITS: | 2912.11 mg/L |
| 95% UPPER CONFIDENCE LIMITS: | 3233.05 mg/L |

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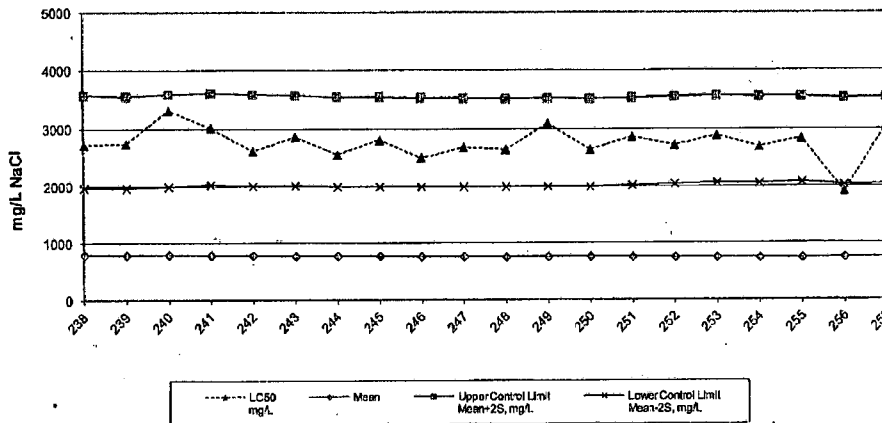
620684 CoC Print Group 002 of 003

Bio-Aquatic Testing, Inc.

**REFERENCE TOXICANT STATISTICAL RESULTS: LC₅₀ AND CONTROL LIMITS
Daphnia pulex EXPOSED TO SODIUM CHLORIDE, 48 HOUR STATIC RENEWAL**

| Test Number | Date | Project Number | Toxicant Lot Number | Statistical Method | LC ₅₀ mg/L | Mean | Twice Standard Deviation 2S | Upper Control Limit Mean+2S, mg/L | Lower Control Limit Mean-2S, mg/L |
|-------------|------------|----------------|---------------------|-------------------------|-----------------------|--------|-----------------------------|-----------------------------------|-----------------------------------|
| 238 | 11/8/2011 | 49503 | 023007 | Trimmed Spearman-Kärber | 2726.7 | 2777.2 | 789.3 | 3576.5 | 1978.0 |
| 239 | 11/29/2011 | 48797 | 023007 | Trimmed Spearman-Kärber | 2741.5 | 2786.0 | 781.7 | 3567.7 | 1974.2 |
| 240 | 12/27/2011 | 50692 | 023007 | Trimmed Spearman-Kärber | 3317.2 | 2797.6 | 786.0 | 3583.6 | 2001.6 |
| 241 | 1/18/2012 | 50765 | 023007 | Trimmed Spearman-Kärber | 3016.7 | 2822.9 | 781.2 | 3614.1 | 2031.8 |
| 242 | 2/22/2012 | 50855 | 023007 | Trimmed Spearman-Kärber | 2825.3 | 2801.6 | 790.1 | 3591.7 | 2011.5 |
| 243 | 3/28/2012 | 50950 | 023007 | Trimmed Spearman-Kärber | 2871.6 | 2797.4 | 776.9 | 3574.2 | 2020.5 |
| 244 | 4/24/2012 | 51028 | 023007 | Trimmed Spearman-Kärber | 2557.9 | 2771.7 | 775.0 | 3546.7 | 1996.7 |
| 245 | 5/29/2012 | 51138 | 023007 | Trimmed Spearman-Kärber | 2813.7 | 2773.9 | 772.6 | 3546.5 | 2001.4 |
| 246 | 6/26/2012 | 51226 | 134905 | Trimmed Spearman-Kärber | 2506.6 | 2768.5 | 766.1 | 3534.6 | 2002.4 |
| 247 | 7/31/2012 | 51361 | 134905 | Trimmed Spearman-Kärber | 2686.5 | 2761.2 | 763.6 | 3524.8 | 1997.5 |
| 248 | 8/28/2012 | 51424 | 134905 | Trimmed Spearman-Kärber | 2848.1 | 2756.5 | 767.3 | 3513.8 | 1999.2 |
| 249 | 9/25/2012 | 51610 | 134905 | Trimmed Spearman-Kärber | 3095.1 | 2764.8 | 759.3 | 3524.0 | 2005.5 |
| 250 | 11/27/2012 | 52179 | 134905 | Trimmed Spearman-Kärber | 2644.3 | 2759.3 | 758.5 | 3517.8 | 2000.8 |
| 251 | 12/27/2012 | 53579 | 134905 | Trimmed Spearman-Kärber | 2862.9 | 2778.1 | 757.8 | 3535.8 | 2020.3 |
| 252 | 1/30/2013 | 53775 | 134905 | Trimmed Spearman-Kärber | 2717.9 | 2789.1 | 751.7 | 3550.8 | 2047.3 |
| 253 | 2/27/2013 | 53841 | 221401 | Trimmed Spearman-Kärber | 2887.8 | 2818.8 | 748.3 | 3568.1 | 2069.6 |
| 254 | 3/26/2013 | 53920 | 221401 | Trimmed Spearman-Kärber | 2694.4 | 2808.9 | 745.5 | 3554.4 | 2063.4 |
| 255 | 5/3/2013 | 54051 | 221401 | Trimmed Spearman-Kärber | 2838.2 | 2818.6 | 737.2 | 3555.8 | 2081.4 |
| 256 | 5/28/2013 | 54110 | 221401 | Trimmed Spearman-Kärber | 1913.0 | 2783.1 | 750.3 | 3533.3 | 2032.8 |
| 257 | 6/24/2013 | 54180 | 221401 | Trimmed Spearman-Kärber | 3068.4 | 2792.4 | 747.7 | 3540.2 | 2044.7 |

Daphnia pulex Acute Control Chart



Appendix B*Pimephales promelas***BIO-AQUATIC TESTING, INC.**

Carrollton, TX

REFERENCE TOXICANTS

Bio-Aquatic Testing conducts reference toxicant testing monthly for organisms cultured in-house. For studies requiring purchased organisms, reference toxicant testing is performed simultaneously. Reference toxicant testing validates data and measures organism consistency. Only reagent grade chemicals are used of the following choices: sodium laurel sulfate (SLS), copper sulfate, copper chloride, potassium chloride, and sodium chloride. Organism responses are tracked with control charts for each reference toxicant/organism combination. The data are examined for sensitivity trends and to determine if results are within EPA described limits.

ACUTE REFERENCE TOXICANT TEST RESULTS

| | |
|--------------------------------|-------------------------------------|
| DILUTION WATER: | Standard Synthetic Freshwater |
| CHEMICAL: | Sodium Chloride |
| DURATION: | 48 Hour Acute |
| TEST NUMBER: | 257 |
| PROJECT NUMBER: | 54198 |
| START DATE: | 6/25/2013 |
| START TIME: | 17:30 |
| TOTAL NUMBER EXPOSED: | 40 organisms per concentration |
| CONCENTRATIONS (mg/L): | CON 2000 4000 6000 8000 10000 12000 |
| NUMBER DEAD PER CONCENTRATION: | 0 0 0 0 1 26 40 |
| TEST METHODS: | As listed in EPA-821-R-02-012 |
| STATISTICAL METHODS: | SURVIVAL: Trimmed Spearman-Kärber |
| LC50: | 9540.87 mg/L |
| 95% LOWER CONFIDENCE LIMITS: | 9230.45 mg/L |
| 95% UPPER CONFIDENCE LIMITS: | 9861.72 mg/L |

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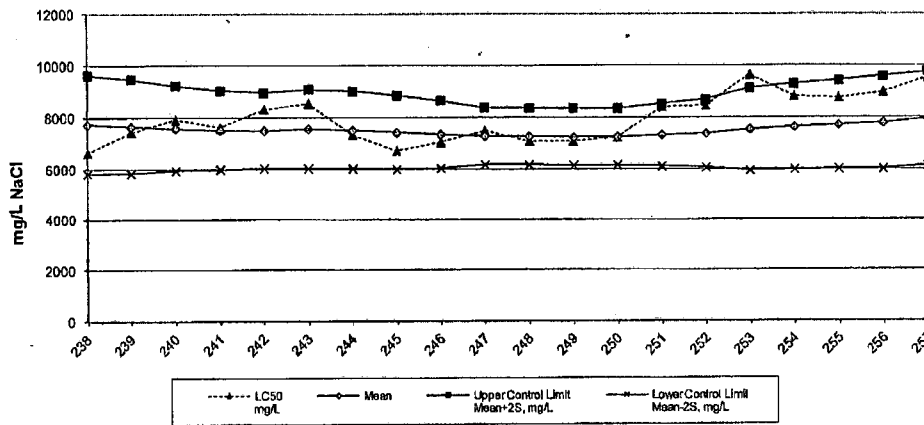
620684 CoC Print Group 002 of 003

Bio-Aquatic Testing, Inc.

REFERENCE TOXICANT STATISTICAL RESULTS: LC₅₀ AND CONTROL LIMITS
Pimephales promelas EXPOSED TO SODIUM CHLORIDE, 48 HOUR STATIC RENEWAL

| Test Number | Date | Project Number | Toxicant Lot Number | Statistical Method | LC ₅₀ mg/L | Mean | Twice Standard Deviation 2S | Upper Control Limit Mean+2S, mg/L | Lower Control Limit Mean-2S, mg/L |
|-------------|------------|----------------|---------------------|-------------------------|-----------------------|--------|-----------------------------|-----------------------------------|-----------------------------------|
| 238 | 11/28/2011 | 49800 | 023007 | Trimmed Spearman-Kärber | 6652.4 | 7732.7 | 1906.3 | 9639.0 | 5826.4 |
| 239 | 12/28/2011 | 50893 | 023007 | Trimmed Spearman-Kärber | 7435.6 | 7657.2 | 1821.9 | 9479.2 | 5835.3 |
| 240 | 1/18/2012 | 50766 | 023007 | Trimmed Spearman-Kärber | 7918.8 | 7585.2 | 1643.7 | 9228.8 | 5941.5 |
| 241 | 2/23/2012 | 50858 | 023007 | Trimmed Spearman-Kärber | 7625.5 | 7523.3 | 1530.3 | 9053.6 | 5993.0 |
| 242 | 3/28/2012 | 50853 | 023007 | Trimmed Spearman-Kärber | 8316.7 | 7500.3 | 1463.6 | 8963.9 | 6036.7 |
| 243 | 4/24/2012 | 51029 | 023007 | Trimmed Spearman-Kärber | 8542.0 | 7566.2 | 1528.5 | 9094.7 | 6037.7 |
| 244 | 5/29/2012 | 51139 | 023007 | Trimmed Spearman-Kärber | 7334.7 | 7522.2 | 1500.3 | 9022.4 | 6021.9 |
| 245 | 6/26/2012 | 51227 | 134905 | Trimmed Spearman-Kärber | 6732.0 | 7423.2 | 1429.4 | 8852.5 | 5993.8 |
| 246 | 7/31/2012 | 51362 | 134905 | Trimmed Spearman-Kärber | 7048.6 | 7343.2 | 1315.3 | 8658.6 | 6027.9 |
| 247 | 8/28/2012 | 51423 | 134905 | Trimmed Spearman-Kärber | 7498.9 | 7273.3 | 1098.3 | 8371.6 | 6175.0 |
| 248 | 9/25/2012 | 51611 | 134905 | Trimmed Spearman-Kärber | 7081.2 | 7260.6 | 1101.1 | 8361.8 | 6159.5 |
| 249 | 10/31/2012 | 51787 | 134905 | Trimmed Spearman-Kärber | 7082.2 | 7244.1 | 1101.4 | 8345.6 | 6142.7 |
| 250 | 11/28/2012 | 52178 | 134905 | Trimmed Spearman-Kärber | 7248.8 | 7253.6 | 1098.0 | 8351.6 | 6155.6 |
| 251 | 12/27/2012 | 53578 | 134905 | Trimmed Spearman-Kärber | 8411.5 | 7317.2 | 1211.6 | 8528.8 | 6105.6 |
| 252 | 1/30/2013 | 53774 | 134905 | Trimmed Spearman-Kärber | 8457.2 | 7379.0 | 1312.9 | 8691.9 | 6066.1 |
| 253 | 2/27/2013 | 53840 | 221401 | Trimmed Spearman-Kärber | 9652.3 | 7536.5 | 1595.5 | 9132.0 | 5940.9 |
| 254 | 3/28/2013 | 53919 | 221401 | Trimmed Spearman-Kärber | 8819.2 | 7633.7 | 1661.4 | 9295.0 | 5972.3 |
| 255 | 5/3/2013 | 54050 | 221401 | Trimmed Spearman-Kärber | 8761.3 | 7715.1 | 1716.7 | 9431.8 | 5998.3 |
| 256 | 5/28/2013 | 54109 | 221401 | Trimmed Spearman-Kärber | 8987.9 | 7798.7 | 1795.9 | 9594.8 | 6002.8 |
| 257 | 6/25/2013 | 54198 | 221402 | Trimmed Spearman-Kärber | 9540.9 | 7957.3 | 1824.1 | 9781.4 | 6133.2 |

Pimephales promelas Acute Control Chart



620684 CoC Print Group 002 of 003

APPENDIX C**LITERATURE REFERENCES**

- U.S.E.P.A., 2002. Short-Term Methods For Estimating The Chronic Toxicity Of Effluents And Receiving Water To Freshwater Organisms (Fifth Edition) U.S. Environmental Protection Agency, Office of Water, Washington D.C., EPA-821-R-02-012.
- U.S.E.P.A., 2002. Short-Term Methods For Estimating The Chronic Toxicity Of Effluents and Receiving Water To Marine And Estuarine Organisms (Third Edition) U.S. Environmental Protection Agency, Office of Water, Washington D.C., EPA-821-R-02-014.
- U.S.E.P.A., 2002. Short-Term Methods For Estimating The Chronic Toxicity Of Effluents And Receiving Water To Freshwater Organisms (Fourth Edition) U.S. Environmental Protection Agency, Office of Water, Washington D.C., EPA-821-R-02-013.
- U.S.E.P.A., 1991. Technical Support Document For Water Quality-Based Toxics Control, U.S. Environmental Protection Agency, EPA-505-2-90-001.
- Zarr, Jerrold, H., 1984. Biostatistical Analysis, (Second Edition). Prentice-Hall, Inc., Englewood Cliffs, N.J.

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7 of 10

620684 CoC Print Group 002 of 003

CHAIN-OF-CUSTODY SHEETS

Appendix D

59571



BIO-AQUATIC TESTING, INC.
 2501 MAYES RD., STE. 100
 CARROLLTON, TX 75006
 PH: 972-242-7750 FAX: 972-242-7749

CHAIN OF CUSTODY

Lab Id: 28407

Please Fill Out C-O-C by Completing Sections A, B, & C. P.O. No:

Client: Ana-Lab
 Facility: Cooper Tire & Rubber Co.
 Permit No: AR0038822
 Outfall: NPDES 001
 Client Contact: Brian Fincher
 Client Phone: 870-779-4260

A SCHEDULED TEST(S):

| | |
|-------------|---------------------|
| 48 Hr Acute | Daphnia pulex |
| 48 Hr Acute | Pimephales promelas |

To Ship the 1st Sample on: 7/16/13

Dilution Series: 32 42 56 75 100

Include Semi-annual 24hr Acute Test?

Check Sample No.: First, Second, or Third.

Check the type of test(s) required, if different from the Scheduled Test(s) in "A":

| C. dubia (water flea) | D. pulex (water flea) | D. magna (water flea) | P. promelas (minnow) | M. bahia (shrimp) | M. beryllina (minnow) |
|--|---|--|---|--|--|
| <input type="checkbox"/> Chronic <input type="checkbox"/> 96 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 24 Hour | <input type="checkbox"/> Chronic <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 48 Hour <input type="checkbox"/> 24 Hour | <input type="checkbox"/> Chronic <input type="checkbox"/> 96 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 24 Hour | <input type="checkbox"/> Chronic <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 48 Hour <input type="checkbox"/> 24 Hour | <input type="checkbox"/> Chronic <input type="checkbox"/> 96 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 24 Hour | <input type="checkbox"/> Chronic <input type="checkbox"/> 96 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 24 Hour |

Notes: 3rd Quarter Pulex
B. Monthly Fathead
Has Wet Limit
TRC = 0.00 mg/L

B

| Sample ID or Location: (Outfall No. or Name) | Sample Type: S = Effluent RS = Rec. Stream S = Sediment | Sample Date | | Sample Time (military) | | Grab or Composite | Sampled By: (Sign and Print Name) | Number Of Containers Shipped |
|---|--|----------------|----------------|------------------------|--------------|-------------------|--------------------------------------|------------------------------|
| | | From | To | From | To | | | |
| 1 <u>Outfall pool</u> | <u>E</u> | <u>7/15/13</u> | <u>7/16/13</u> | <u>11:45</u> | <u>11:30</u> | <u>Comp</u> | <u>Brian Fincher</u> | <u>1</u> |
| 2 | | | | | | | | |
| 3 | | | | | | | | |

C

| Relinquished By: | Date | Time | Received By: | Date | Time |
|----------------------|----------------|--------------|--------------------|----------------|-------------|
| <u>Brian Fincher</u> | <u>7/16/13</u> | <u>13:45</u> | <u>[Signature]</u> | <u>7-17-13</u> | <u>0845</u> |
| 2 | | | | | |
| 3 | | | | | |

Bio-Aquatic Sample Login

BAT sample personnel: Yes No

Check for Ammonia: Yes No

Dechlorinate Sample: Yes No

Dilution Water: Receiving Stream Synthetic Lab

Date: 7.17 Time: 0919 By: [Signature]

Temperature: 39 (C) Int. Salinity: ppt Adj. Salinity: ppt

Chlorine: 10.1 mg/l Ammonia: 0.25 Other:

pH: 6.9 DO: 6.3 mg/l Condition: Good

Report Date: 07/25/2013 Revision: 0

18 of 22

Bio-Aquatic Lab ID: 51571

620684 Coc Print Group 002 of 003

8 of 10



BIO-AQUATIC TESTING, INC.
 2501 MAYES RD., STE. 100
 CARROLLTON, TX 75006
 PH: 972-242-7750 FAX: 972-242-7749

CHAIN OF CUSTODY

Lab Id 38407

Please Fill Out C-O-C by Completing Sections A, B, & C. P.O. No:

Client: Ana-Lab
 Facility: Cooper Tire & Rubber Co.
 Permit No: AR0038822
 Outfall: NPDES 001
 Client Contact: Brian Fischer
 Client Phone: 870-779-4260

Check Sample No. : First, Second, or Third.

Check the type of test(s) required, if different from the Scheduled Test(s) in "A".

SCHEDULED TEST(s):

| | |
|-------------|----------------------------|
| 48 Hr Acute | <u>Daphnia pulex</u> |
| 48 Hr Acute | <u>Pimephales promelas</u> |

| C. dubia (water flea) | D. pulex (water flea) | D. magna (water flea) | P. promelas (minnow) | M. bahia (shrimp) | M. beryllina (minnow) | |
|--|---|--|---|--|--|--|
| <input type="checkbox"/> Chronic <input type="checkbox"/> 96 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 24 Hour | <input type="checkbox"/> Chronic <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 48 Hour <input type="checkbox"/> 24 Hour | <input type="checkbox"/> Chronic <input type="checkbox"/> 96 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 24 Hour | <input type="checkbox"/> Chronic <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 48 Hour <input type="checkbox"/> 24 Hour | <input type="checkbox"/> Chronic <input type="checkbox"/> 96 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 24 Hour | <input type="checkbox"/> Chronic <input type="checkbox"/> 96 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 24 Hour | <input type="checkbox"/> Chronic <input type="checkbox"/> 96 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 24 Hour |

To Ship the 1st Sample on: 7/16/13

Notes: 3rd Quarter Pulex
Bi-Monthly Foothead
Has Wet Limit TRC = 0.01

| Sample ID or Location: (Outfall No. or Name) | Sample Type: E = Effluent RS = Rec. Stream S = Sediment | Sample Date | | Sample Time (military) | | Grab or Composite | Sampled By: (Sign and Print Name) | Number of Containers Shipped |
|---|--|----------------|----------------|------------------------|-------------|-------------------|--------------------------------------|------------------------------|
| | | From | To | From | To | | | |
| 1 <u>outfall 001</u> | <u>E</u> | <u>7/16/13</u> | <u>7/17/13</u> | <u>1200</u> | <u>1130</u> | <u>Comp.</u> | | <u>1</u> |
| 2 | | | | | | | | |
| 3 | | | | | | | | |

| Relinquished By: | Date | Time | Received By: | Date | Time |
|------------------|------|------|--------------|------|------|
| | | | | | |
| 2 | | | | | |
| 3 | | | | | |

Bio-Aquatic Sample Login

BAT sample personnel: Yes No Date: 7/18 Time: 1100 By: [Signature]

Method of Shipment:
 GRYHND PX Client Delivered
 UPS Bio-Pick Up
 FEDEX Other:

Check for Ammonia: Yes No Temperature: 3.6 (C) Int. Salinity: ppt Adj. Salinity: ppt

Dechlorinate Sample: Yes No Chlorine: 10.1 mg/l Ammonia: 6.28 Other: [Signature]

Dilution Water: Receiving Stream pH: 7.4 DO: 8.3 mg/l Condition: [Signature]
 Synthetic Lab

Report Date: 07/26/2013 Revision: 0

18 of 22

Bio-Aquatic Lab ID: 51571

51571 RB

620684 Coc Print Group 002 of 003

9 of 10

1
2
3
4
5
6
7

10 of 10

620684 CoC Print Group 002 of 003

REGULATORY AGENCY TABLES

Appendix E

1
2
3
4
5
6
7

1 of 2

620684 CoC Print Group 003 of 003

Table 1 (Sheet 1 of 2)
BIOMONITORING REPORT

Daphnia pulex SURVIVAL TEST

Permittee: Ana-Lab - Cooper Tire & Rubber Co.
Permit No.: AR0038822
Outfall No.: NPDES 001

Dates and times FROM: 7/15/2013 @ 11:45 TO: 7/16/2013 @ 11:30
Composites were collected: FROM: 7/16/2013 @ 12:00 TO: 7/17/2013 @ 11:50

Test Initiation: Time: 11:40 Date: 7/17/2013

Dilution Water Used: Receiving Water Synthetic Dilution Water

DATA TABLE FOR SURVIVAL OF *Daphnia pulex*

| TIME | REPLICATE | EFFLUENT CONCENTRATION (%) | | | | | |
|-------------------|-----------|----------------------------|------|------|------|------|-------|
| | | 0% | 32 % | 42 % | 56 % | 75 % | 100 % |
| 24 HOUR | A | 100 | 100 | 100 | 100 | 100 | 100 |
| | B | 100 | 100 | 100 | 100 | 100 | 100 |
| | C | 100 | 100 | 100 | 100 | 100 | 100 |
| | D | 100 | 100 | 100 | 100 | 100 | 100 |
| | E | 100 | 100 | 100 | 100 | 100 | 100 |
| 48 HOUR | A | 100 | 100 | 100 | 100 | 100 | 75 |
| | B | 100 | 100 | 100 | 100 | 87.5 | 62.5 |
| | C | 100 | 100 | 100 | 100 | 100 | 75 |
| | D | 100 | 100 | 100 | 100 | 100 | 50 |
| | E | 100 | 100 | 100 | 100 | 100 | 62.5 |
| MEAN | | 100 | 100 | 100 | 100 | 97.5 | 65 |
| CV % ¹ | | 0.00 | 0.00 | 0.00 | 0.00 | 5.73 | 16.09 |

¹ Coefficient of Variation = (standard deviation/mean) x 100

?= cannot be calculated due to 100% mortality or lab exception

DUNNETT'S PROCEDURE OR STEEL'S MANY-ONE RANK TEST (as appropriate for Lethality)

Is the mean survival at 48 hours significantly different (p=0.05) than the control's survival for the low flow or critical dilution?

CRITICAL DILUTION (100 %): X YES NO

If you report NO, enter a '0' on the DMR form for Parameter No. TEM3D, other wise enter a '1'.

Enter the percent effluent corresponding to each NOEC below:

NOEC SURVIVAL: 75 % Effluent (Parameter TOM3D)

LOEC SURVIVAL: 100 % Effluent (Parameter TXM3D)

Q* refers to a value that is not calculable

Prepared by: Diana Blake

Approved by: Chi Robison

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2 of 2

620684 CoC Print Group 003 of 003

Table 1 (Sheet 2 of 2)
BIOMONITORING REPORT

Pimephales promelas SURVIVAL TEST

Permittee: Ana-Lab - Cooper Tire & Rubber Co.
Permit No.: AR0038822
Outfall No.: NPDES 001

Dates and times FROM: 7/15/2013 @ 11:45 TO: 7/16/2013 @ 11:30
Composites were collected: FROM: 7/16/2013 @ 12:00 TO: 7/17/2013 @ 11:50

Test Initiation: Time: 15:30 Date: 7/17/2013

Dilution Water Used: Receiving Water Synthetic Dilution Water

DATA TABLE FOR SURVIVAL OF *Pimephales promelas*

| TIME | REPLICATE | EFFLUENT CONCENTRATION (%) | | | | | |
|-------------------|-----------|----------------------------|------|------|------|-------|-------|
| | | 0% | 32 % | 42 % | 56 % | 75 % | 100 % |
| 24 HOUR | A | 100 | 100 | 100 | 87.5 | 100 | 100 |
| | B | 100 | 100 | 100 | 100 | 100 | 100 |
| | C | 100 | 100 | 100 | 100 | 100 | 100 |
| | D | 100 | 100 | 100 | 100 | 100 | 100 |
| | E | 100 | 100 | 100 | 100 | 100 | 100 |
| 48 HOUR | A | 100 | 100 | 100 | 87.5 | 87.5 | 87.5 |
| | B | 100 | 100 | 100 | 87.5 | 87.5 | 75 |
| | C | 100 | 87.5 | 100 | 100 | 87.5 | 62.5 |
| | D | 100 | 100 | 100 | 100 | 100 | 37.5 |
| | E | 100 | 100 | 100 | 87.5 | 62.5 | 50 |
| MEAN | | 100 | 97.5 | 100 | 92.5 | 85 | 62.5 |
| CV % ¹ | | 0.00 | 5.73 | 0.00 | 7.40 | 16.11 | 31.62 |

¹ Coefficient of Variation = (standard deviation/mean) x 100

?= cannot be calculated due to 100% mortality or lab exception

DUNNETT'S PROCEDURE OR STEEL'S MANY-ONE RANK TEST (as appropriate for Lethality)
Is the mean survival at 48 hours significantly different (p=0.05) than the control's survival for the low flow or critical dilution?

CRITICAL DILUTION (100 %): X YES NO

If you report NO, enter a '0' on the DMR form for Parameter No. TEM6C, other wise enter a '1':

Enter the percent effluent corresponding to each NOEC below:

NOEC SURVIVAL: 75 % Effluent (Parameter TOM6C)
LOEC SURVIVAL: 100 % Effluent (Parameter TXM6C)

* refers to a value that is not calculable

Prepared by: Duanna Blake

Approved by: Chi Robinson



Report

Report To

David Sams
Cooper Tire
Environmental Mgr.
3500 E. Washington Rd.
Texarkana, AR 71854-

Table of Contents

Account

CTR2 -L

Project

619060

NPDES 001

This report consists of this Table of Contents and the following pages:

| <u>Report Name</u> | <u>Description</u> | <u>Pages</u> |
|------------------------------|--|--------------|
| 619060_r03_03_ProjectResults | Ana-Lab Project P:619060 C:CTR2 Project Results | 3 |
| 619060_r10_05_ProjectQC | Ana-Lab Project P:619060 C:CTR2 Project Quality Control Groups | 3 |
| 619060_r99_09_CoC__1_of_1 | Ana-Lab CoC CTR2 619060_1_of_1 | 1 |
| Total Pages: | | 7 |

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662



NELAP-accredited #T104704201



Results

Client: CTR2

Project: 619060

NPDES 001

Account
CTR2-L

Project
619060

Report To

David Sams
Cooper Tire
Environmental Mgr.
3500 E. Washington Rd.
Texarkana, AR 71854-

Results

| Parameter | Results | Units | RL | Flags | CAS | Bottle |
|----------------------------|----------------------|-------|--------------------------|-------|------------------|----------------------|
| 1224583 Outfall 001 | | | | | | Received: 07/17/2013 |
| Liquid Aqueous | Collected by: Client | | Affiliation: Cooper Tire | | 07/15/2013 | 11:38:00 |
| Prepared: 530016 | | | 07/23/2013 | | 15:00:00 | |
| EPA 1664B | | | Analyzed: BAA 07/23/2013 | | 15:00:00 QCgroup | 530016 |
| N Oil and Grease (HEM) | ND | mg/L | 4.40 | | | 02 |
| Prepared: 529324 | | | 07/18/2013 | | 09:15:00 | |
| EPA 200.8 5.4 | | | Analyzed: WOB 07/18/2013 | | 20:39:40 QCgroup | 529520 |
| N Zinc | 0.716 | mg/L | 0.005 | | 7440-66-6 | 04 |

The above methods that we used are approved for NPDES reporting as listed in 40 CFR 136 Table 1B or Ana-Lab has specific approval from EPA to use these methods for NPDES reporting.

| | | | | | | |
|------------------------------------|----------------------|------|--------------------------|---|------------------|----------------------|
| 1224584 Outfall 001 | | | | | | Received: 07/17/2013 |
| Liquid Aqueous | Collected by: Client | | Affiliation: Cooper Tire | | 07/16/2013 | 08:45:00 |
| Prepared: 530483 | | | 07/24/2013 | | 13:03:51 | |
| SM 2540 D-97 | | | Analyzed: RAH 07/25/2013 | | 13:49:00 QCgroup | 530483 |
| N Total Suspended Solids | 6.15 | mg/L | 3.08 | C | | 01 |
| Prepared: 529287 | | | 07/18/2013 | | 05:33:00 | |
| SM 5210 B-97 | | | Analyzed: MKC 07/23/2013 | | 09:58:15 QCgroup | 529287 |
| N Biochemical Oxygen Demand (BOD5) | 13.7 | mg/L | 2.00 | B | 1026-3 | 01 |

The above methods that we used are approved for NPDES reporting as listed in 40 CFR 136 Table 1B or Ana-Lab has specific approval from EPA to use these methods for NPDES reporting.

Sample Preparation

| | | | | | | |
|----------------------------|-------------------------------|----|---------|--|------------------|----------------------|
| 1224583 Outfall 001 | | | | | | Received: 07/17/2013 |
| Prepared: 07/17/2013 | | | | | 00:00:00 | |
| z | Bottle pH | <2 | SU | | 00:00:00 QCgroup | 03 |
| | Bottle Temperature on Receipt | <1 | degrees | | | 01 |
| | Bottle Temperature on Receipt | <1 | degrees | | | 02 |
| | Bottle Temperature on Receipt | <1 | degrees | | | 03 |





Results

Client: CTR2

Project: 619060

Sample Preparation

1224583 Outfall 001

Received: 07/17/2013

| | | | | | | |
|---------------------------|-----------|--------|---------------|------------|----------|----------------|
| | Prepared: | 529324 | 07/18/2013 | 09:15:00 | | |
| EPA 200.2.2.8 | | | Analyzed: TES | 07/18/2013 | 09:15:00 | QCgroup 529324 |
| N Liquid Metals Digestion | | 50/50 | | ml | | 03 |

1224584 Outfall 001

Received: 07/17/2013

| | | | | | | |
|-------------------------------|-----------|----|---------------|------------|----------|---------|
| | Prepared: | | 07/17/2013 | 00:00:00 | | |
| | | | Analyzed: GDG | 07/17/2013 | 00:00:00 | QCgroup |
| z Bottle pH | | 6 | | SU | | 01 |
| Bottle Temperature on Receipt | | <1 | | degrees | | 01 |

| | | | | | | |
|---------------------|-----------|---------|---------------|------------|----------|----------------|
| | Prepared: | 529372 | 07/18/2013 | 11:41:26 | | |
| SM 2540 D, 20th Ed. | | | Analyzed: RAH | 07/18/2013 | 11:41:26 | QCgroup 529372 |
| N TSS Set Started | | Started | | | | |

| | | | | | | |
|---------------------|-----------|---------|---------------|------------|----------|----------------|
| | Prepared: | 530209 | 07/24/2013 | 13:03:51 | | |
| SM 2540 D, 20th Ed. | | | Analyzed: RAH | 07/24/2013 | 13:03:51 | QCgroup 530209 |
| N TSS Set Started | | Started | | | | |

| | | | | | | |
|-------------------|-----------|---------|---------------|------------|----------|----------------|
| | Prepared: | 529287 | 07/18/2013 | 05:33:00 | | |
| SM 5210 B-97 | | | Analyzed: MKC | 07/18/2013 | 05:33:00 | QCgroup 529287 |
| N BOD Set Started | | Started | | | | |

Qualifiers:

B - Analyte detected in the associated method blank C - Confirmed value

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commission on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365. The Accredited column designates accreditation by N-- NELAC, or z -- not covered under NELAC scope of accreditation.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAC.

RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number.

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

Ark-La-Miss Region: 3100 Knight Street #2 Shreveport LA 71105



NELAP-accredited #T104704201



Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com

Employee Owned Integrity Caring Continual Improvement

Printed: 07/26/2013

Page 3 of 3

Results

Client: CTR2

Project: 619060

C. H. Whiteside, Ph.D., President



Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

Ark-La-Miss Region: 3100 Knight Street #2 Shreveport LA 71105



NELAP-accredited #T104704201



Quality Control

Report To

David Sams
Cooper Tire
Environmental Mgr.
3500 E. Washington Rd.
Texarkana, AR 71854

NPDES 001

Account
CTR2 -L

Project
619060

529520 M Liquid Aqueous EPA 200.854

Blank

| Parameter | PrepSet | Reading | MDL | MQL | Units | File |
|-----------|---------|---------|---------|-------|-------|-----------|
| Zinc | 529324 | ND | 0.00123 | 0.005 | mg/L | 113618363 |

CCV

| Parameter | Reading | Known | Units | Recover% | Limits% | Out | File |
|-----------|---------|-------|-------|----------|------------|-----|-----------|
| Zinc | 0.0507 | 0.05 | mg/L | 101 | 90.0 - 110 | | 113618338 |
| Zinc | 0.0495 | 0.05 | mg/L | 99.0 | 90.0 - 110 | | 113618351 |
| Zinc | 0.0502 | 0.05 | mg/L | 100 | 90.0 - 110 | | 113618356 |
| Zinc | 0.050 | 0.05 | mg/L | 100 | 90.0 - 110 | | 113618366 |
| Zinc | 0.0495 | 0.05 | mg/L | 99.0 | 90.0 - 110 | | 113618377 |
| Zinc | 0.0505 | 0.05 | mg/L | 101 | 90.0 - 110 | | 113618388 |

ICV

| Parameter | Reading | Known | Units | Recover% | Limits% | Out | File |
|-----------|---------|-------|-------|----------|------------|-----|-----------|
| Zinc | 0.0484 | 0.05 | mg/L | 96.8 | 90.0 - 110 | | 113618337 |

LCS

| Parameter | PrepSet | Reading | Known | Units | Recover% | Limits | File | Out |
|-----------|---------|---------|-------|-------|----------|------------|-----------|-----|
| Zinc | 529324 | 0.483 | 0.500 | mg/L | 96.6 | 85.0 - 115 | 113618364 | |

LCS Dup

| Parameter | PrepSet | LCS | LCSD | Known | Limits% | LCS% | LCSD% | Units | RPD | Limit% |
|-----------|---------|-------|-------|-------|------------|------|-------|-------|------|--------|
| Zinc | 529324 | 0.483 | 0.495 | 0.500 | 85.0 - 115 | 96.6 | 98.9 | mg/L | 2.45 | 20.0 |

MS

| Parameter | Sample | MS | MSD | UNK | Known | Limits | MS% | MSD% | Units | RPD | Limit% |
|-----------|---------|-------|-----|---------|-------|------------|------|------|-------|-----|--------|
| Zinc | 1224540 | 2.20 | 0 | 1.81 | 0.500 | 70.0 - 130 | 78.0 | | mg/L | | 20.0 |
| Zinc | 1224605 | 0.489 | 0 | 0.00339 | 0.500 | 70.0 - 130 | 97.1 | | mg/L | | 20.0 |

MSD

| Parameter | Sample | MS | MSD | UNK | Known | Limits | MS% | MSD% | Units | RPD | Limit% |
|-----------|---------|-------|-------|---------|-------|------------|------|------|-------|------|--------|
| Zinc | 1224540 | 2.20 | 2.25 | 1.81 | 0.500 | 70.0 - 130 | 78.0 | 88.0 | mg/L | 12.0 | 20.0 |
| Zinc | 1224605 | 0.489 | 0.494 | 0.00339 | 0.500 | 70.0 - 130 | 97.1 | 98.1 | mg/L | 1.02 | 20.0 |

529287 W Liquid Aqueous SM 5210B-97

Blank

| Parameter | PrepSet | Reading | MDL | MQL | Units | File |
|----------------------------------|---------|---------|-------|-------|-------|-----------|
| Biochemical Oxygen Demand (BOD5) | 529287 | 1.21 | 0.200 | 0.500 | mg/L | 113613335 |
| Biochemical Oxygen Demand (BOD5) | 529287 | 1.49 | 0.200 | 0.500 | mg/L | 113613382 |





Quality Control

529287

W Liquid Aqueous

SM5210B-97

Blank

| Parameter | PrepSet | Reading | MDL | MQL | Units | File |
|----------------------------------|---------|---------|-------|-------|-------|-----------|
| Biochemical Oxygen Demand (BOD5) | 529287 | 1.34 | 0.200 | 0.500 | mg/L | 113613429 |
| Biochemical Oxygen Demand (BOD5) | 529287 | 1.14 | 0.200 | 0.500 | mg/L | 113614231 |

Duplicate

| Parameter | Sample | Type | Result | Unknown | Unit | RPD | Limit% |
|----------------------------------|---------|-----------|--------|---------|------|------|--------|
| Biochemical Oxygen Demand (BOD5) | 1220772 | Duplicate | 6.83 | 5.63 | mg/L | 19.3 | 20.0 |
| Biochemical Oxygen Demand (BOD5) | 1224415 | Duplicate | 7.19 | 5.91 | mg/L | 19.5 | 20.0 |
| Biochemical Oxygen Demand (BOD5) | 1224476 | Duplicate | 218 | 177 | mg/L | 20.8 | 20.0 |
| Biochemical Oxygen Demand (BOD5) | 1224587 | Duplicate | 2.85 | 5.49 | mg/L | 0 | 20.0 |
| Biochemical Oxygen Demand (BOD5) | 1224668 | Duplicate | 11.4 | 10.7 | mg/L | 6.33 | 20.0 |
| Biochemical Oxygen Demand (BOD5) | 1224713 | Duplicate | 22.3 | 31.5 | mg/L | 34.2 | 20.0 |
| Biochemical Oxygen Demand (BOD5) | 1224805 | Duplicate | 20.6 | 20.6 | mg/L | 0 | 20.0 |

Seed Drop

| Parameter | PrepSet | Reading | MDL | MQL | Units | Out | File |
|----------------------------------|---------|---------|-------|-------|-------|-----|-----------|
| Biochemical Oxygen Demand (BOD5) | 529287 | 0.983 | 0.200 | 0.500 | mg/L | | 113613336 |
| Biochemical Oxygen Demand (BOD5) | 529287 | 1.08 | 0.200 | 0.500 | mg/L | | 113613383 |
| Biochemical Oxygen Demand (BOD5) | 529287 | 1.19 | 0.200 | 0.500 | mg/L | | 113613430 |
| Biochemical Oxygen Demand (BOD5) | 529287 | 0.740 | 0.200 | 0.500 | mg/L | | 113614232 |

Standard

| Parameter | Sample | Reading | Known | Units | Recover% | Limits% | Out | File |
|----------------------------------|--------|---------|-------|-------|----------|------------|-----|-----------|
| Biochemical Oxygen Demand (BOD5) | | 233 | 198 | mg/L | 118 | 83.7 - 116 | * | 113613337 |
| Biochemical Oxygen Demand (BOD5) | | 221 | 198 | mg/L | 112 | 83.7 - 116 | | 113613384 |
| Biochemical Oxygen Demand (BOD5) | | 225 | 198 | mg/L | 114 | 83.7 - 116 | | 113613431 |
| Biochemical Oxygen Demand (BOD5) | | 255 | 198 | mg/L | 129 | 83.7 - 116 | * | 113614233 |

530016

W Liquid Aqueous

EPA 1664B

Blank

| Parameter | PrepSet | Reading | MDL | MQL | Units | File |
|----------------------|---------|---------|-------|------|-------|-----------|
| Oil and Grease (HEM) | 530016 | ND | 0.804 | 4.00 | mg/L | 113628503 |

ControlBlk

| Parameter | PrepSet | Reading | MDL | MQL | Units | File |
|----------------------|---------|---------|-----|-----|-------|-----------|
| Oil and Grease (HEM) | 530016 | -0.0001 | | | grams | 113628527 |





Quality Control

530016 W Liquid Aqueous

EPA 1664B

LCS

| Parameter | PrepSet | Reading | Known | Units | Recover% | Limits | File | Out |
|----------------------|---------|---------|-------|-------|----------|------------|-----------|-----|
| Oil and Grease (HEM) | 530016 | 41.7 | 40.0 | mg/L | 104 | 78.0 - 114 | 113628504 | |

LCS Dup

| Parameter | PrepSet | LCS | LCSD | Known | Limits% | LCS% | LCSD% | Units | RPD | Limit% |
|----------------------|---------|------|------|-------|------------|------|-------|-------|------|--------|
| Oil and Grease (HEM) | 530016 | 41.7 | 40.0 | 40.0 | 78.0 - 114 | 104 | 100 | mg/L | 4.16 | 20.0 |

MS

| Parameter | Sample | MS | MSD | UNK | Known | Limits | MS% | MSD% | Units | RPD | Limit% |
|----------------------|---------|------|-----|-----|-------|------------|------|------|-------|-----|--------|
| Oil and Grease (HEM) | 1224696 | 36.8 | 0 | ND | 40.0 | 78.0 - 114 | 92.0 | | mg/L | | 20.0 |

530483 W Liquid Aqueous

SM 2540-D-97

Blank

| Parameter | PrepSet | Reading | MDL | MDL | Units | File |
|------------------------|---------|---------|------|------|-------|-----------|
| Total Suspended Solids | 530483 | ND | 2.00 | 2.00 | mg/L | 113639045 |
| Total Suspended Solids | 530483 | 2.00 | 2.00 | 2.00 | mg/L | 113639079 |

Duplicate

| Parameter | Sample | Type | Result | Unknown | Unit | RPD | Limit% |
|------------------------|---------|-----------|--------|---------|------|------|--------|
| Total Suspended Solids | 1224584 | Duplicate | 5.38 | 6.15 | mg/L | 13.4 | 20.0 |
| Total Suspended Solids | 1225982 | Duplicate | 9170 | 9800 | mg/L | 6.64 | 20.0 |
| Total Suspended Solids | 1226318 | Duplicate | 5200 | 5300 | mg/L | 1.90 | 20.0 |

LCS

| Parameter | PrepSet | Reading | Known | Units | Recover% | Limits | File | Out |
|------------------------|---------|---------|-------|-------|----------|------------|-----------|-----|
| Total Suspended Solids | 530483 | 50.0 | 50.0 | mg/L | 100 | 90.0 - 110 | 113639078 | |

Standard

| Parameter | Sample | Reading | Known | Units | Recover% | Limits% | Out | File |
|------------------------|--------|---------|-------|-------|----------|------------|-----|-----------|
| Total Suspended Solids | 131111 | 104 | 100 | mg/L | 104 | 90.0 - 110 | | 113639046 |

RPD is Relative Percent Difference $\text{abs}(r1-r2) / \text{mean}(r1,r2) * 100\%$

Recover% is Recovery Percent $\text{result} / \text{known} * 100\%$





Shipping:
2600 Dudley Rd
Kilgore, TX 75662
903.984.0551
www.ana-lab.com

Mailing:
P O Box 9000
Kilgore, TX 75663
Fax: 903.984.5914
e-mail: corp@ana-lab.com

Chain of Custody

Panhandle 806.355.3556 Oklahoma 405.590.2533 North Texas 972.837.9412 Central Texas 512.821.0045
Rio Grand Valley 956.831.6437 Louisiana 318.219.9300 Gulf Coast 281.333.9414



| | | | | | | | | | | | |
|--|----------------------|--|------------------------------|----------------------------|----------------------------------|--|----------------------------|--|--|-----------|--|
| Report To Brian Fincher | | Project Name/Location NPDES 001 | | | | Analysis Requested | | | | | |
| Company Name Cooper Tire + Rubber Co | | Billing Address (if different) | | | | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">D&G</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Zinc</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BOD</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TSS</div> </div> | | | | | |
| Address 3500 Washington | | | | | | | | | | | |
| City Texarkana State AR Zip 71854 | | City | | State | | | | | | Zip | |
| Phone 870-779-4260 Fax 870-779-4271 | | Phone | | Fax | | | | | | | |
| Sampler Signature [Signature] | | Printed Name Brian Fincher | | Affiliation CTR | | | | | | PO Number | |
| Lab Number Do Not Use | Field Identification | Date | Time | Matrix | # of Containers | Notes | | | | | |
| 1224583 | outfall 001 | 7/15/13 | 11:38 | W | 3 | K X | | | | | |
| 584 | outfall 001 | 7/14/13 | 8:45 | W | 1 | X X | | | | | |
| | | | | | | 005057 <input type="checkbox"/> CF | | | | | |
| | | | | | | 005112 <input type="checkbox"/> CF | | | | | |
| | | | | | | 003688 <input checked="" type="checkbox"/> CF 0.2 | | | | | |
| | | | | | | @ 7/17/13 1041 | | | | | |
| Date | Time | Relinquished by: | | Received by: | | <input type="checkbox"/> Wastewater <input type="checkbox"/> Drinking Water <input type="checkbox"/> SW846 <input type="checkbox"/> Samples Contam <input type="checkbox"/> HF <input checked="" type="checkbox"/> CN <input type="checkbox"/> S= <input type="checkbox"/> other## | | | | | |
| 7/17/13 | 1041 | Printed Name Brian Fincher | Signature [Signature] | Affiliation CTR | Printed Name Theresa Carr | Signature [Signature] | Affiliation Ana-Lab | | | | |
| 7/17/13 | 1430 | Printed Name Theresa Carr | Signature [Signature] | Affiliation Ana-Lab | Printed Name Theresa Carr | Signature [Signature] | Affiliation Ana-Lab | | | | |

Samples Received on Ice? Yes No Cooler/Sample Secure? Yes No
 Method of Shipment Bus FedEx Lone Star UPS Hand Delivered Airborne Other
 Tracking or Shipping Number _____ Requested TAT Routine 3 day 2 Day Next Day

Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.
 Sample analysis will be provided according to Ana-Lab's Standard Terms and Conditions of Agreement, available upon request and at www.ana-lab.com.
 Any other terms proposed by Client are deemed material alterations and are rejected unless expressly agreed to in writing by Ana-Lab.

619060 CoC Print Group 001 of 001



Report

Table of Contents

Report To

Sams/Fincher
Cooper Tire
Environmental Mgr.
3500 E. Washington Rd
Texarkana, AR 71854-

Account
CTR1 -L

Project
619870

NPDES 001

This report consists of this Table of Contents and the following pages:

| <u>Report Name</u> | <u>Description</u> | <u>Pages</u> |
|--------------------------------------|--|--------------|
| 619870_r03_03_ProjectResults_1226323 | Ana-Lab Project P:619870 C:CTR1 1226323 Outfall 001 | 2 |
| 619870_r10_05_ProjectQC | Ana-Lab Project P:619870 C:CTR1 Project Quality Control Groups | 1 |
| 619870_r99_09_CoC_1_of_1 | Ana-Lab CoC CTR1 619870_1_of_1 | 1 |
| Total Pages: | | 4 |

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662



NELAP-accredited #T104704201



Results

Client: CTR1

Project: 619870

NPDES 001

Account
CTR1-L

Project
619870

Report To

Sams/Fincher
Cooper Tire
Environmental Mgr.
3500 E. Washington Rd
Texarkana, AR 71854-

Results

| Parameter | Results | Units | RL | Flags | CAS | Bottle |
|----------------------------|----------------------|-------|--------------------------|-------|-----|----------------------|
| 1226323 Outfall 001 | | | | | | Received: 07/24/2013 |
| Liquid Aqueous | Collected by: Client | | Affiliation: Cooper Tire | | | 07/21/2013 11:45:00 |

Prepared: 530483 07/24/2013 13:03:51

SM 2540 D-97 Analyzed: RAH 07/25/2013 13:49:00 QCgroup 530483

N Total Suspended Solids 6.00 mg/L 2.00 01

The above methods that we used are approved for NPDES reporting as listed in 40 CFR 136 Table 1B or Ana-Lab has specific approval from EPA to use these methods for NPDES reporting.

Sample Preparation for Sample 1226323

| | | | | | | |
|-------------------------------|-----------|--------------------------|--|--|--|----------------------|
| 1226323 Outfall 001 | | | | | | Received: 07/24/2013 |
| | Prepared: | 07/24/2013 | | | | 00:00:00 |
| | | Analyzed: CCP 07/24/2013 | | | | 00:00:00 QCgroup |
| Bottle Temperature on Receipt | <1 | degrees | | | | 01 |

Prepared: 530209 07/24/2013 13:03:51

SM 2540 D, 20th Ed. Analyzed: RAH 07/24/2013 13:03:51 QCgroup 530209

N TSS Set Started Started





Results

Client: CTR1

Project: 619870

Qualifiers:

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commission on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365. The Accredited column designates accreditation by N-- NELAC, or z-- not covered under NELAC scope of accreditation.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAC.

RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number.

C. H. Whiteside, Ph.D., President





Quality Control

Report To

Sams/Fincher
Cooper Tire
Environmental Mgr.
3500 E. Washington Rd
Texarkana, AR 71854-

NPDES 001

Account
CTR1 -L

Project
619870

530483 W Liquid Aqueous **SMI2540D-97**

Blank

| Parameter | PrepSet | Reading | MDL | MQL | Units | File |
|------------------------|---------|---------|------|------|-------|-----------|
| Total Suspended Solids | 530483 | ND | 2.00 | 2.00 | mg/L | 113639045 |
| Total Suspended Solids | 530483 | 2.00 | 2.00 | 2.00 | mg/L | 113639079 |

Duplicate

| Parameter | Sample | Type | Result | Unknown | Unit | RPD | Limit% |
|------------------------|---------|-----------|--------|---------|------|------|--------|
| Total Suspended Solids | 1224584 | Duplicate | 5.38 | 6.15 | mg/L | 13.4 | 20.0 |
| Total Suspended Solids | 1225982 | Duplicate | 9170 | 9800 | mg/L | 6.64 | 20.0 |
| Total Suspended Solids | 1226318 | Duplicate | 5200 | 5300 | mg/L | 1.90 | 20.0 |

LCS

| Parameter | PrepSet | Reading | Known | Units | Recover% | Limits | File | Out |
|------------------------|---------|---------|-------|-------|----------|------------|-----------|-----|
| Total Suspended Solids | 530483 | 50.0 | 50.0 | mg/L | 100 | 90.0 - 110 | 113639078 | |

Standard

| Parameter | Sample | Reading | Known | Units | Recover% | Limits% | Out | File |
|------------------------|--------|---------|-------|-------|----------|------------|-----|-----------|
| Total Suspended Solids | 131111 | 104 | 100 | mg/L | 104 | 90.0 - 110 | | 113639046 |

RPD is Relative Percent Difference $\text{abs}(r1-r2) / \text{mean}(r1,r2) * 100\%$

Recover% is Recovery Percent $\text{result} / \text{known} * 100\%$





COOPER TIRE & RUBBER COMPANY
3500 Washington Road • Texarkana, AR 71854

CERTIFIED MAIL™



7011 2970 0001 7194 1446



02 1M \$ 08.24⁰
0008006971 APR 21 2014
MAILED FROM ZIP CODE 75501

Arkansas Dept. of Environmental Quality
Water Division
5301 Northshore Drive
North Little Rock, Ar. 72118-5317
ATTN: Miles Johnson
