



CHEMICAL COMPANY

June 21, 2012

Arkansas Department of Environmental Quality
Water Enforcement Branch
5301 Northshore Drive
North Little Rock, AR 72118-5317

RE: NPDES Permit AR0000752 Discharge Monitoring Report for period ending May 31, 2012.

Enclosed you will find the Discharge Monitoring Report ending May 31, 2012.

Additionally, I would like to address that there was a discharge of fire water at Outfall 007 due to an incident at our facility on May 15, 2012. The discharge lasted approximately three hours. Chris Voss, ADEQ Oil & Gas Inspector, was at the EDCC facility when this discharge occurred. He required that samples be taken of the discharge for normal permit parameters plus Sulfates. Samples were collected and routed to an ADEQ certified laboratory. When the results were received, they were sent to Mr. Voss. The results are also attached in this packet.

If you have any questions regarding this report, please contact Larken Pennington at (870) 863-1125.

Sincerely,

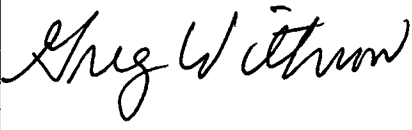
A handwritten signature in cursive script that reads "Greg Withrow". The signature is written in black ink and is positioned above the printed name and title.

Greg Withrow
General Manager

Enclosures

NON-COMPLIANCE REPORT

Facility Name: **El Dorado Chemical Company**
Permit Number: **AR0000752** **AFIN:** **70-00040**
Month / Year: **May-12**

Type of Violation	Permit Limit	Date of Violation	Cause of Violation	Corrective Action or Other Narrative
Outfall 007 / TDS Monthly Average (1400 mg/L)	291.0 mg/L Monthly Average	5/15/2012	Unknown	EDCC has land applied pelletized lime in the area of outfall 007 in an effort to promote vegetative cover.
Outfall 007 / TDS Daily Max (1400 mg/L)	436.5 mg/L Daily Max	5/15/2012	Unknown	EDCC has land applied pelletized lime in the area of outfall 007 in an effort to promote vegetative cover.
Outfall 007 / Zinc Monthly Average (154 ug/L)	115.62 ug/L Monthly Average	5/15/2012	Unknown	EDCC continues to monitor and evaluate potential sources of the Zinc exceedance.
<p>I CERTIFY THAT UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM 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 OF FINE AND IMPRISONMENT. SEE 18 U.S.C 1001 AND 33 U.S.C. 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)</p>				<div style="text-align: center;">  Signature / Date 6/21/12 </div>

17 May 2012

Larken Pennington
El Dorado Chemical Inc.
4500 North West Ave.
El Dorado, AR 71731
Project: Water Sample(s)



Date Received: 15-May-12 16:38

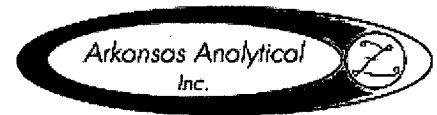
ANALYTICAL RESULTS

Lab Number: 1205170-01
Sample Name: 007 Grab
Date/Time Collected: 5/15/12 9:30
Sample Matrix: Water

<u>Anions</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Sulfate as SO4	mg/L	461		5/16/12 8:56	A205188	300.0/9058A
<u>Total Metals</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Cadmium	ug/L	0.536		5/16/12 11:06	A205205	200.7
Lead	ug/L	2.30	E20, J	5/15/12 17:00	A205203	3113B/7010
Zinc	ug/L	154		5/16/12 11:06	A205205	200.7
<u>Wet Chemistry</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Ammonia as N	mg/L	5.11		5/16/12 8:40	A205209	4500-NH3D
Oil and Grease	mg/L	< 2.5		5/16/12 9:00	A205217	1664A
TDS	mg/L	1400		5/15/12 16:48	A205204	2540C
TSS	mg/L	11		5/16/12 13:35	A205218	2540D

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4500 North West Ave.
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Project: Water Sample(s)



Date Received: 15-May-12 16:38

QUALITY CONTROL RESULTS

Anions -- Batch: A205188 (Water)

Prepared: 15-May-12 11:30 By: MG -- Analyzed: 15-May-12 14:06 By: MG

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Sulfate as SO4	<0.500 mg/L	106% / NA	106% / 102%		2.29%	

Total Metals -- Batch: A205203 (Water)

Prepared: 15-May-12 16:00 By: MH -- Analyzed: 15-May-12 16:00 By: MH

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Lead	<0.500 ug/L	107% / NA	162% / 74.0%		37.8%	%D1, D1

Wet Chemistry -- Batch: A205204 (Water)

Prepared: 15-May-12 16:48 By: AP -- Analyzed: 15-May-12 16:48 By: AP

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
TDS	<1.0 mg/L	108% / 104%	NA / NA		3.77%	

Total Metals -- Batch: A205205 (Water)

Prepared: 15-May-12 16:55 By: TC -- Analyzed: 16-May-12 10:58 By: TC

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Cadmium	<0.500 ug/L	96.3% / NA	97.6% / 99.5%		1.95%	
Zinc	<5.00 ug/L	91.3% / NA	94.8% / 97.6%		2.72%	

Wet Chemistry -- Batch: A205209 (Water)

Prepared: 15-May-12 16:00 By: SB -- Analyzed: 15-May-12 16:00 By: SB

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Ammonia as N	<0.50 mg/L	100% / NA	98.5% / 99.4%		0.793%	

Wet Chemistry -- Batch: A205217 (Water)

Prepared: 16-May-12 09:00 By: AT -- Analyzed: 16-May-12 09:00 By: AT

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Oil and Grease	<2.5 mg/L	87.0% / 91.9%	82.7% / NA		5.44%	

Wet Chemistry -- Batch: A205218 (Water)

Prepared: 15-May-12 13:33 By: AP -- Analyzed: 15-May-12 13:33 By: AP

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
TSS	<1.0 mg/L	92.0% / 101%	NA / NA		9.33%	

17 May 2012

Larken Pennington
El Dorado Chemical Inc.
4500 North West Ave.
El Dorado, AR 71731
Project: Water Sample(s)



Date Received: 15-May-12 16:38

QUALIFIER(S)

- *%D1: Matrix Spike and/or Matrix Spike Duplicate Percent Recovery Does Not Meet Laboratory Acceptance Criteria
 - *D1: RPD Value Does Not Meet Laboratory Acceptance Criteria.
 - *E20: Estimated Result Due to Matrix Spike and/or Matrix Spike Duplicate Failure; This sample was used as the "parent sample" in MS/MSD prep.
 - *J: Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
-

All Analysis performed according to EPA approved methodology when available:
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods, 20th Edition.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

A handwritten signature in cursive script that reads "Norma James".

Reviewed by: _____

Norma James
President



11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209
501-455-3233 Fax 501-455-6118

17 May 2012

Larken Pennington
El Dorado Chemical Inc.
4500 North West Ave.
El Dorado, AR 71731

RE: Water Sample(s)
SDG Number: 1205170

Enclosed are the results of analyses for samples received by the laboratory on 15-May-12 16:38. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✓
Containers Correct	✓
COC/Labels Agree	✓
Preservation Confirmed	✓
Received On Ice	✓
Temperature on Receipt	4.0°C

Sincerely,

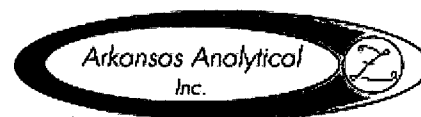
A handwritten signature in cursive script that reads "Norma James".

Norma James
President

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17 May 2012

Larken Pennington
El Dorado Chemical Inc.
4500 North West Ave.
El Dorado, AR 71731
Project: Water Sample(s)



Date Received: 15-May-12 16:38

CASE NARRATIVE

Sample Delivery Group: 1205170

Total Metals:

J-value: In an effort to meet client needs, a J-value was reported for Lead. A J-value is considered an "estimated" result as it is below the low standard in the calibration curve which determines the reporting limit, yet is above the method detection limit (MDL).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Failure: Lead failed to recover within acceptance criteria in the MS and/or MSD sample. The recovery was qualified by "%D1" in the quality control section of the final report. Lead was qualified as "estimated" (E20) in the parent sample, 1205170-01 (007 Grab).

Bio-Analytical Laboratories' Executive Summary

Permittee: El Dorado Chemical Company
4500 Northwest Avenue
El Dorado, AR 71731

Project #: X4750

Outfall: 001

Permit #: AR0000752/ AFIN #70-00040

Contact: Larken Pennington

Test Dates: May 22 - 29, 2012

Test Type: Chronic Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia* (EPA Method 1002.0).
Chronic Static Renewal Survival and Growth Test using *Pimephales promelas* (EPA Method 1000.0).

Results:

For *Ceriodaphnia dubia*:

1. If the NOEC for survival is less than the critical dilution (100%), enter a "1"; otherwise, enter a "0" for Parameter TLP3B - 1.
2. If the NOEC for reproduction is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter TGP3B - 1.
3. Report the NOEC value for survival, Parameter TOP3B - 75%.
4. Report the NOEC value for reproduction, Parameter TPP3B - 0%.
5. Report the largest % coefficient of variation between the control and the critical dilution, Parameter TQP3B - 15.78%.

Note: UV-treated 100% dilution not run due to lack of available test organisms.

For *Pimephales promelas*:

1. If the NOEC for survival is less than the critical dilution (100%), enter a "1"; otherwise, enter a "0" for Parameter TLP6C - 0.
2. If the NOEC for growth is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter TGP6C - 0.
3. Report the NOEC value for survival, Parameter TOP6C - 100%
4. Report the NOEC value for growth, Parameter TPP6C - 100%
5. Report the largest % coefficient of variation between the control and the critical dilution, Parameter TQP6C - 17.43%

Note: The UV treated 100% dilution showed no lethal or non-lethal effects.

**SUMMARY REPORTING FORMS
CHRONIC BIOMONITORING**

Ceriodaphnia dubia Survival and Reproduction

**Permittee: El Dorado Chemical
Outfall 001**

**NPDES No.: AR0000752
AFIN: 70-00040**

	Time	Date	To	Time	Date
Composite 1 Collected From	0830	5/20/12	To	0830	5/21/12
Composite 2 Collected From	0830	5/22/12	To	0830	5/23/12
Composite 3 Collected From	0830	5/24/12	To	0830	5/25/12
Test initiated:	1245 am/pm			5/22/12	date
Test terminated:	1300 am/pm			5/29/12	date
Dilution water used:	Receiving	X	Reconstituted		

PERCENT SURVIVAL

Time of Reading	Percent Effluent					
	0	32	42	56	75	100
24h	100	100	100	100	100	100
48h	100	90	90	90	90	80
End of test	100	90	90	90	80	60

NUMBER OF YOUNG PRODUCED PER FEMALE @ END OF TEST

Rep	0	32	42	56	75	
A	27	15	19	11	7	
B	20	12	18	D	D	
C	20	14	16	15	D	
D	22	18	17	7	6	
E	24	16	19	15	10	
F	29	17	21	11	6	
G	27	14	6	5	9	
H	21	22	D	16	9	
I	24	D	10	15	9	
J	31	24	22	11	6	
Surv. Mean	24.5	16.9	16.4	11.8	7.8	
Total Mean	24.5	15.2	14.8	10.6	6.2	
CV%*	15.78	23.21	31.76	32.82	21.54	

*coefficient of variation = standard deviation x 100/mean. D=dead adult

PMSD = 21.6%

Biomonitoring Form
 Chronic Toxicity Summary Form
Ceriodaphnia dubia
 Chemical Parameters Chart

Permittee: El Dorado Chemical
 NPDES No.: AR0000752/ APIN 70-00040
 Contact: Larken Pennington
 Analyst: Briggs, Ziegler, Callahan

Sample No. 1 Collected: Date: 5/21/12 Time: 0830
 Sample No. 2 Collected: Date: 5/23/12 Time: 0830
 Sample No. 3 Collected: Date: 5/25/12 Time: 0830
 Test Begins: Date: 5/22/12 Time: 1245
 Test Ends: Date: 5/29/12 Time: 1300

Dilution: 0 Day:									Dilution: 56 Day:								
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	25.1	24.9	24.7	25.3	25.1	25.0	25.2		Temp (C)	25.1	24.9	24.7	25.3	25.1	25.0	25.2	
DO Initial	8.6	8.7	8.2	8.2	8.3	8.1	8.2		DO Initial	8.4	8.7	8.2	8.2	8.1	8.0	8.0	
DO Final	8.5	8.5	8.2	8.2	8.3	8.2			DO Final	8.6	8.5	8.3	8.1	8.1	8.1		
pH Initial	7.8	8.0	7.9	8.2	8.0	8.0	7.7		pH Initial	7.8	8.1	7.8	8.0	8.0	8.0	7.8	
pH Final	7.8	7.8	7.8	7.6	7.8	7.9			pH Final	7.3	7.4	7.4	7.9	8.0	8.0		
Alkalinity	28.0								Alkalinity								
Hardness	40.0								Hardness								
Conductivity	172.2	177.2	171.9	181.6	180.1	179.4			Conductivity	300	300	296	331	328	328		
Chlorine	<.01								Chlorine								
Dilution: 32 Day:									Dilution: 75 Day:								
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	25.1	24.9	24.7	25.3	25.1	25.0	25.2		Temp (C)	25.1	24.9	24.7	25.3	25.1	25.0	25.2	
DO Initial	8.6	8.6	8.3	8.1	8.0	8.1	8.1		DO Initial	8.4	8.6	8.2	8.2	8.1	7.9	7.9	
DO Final	8.5	8.5	8.3	8.1	8.2	8.1			DO Final	8.6	8.5	8.3	8.0	8.1	8.0		
pH Initial	7.8	8.1	7.8	8.1	8.0	8.0	7.8		pH Initial	7.9	8.1	7.8	7.9	8.0	8.0	7.8	
pH Final	7.6	7.6	7.6	7.7	7.9	8.0			pH Final	7.3	7.3	7.3	7.9	7.9	7.9		
Alkalinity									Alkalinity								
Hardness									Hardness								
Conductivity	248	249	248	267	268	267			Conductivity	342	345	340	384	376	378		
Chlorine									Chlorine								
Dilution: 42 Day:									Dilution: 100 Day:								
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	25.1	24.9	24.7	25.3	25.1	25.0	25.2		Temp (C)	25.1	24.9	24.7	25.3	25.1	25.0	25.2	
DO Initial	8.5	8.7	8.3	8.2	8.0	8.0	8.0		DO Initial	8.4	8.6	8.1	8.2	8.1	7.9	7.8	
DO Final	8.5	8.5	8.5	8.3	8.2	8.1			DO Final	8.4	8.4	8.5	8.1	8.1	8.0		
pH Initial	7.8	8.1	7.8	8.0	8.0	8.0	7.8		pH Initial	7.9	8.1	7.7	7.9	7.8	7.9	7.9	
pH Final	7.4	7.5	7.5	7.8	7.9	8.0			pH Final	7.2	7.2	7.2	7.8	7.9	7.9		
Alkalinity									Alkalinity	52.0	52.0		60.0				
Hardness									Hardness	40.0	40.0		44.0				
Conductivity	269	272	266	294	291	289			Conductivity	402	402	396	449	445	449		
Chlorine									Chlorine	<.01	<.01		<.01				

Ceriodaphnia dubia
Survival and Reproduction (cont)

1. Fisher's Exact Test:

Is the mean survival at the end of the test significantly different ($p=.05$) than the control survival for the % effluent corresponding to (lethality):

a) LOW FLOW OR CRITICAL DILUTION (100%):	X	YES	NO
b) ½ LOW FLOW DILUTION (N/A%):		YES	NO

2. Dunnett's Procedure or Steel's Many-One Rank Test as appropriate:

Is the mean number of young produced per female significantly different ($p=.05$) than the control's number of young per female for the % effluent corresponding to (significant non-lethal effects):

a) LOW FLOW OR CRITICAL DILUTION (100%):	X	YES	NO
b) ½ LOW FLOW DILUTION (N/A%):		YES	NO

3. If you answered NO to 1. a) and 2. a) enter (0) otherwise enter (1): 1

4. If you answered NO to 1. b) and 2. b) enter (0) otherwise enter (1): N/A

5. Enter response to item 3 on DMR Form, parameter #TEP3B.

6. Enter response to item 4 on DMR Form, parameter #TFP3B.

7. Enter percent effluent corresponding to each NOEC below and circle lowest number:

a) NOEC survival:	75% effluent
b) NOEC reproduction:	0% effluent
c) LOEC survival:	100% effluent
d) LOEC reproduction:	32% effluent

**SUMMARY REPORTING FORMS CHRONIC BIOMONITORING
FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL
(*Pimephales promelas*)**

Permittee: El Dorado Chemical
Outfall 001

NPDES No.: AR0000752
AFIN: 70-00040

	Time	Date	Time	Date
Composite 1 Collected from:	0830	5/20/12 To	0830	5/21/12
Composite 2 Collected from:	0830	5/22/12 To	0830	5/23/12
Composite 3 Collected from:	0830	5/24/12 To	0830	5/25/12

Test initiated: 1255 am/pm 5/22/12 date
 Test terminated: 1030 am/pm 5/29/12 date
 Dilution water used: Receiving X Reconstituted

DATA TABLE FOR SURVIVAL

Effluent Conc. %	Percent Survival in Replicate Chambers					Mean Percent Survival			CV%*
	A	B	C	D	E	24h	48h	7 days	
0	87.5	87.5	87.5	100	100	97.5	97.5	92.5	7.84
32	100	100	87.5	87.5	75.0	100	100	90.0	11.68
42	100	100	100	100	100	100	100	100	0.00
56	75.0	100	100	100	87.5	100	100	92.5	12.12
75	100	87.5	100	87.5	87.5	100	100	92.5	7.84
100	100	87.5	100	100	100	100	100	97.5	6.06

DATA TABLE FOR GROWTH

Effluent Conc. %	Average Dry Weight in milligrams in replicate chambers					Mean Dry Weight mg	CV*
	A	B	C	D	E		
0	0.475	0.475	0.388	0.625	0.488	0.490	17.43
32	0.563	0.525	0.538	0.463	0.413	0.500	12.25
42	0.563	0.600	0.763	0.513	0.513	0.590	17.50
56	0.475	0.688	0.575	0.613	0.638	0.598	13.35
75	0.538	0.450	0.575	0.475	0.538	0.515	9.92
100	0.625	0.575	0.663	0.563	0.600	0.605	6.63
0-SN	0.543	0.543	0.443	0.625	0.488	0.528	12.96

*coefficient of variation = standard deviation x 100/mean.

PMSD = 22.8%

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL (cont)
(Pimephales promelas)

1. Dunnett's Procedure or Steels Many-One Rank Test as appropriate:

Is the mean survival at 7 days significantly different ($p=.05$) than the control survival for the % effluent corresponding to:

- | | | | |
|---|-----|---|----|
| a) LOW FLOW OR CRITICAL DILUTION (100%) | YES | X | NO |
| b) 1/2 LOW FLOW DILUTION (N/A%) | YES | | NO |

2. Dunnett's Procedure (or appropriate test):

Is the mean dry weight (growth) at 7 days significantly different ($p=.05$) than the control's dry weight for the % effluent corresponding to (significant non-lethal effects):

- | | | | |
|---|-----|---|----|
| a) LOW FLOW OR CRITICAL DILUTION (100%) | YES | X | NO |
| b) 1/2 LOW FLOW DILUTION (N/A%) | YES | | NO |

3. If you answered NO to 1. a) and 2. a) enter (0) otherwise enter (1): 0

4. If you answered NO to 1. b) and 2. b) enter (0) otherwise enter (1): N/A

5. Enter response to item 3 on DMR Form, parameter #TEP6C.

6. Enter response to item 4 on DMR Form, parameter #TFP6C.

7. Enter percent effluent corresponding to each NOEC below and circle lowest number:

- | | |
|-------------------|----------------|
| a.) NOEC survival | 100% effluent. |
| b.) NOEC growth | 100% effluent. |
| c.) LOEC survival | N/A% effluent |
| d.) LOEC growth | N/A% effluent |

Biomonitoring Form
Chronic Toxicity Summary Form
Pimephales promelas
Chemical Parameters Chart

Permittee: RI Dorado Chemical
NPDES No.: AR0000752/AFIN 70-00040
Contact: Larken Peanington
Analyst: Briggs, Zeagler, Callahan

Sample No. 1 Collected: Date: 5/21/12 Time: 0830
Sample No. 2 Collected: Date: 5/23/12 Time: 0830
Sample No. 3 Collected: Date: 5/25/12 Time: 0830
Test Begin: Date: 5/22/12 Time: 1255
Test End: Date: 5/29/12 Time: 1030

Dilution: 0 Day:									Dilution: 56 Day:								
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	25.7	25.7	25.8	26.0	25.7	25.5	26.0		Temp (C)	25.7	25.7	25.8	26.0	25.7	25.5	26.0	
DO Initial	7.7	6.7	6.3	6.1	6.2	6.3	6.9		DO Initial	7.6	6.6	6.4	6.1	6.6	5.6	6.6	
DO Final	8.5	8.5	8.2	8.2	8.3	8.1			DO Final	8.6	8.5	8.3	8.1	8.1	8.1		
pH Initial	7.4	7.4	7.4	7.4	7.3	7.3	7.4		pH Initial	7.6	7.4	7.5	7.3	7.5	7.3	7.4	
pH Final	7.8	7.8	7.8	7.6	7.8	7.9			pH Final	7.3	7.4	7.4	7.9	8.0	8.0		
Alkalinity	28.0								Alkalinity								
Hardness	40.0								Hardness								
Conductivity	172.2	177.2	171.9	181.6	180.1	179.4			Conductivity	300	300	296	331	328	328		
Chlorine	<.01								Chlorine								
Dilution: 32 Day:									Dilution: 75 Day:								
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	25.7	25.7	25.8	26.0	25.7	25.5	26.0		Temp (C)	25.7	25.7	25.8	26.0	25.7	25.5	26.0	
DO Initial	7.7	6.6	6.2	6.9	6.8	6.8	6.9		DO Initial	7.6	6.6	6.5	6.1	6.6	5.5	6.4	
DO Final	8.5	8.5	8.3	8.1	8.2	8.1			DO Final	8.6	8.5	8.3	8.0	8.1	8.0		
pH Initial	7.5	7.4	7.4	7.3	7.4	7.4	7.4		pH Initial	7.6	7.5	7.5	7.4	7.6	7.3	7.4	
pH Final	7.6	7.6	7.6	7.7	7.9	8.0			pH Final	7.3	7.3	7.3	7.9	7.9	7.9		
Alkalinity									Alkalinity								
Hardness									Hardness								
Conductivity	248	249	249	267	268	267			Conductivity	342	345	340	384	376	378		
Chlorine									Chlorine								
Dilution: 42 Day:									Dilution: 100 Day:								
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	25.7	25.7	25.8	26.0	25.7	25.5	26.0		Temp (C)	25.7	25.7	25.8	26.0	25.7	25.5	26.0	
DO Initial	7.6	6.7	6.5	6.9	6.6	5.8	6.8		DO Initial	7.5	6.8	6.4	6.1	6.4	5.4	6.4	
DO Final	8.5	8.5	8.3	8.1	8.2	8.1			DO Final	8.4	8.4	8.5	8.1	8.1	8.0		
pH Initial	7.6	7.4	7.4	7.3	7.4	7.3	7.4		pH Initial	7.7	7.5	7.5	7.4	7.6	7.3	7.4	
pH Final	7.4	7.5	7.5	7.8	7.9	8.0			pH Final	7.2	7.2	7.2	7.8	7.9	7.9		
Alkalinity									Alkalinity	52.0	52.0		60.0				
Hardness									Hardness	40.0	40.0		44.0				
Conductivity	269	272	266	294	291	289			Conductivity	402	402	396	449	445	449		
Chlorine									Chlorine	<.01	<.01		<.01				

From: (870) 863-1428
Robbie Caviness
El Dorado Chemical Company
4500 NW Avenue

Origin ID: ELDA



J12201205300325

El Dorado, AR 71730

Ship Date: 21JUN12
ActWgt: 2.0 LB
CAD: 5887030/NET3300

Delivery Address Bar Code



SHIP TO: (501) 682-0880

BILL SENDER

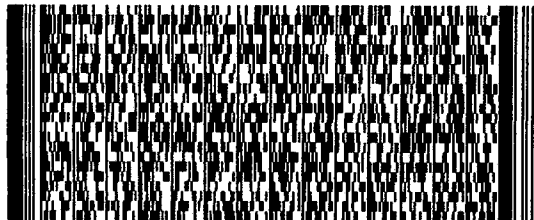
ADEQ - Water Division Enforcement
5301 Northshore Drive

North Little Rock, AR 72118

Ref #
Invoice #
PO #
Dept #

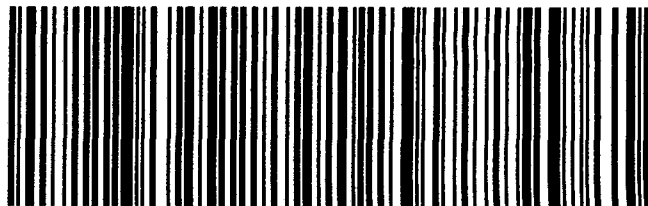
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