

4500 NORTH WEST AVE. • P. O. BOX 231 • EL DORADO, AR 71731 • (870) 863-1400



December 20, 2006

DEC 20 2006

Sw

Mr. Mo Shafii
Water Quality Division
ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
P.O. Box 8913
Little Rock, AR 72219-8913

Re: NPDES Permit Renewal Application: Permit No. AR0000752

Dear Mr. Shafii:

Please find enclosed the NPDES permit renewal application package for the above referenced permit. This application package includes Forms 1, 2C, 2F, 2E and PPS, as well as other pertinent information necessary to complete the permitting process.

Please do not hesitate to contact me at (870) 863-1484, or Kyle Hathcote, GBMc & Associates at (501) 847-7077 should you have any questions or need additional information during the permit renewal process.

Sincerely,
El Dorado Chemical Company

A handwritten signature in cursive script, appearing to read "Wesley Morgan".

Mr. Wes Morgan
Environmental Compliance Manager

Enclosure

APPLICATION SUMMARY

El Dorado Chemical Company (EDCC) manufactures ammonium nitrate, nitric acid, and sulfuric acid at a facility located in El Dorado, Arkansas. The facility is currently permitted through the Arkansas Department of Environmental Quality (ADEQ), National Pollutant Discharge Elimination System (NPDES) Permit No. AR0000752. EDCC facility's current NPDES Permit expires on June 30, 2007; therefore, this application package is being submitted to request a renewal of the existing NPDES permit. Included with this application package are Forms 1, 2C, 2E, 2F, PPS, Area Maps, Site Diagrams, Water Supply Source, and other pertinent information necessary to complete the permit renewal process.

During this permit renewal process we would like to bring a couple of items to your attention:

- 1) The consolidation of NPDES Outfall 004 and NPDES Outfall 005 to NPDES Outfall 001. In 2006, a pump system was installed at NPDES Outfall 004 to divert storm water to the Day Pond, (which discharges through NPDES Outfall 001) and the outfall structure was blocked off to prevent discharge through NPDES Outfall 004. Additionally, modifications of underground drainage structures have changed the areas that drain to NPDES Outfall 005. Storm water drainage from these areas is now diverted to the Day Pond, which discharges through NPDES Outfall 001.
- 2) During the time of permit renewal application preparation, Outfall 002 (emergency overflow outfall form the Day Pond) did not discharge. Additionally, Outfall has only discharged twice during the past two years.

**PERMIT APPLICATION
FORM 1**

DEC 29 2006

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER DIVISION
POST OFFICE BOX 8913
LITTLE ROCK, AR 72219

PURPOSE OF THIS APPLICATION

- INITIAL PERMIT APPLICATION FOR NEW FACILITY
- INITIAL PERMIT APPLICATION FOR EXISTING FACILITY
- MODIFICATION OF EXISTING PERMIT
- REISSUANCE (RENEWAL) OF EXISTING PERMIT
- MODIFICATION AND CONSTRUCTION OF EXISTING PERMIT
- CONSTRUCTION PERMIT ONLY

SECTION A – GENERAL INFORMATION

1. Facility Name: El Dorado Chemical Company
2. Legal Applicant Name (If the applicant is different from the above): NA
3. Operator Name: El Dorado Chemical Company
4. Is the operator identified in number 2 above, the owner of the facility? Yes No
5. NPDES Permit Number (If applicable): AR0000752
6. NPDES General Permit Number (If applicable): NA
7. NPDES General Storm Water Permit Number (If applicable): N/A
8. Does your facility hold any other permits that are not listed above? Yes No
9. Permit numbers and/or names of any permits issued by ADEQ or EPA for an activity located in Arkansas that is presently held by the applicant or its parent or subsidiary corporation:

<u>Permit Name</u>	<u>Permit Number</u>	<u>Held by</u>
<u>Air Permit</u>	<u>0573-AR-06</u>	<u>EDCC</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

10. Give a verbal description (Direction) of the facility with respect to known or easily identifiable landmarks:
The facility is located north of the city of El Dorado, approximately 1 mile west of State Highway 7 Spur on North West Avenue.
11. Facility Location: (Attach a map with location marked; street, route no. or other specific identifier)
Street: 4500 North West Avenue
City: El Dorado County: Union State: AR Zip Code: 71730
12. Facility Mailing Address (Street or Post Office Box):
Street: NA P.O. Box: P.O. Box 231
City: El Dorado State: AR Zip: 71731-0231
13. Neighboring states within 20 miles of the permitted facility (Check all that apply):
Oklahoma Missouri Tennessee Louisiana Texas Mississippi
14. Type of ownership: Public Private State Federal Other
15. Indicate applicable Standard Industrial Classification(SIC) Codes or NAICS codes for all processes"
 Primary 2873 Secondary 2819 Other
16. Design Flow: 2 MGD Highest Monthly Average of the last two years flow: 1.59 MGD
17. Is Outfall equipped with a diffuser? Yes No
18. Responsible Official (as described on the last page of this application):
Name: Greg Withrow Title General Manager
Address: PO Box 231 Phone Number: (870) 863-1400
City: El Dorado State: AR Zip: 71731
19. Designated Facility Contact (as described on the last page of this application):
Name: Wes Morgan Title Environmental Compliance Manager
Address: PO Box 231 Phone Number: (870) 863-1498
City: El Dorado State: AR Zip: 71731
20. Name, address and telephone number of consulting engineering firm (If none, so state):
Name: GBM^C & ASSOCIATES
Address: 219 Brown Lane Phone Number: (501) 847-7077
City: Bryant State: AR Zip: 72022

SECTION B – Facility and Outfall Information

1. Facility Location:

Lat: 33° 09' 55" N Long: 92° 24' 40" W Section 6 & 7 Twnshp: 17S

Range: 15W County: Union Nearest Town: El Dorado

USGS Hydrologic Unit Code: 08040202 What map scale is used? 1:24,000

What method is used? A Indicate Technical Accuracy 3

What map datum is used? 1 Where is the collection point? 1

2. Outfall/monitoring location:

Outfall 001:

Lat: 33° 15' 32" Long: 92° 41' 12" Section: 2

USGS Hydrologic Unit Code: 08040201 What map scale is used? 1:24,000

What method is used? A Indicate Technical Accuracy 3

What map datum is used? 1 Where is the collection point? 001

Name of receiving stream (i.e., an unnamed tributary of Mill Creek, then into Mill Creek; thence into Arkansas River): An unnamed tributary of Flat Creek in Segment 2D of the Ouachita River Basin.

Outfall 002:

Lat: 33° 15' 48" Long: 92° 41' 24" Section: 2

USGS Hydrologic Unit Code: 08040201 What map scale is used? 1:24,000

What method is used? A Indicate Technical Accuracy 3

What map datum is used? 1 Where is the collection point? 002

Name of receiving stream (i.e., an unnamed tributary of Mill Creek, then into Mill Creek; thence into Arkansas River): An unnamed tributary of Flat Creek in Segment 2D of the Ouachita River Basin.

Outfall 003:

Lat: 33° 15' 38" Long: 92° 41' 07" Section: 2

USGS Hydrologic Unit Code: 08040201 What map scale is used? 1:24,000

What method is used? A Indicate Technical Accuracy 3

What map datum is used? 1 Where is the collection point? 003

Name of receiving stream (i.e., an unnamed tributary of Mill Creek, then into Mill Creek; thence into Arkansas River): An unnamed tributary of Flat Creek in Segment 2D of the Ouachita River Basin.

Outfall 006:

Lat: 33° 16' 03" Long: 92° 41' 02" Section: 2

USGS Hydrologic Unit Code: 08040201 What map scale is used? 1:24,000

What method is used? A Indicate Technical Accuracy 3

What map datum is used? 1 Where is the collection point? 006

Name of receiving stream (i.e., an unnamed tributary of Mill Creek, then into Mill Creek; thence into Arkansas River): An unnamed tributary of Flat Creek in Segment 2D of the Ouachita River Basin.

Outfall 007:

Lat: 33° 16' 11" Long: 92° 41' 16" Section: 2

USGS Hydrologic Unit Code: 08040201 What map scale is used? 1:24,000

What method is used? A Indicate Technical Accuracy 3

What map datum is used? 1 Where is the collection point? 007

Name of receiving stream (i.e., an unnamed tributary of Mill Creek, then into Mill Creek; thence into Arkansas River): An unnamed tributary of Flat Creek in Segment 2D of the Ouachita River Basin.

Outfall 010:

Lat: 33° 17' 22" Long: 92° 28' 05" Section: 2

USGS Hydrologic Unit Code: 08040201 What map scale is used? 1:24,000

What method is used? A Indicate Technical Accuracy 3

What map datum is used? 1 Where is the collection point? 010

Name of receiving stream (i.e., an unnamed tributary of Mill Creek, then into Mill Creek; thence into Arkansas River): Via pipeline to the Ouachita River. Approximately 13.9 miles east of EDCC, on the Ouachita River, in the NE ¼ of the NW ¼ of Section 31, T16S, R13W

3. Are the proposed or existing facility located above the 100-year flood level? Yes No
If "No", what measures are (will be) used to protect the facilities? NA

4. Type of treatment system (include all components of treatment system and attach the process flow diagram): Process wastewater and storm water will enter the Day Pond for aeration & settling. Effluent then gravity flows from the Day Pond to the 50-acre equalization basin for equalization & polishing.

Section C – Waste Storage and Disposal Information -- N/A

1. Sludge Disposal Method (Check as many as applicable):

Landfill

Landfill Site Name N/A ADEQ Solid Waste Permit No. _____

Land Application ADEQ State Permit No. _____

Method of sludge treatment? _____

What is the estimated amount of sludge generated at the treatment facility?

Dry Ton/Acre per year _____ Gallons/Acres per year _____

List all the land application sites with the following information:

Field Number	New/ Old	Range	Twncshp.	Section	Total Acres	Available Acres	Crop Cover	Loading Rate

Septic tank Arkansas Department of Health Permit No. _____

Distribution and Marketing

Facility receiving sludge:

Name _____ Address _____

City _____ State _____ Zip _____ Phone _____

Rail Pipe Other _____

Subsurface Disposal (Lagooning)

Location of lagoon _____ How old is the lagoon? _____

Surface area of lagoon _____ Acre Depth _____ Ft Does lagoon have liner? Yes No

Incineration

Location of incinerator _____

Other (Provide complete description) _____

SECTION D – Water Supply See Water Supply Sources

Water Sources (check as many as are applicable):

- Private Well**
Distance from discharge point: Within 5 miles Within 50 miles
- Municipal Water Utility** (Specify City) See Water Supply Sources Attachment
Distance from discharge point: Within 5 miles Within 50 miles
- Surface Water** Name of Surface Water Source: See Water Supply Sources Attachment
Distance from discharge point: Within 5 miles Within 50 miles
- Other (Specify):** Wells – See Water Supply Sources Attachment
Distance from discharge point: Within 5 miles Within 50 miles

SECTION E – Financial Assurance

Act 336 of 1995 provides for financial assurance requirements for permitting common sewage systems. Arkansas Code 8-5-703 (1)(1)-The Department of Pollution Control and Ecology shall not permit or register any common sewage system serving two (2) or more occupied lots, residences, businesses, or other discernible occupied unity without the applicant first demonstrating to the department its financial ability to cover the costs of operating and maintaining the system for a period of five (5) years.

Please provide **financial assurance** in order to show that the facility is able to cover the costs of operating and maintaining the treatment system for the next five years.

The minimal financial assurance may be demonstrated to the department (Arkansas Code 8-5-703(a)(2)):

- A. By obtaining insurance;
- B. By passing a financial test;
- C. By obtaining a letter of credit;
- D. By obtaining a surety bond;
- E. By obtaining a trust fund or escrow account;
- F. Through the use of a combination of insurance, financial test, letter of credit, surety bond, trust fund, or escrow account.

SECTION H – Technical Information

Technical information to support this application shall be furnished in appropriate detail to understand the project. Information in this Part is required for obtaining a **construction permit** or for **modification** of the treatment/disposal system.

1. Describe the process for wastewater treatment. Include the types of control equipment to be installed along with their methods of operation and control efficiency.

There are no proposed changes to the existing treatment system at this time. However, Outfall 004 and 005 have been routed to the Day Pond, which will then discharge through Outfall 001.

2. One set of construction plans and specifications, approved by a **Professional Engineer (PE)** registered in **Arkansas**, must be submitted as follows:
 - a. The plans must show flow rates in addition to pertinent dimensions so that detention times, overflow rates, and loadings per acre, etc. can be calculated.
 - b. Specifications and a complete design calculations.
 - c. **All treated wastewater discharges** should have a flow-measuring device such as a weir or Parshall flume installed. Where there is a significant difference between the flow rates of the raw and treated wastewater, a flow-measuring device should be provided both before and after treatment.
3. If this application includes a construction permit disturbing five or more acres, a storm water construction permit must be obtained by submitting a notice of intent (NOI) to ADEQ.

SECTION I – Signatory Requirements

The information contained in this form must be certified by a responsible official as defined in the "signatory requirements for permit applications" (40 CFR 122.22).

Responsible official is defined as follows:

Corporation: a principal officer of at least the level of vice president

Partnership: a general partner

Sole proprietorship: the proprietor

Municipal, state, federal, or other public facility: principal executive officer or ranking elected official

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. I further certify under penalty of law that all analyses reported as less than detectable in this application or attachments thereto were performed using the EPA approved test method having the lowest detection limit for the substance tested.

Signature of responsible official: _____

Greg Withrow

Date: 12/20/06

Printed name of responsible official: _____

Greg Withrow

Official title of responsible official: _____

General Manager

Telephone Number (870) 863-1400

By signature in Section H above, the applicant certifies that the named individual is qualified as print below to act as a duly authorized representative under the provisions of 40CFR 122.22(b). (NOTE: If no duly authorized representative is designated in this section, the Department considers the applicant to be the responsible official for the facility and only reports, etc., signed by the applicant will be accepted by the Department.)

Cognizant Official (Duly Authorized Representative)

40 CFR 122.22(b) states that all reports required by the permit, or other information requested by the Director, shall be signed by the applicant (or person authorized by the applicant) or by a duly authorized representative of that person. A person is a duly authorized representative only if:

- (1) the authorization is made in writing by the applicant (or person authorized by the applicant):
- (2) the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity responsibility, or an individual or position having overall responsibility for environmental matters for the company.

The applicant hereby designates the following person as a cognizant official, or duly authorized representative, for signing reports, etc., including Discharge Monitoring Reports (DMRs) required by the permit, and other information requested by the Director.

Greg Withrow

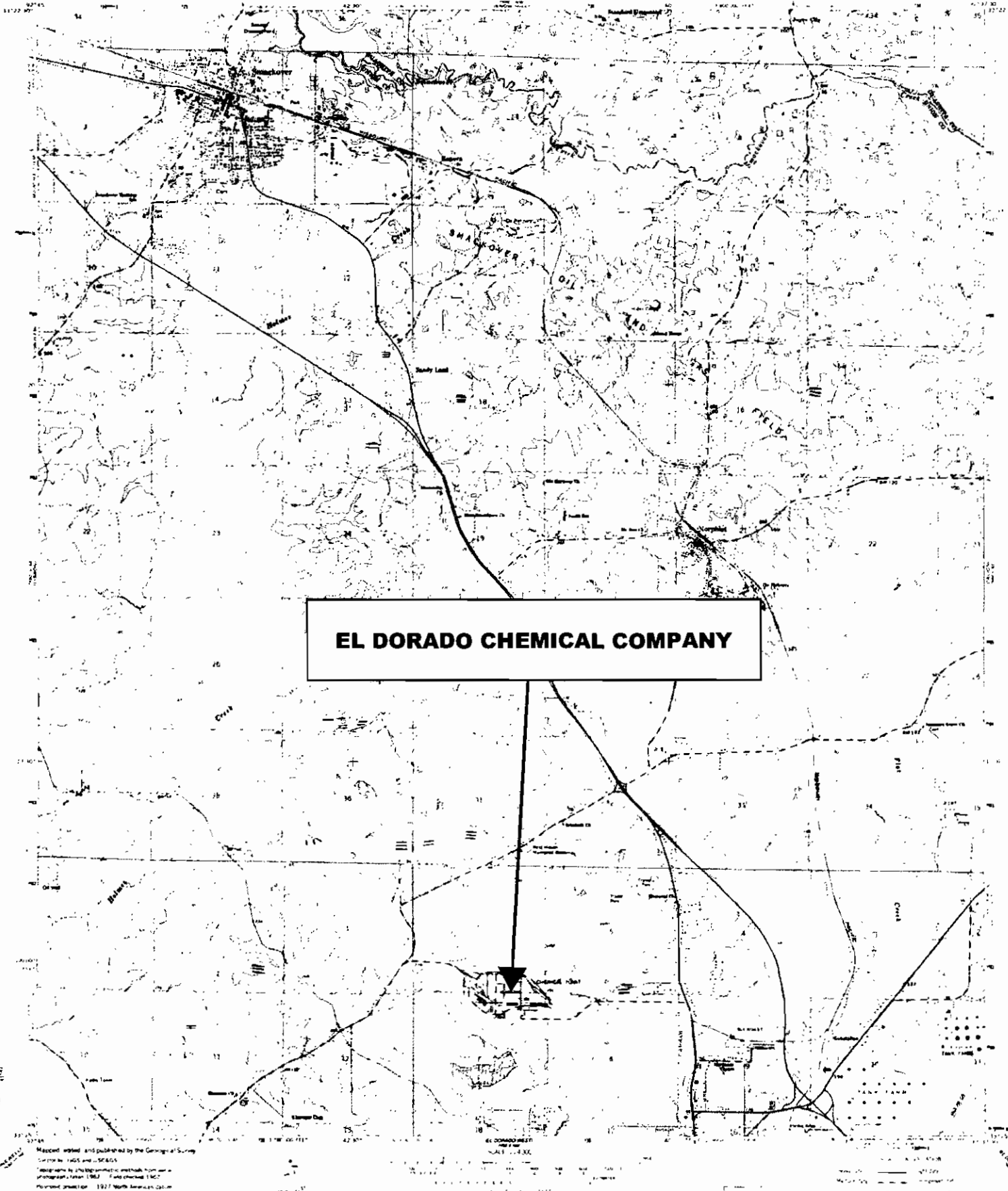
NAME (first, last)

General Manger

TITLE

(870) 863-1400

TELEPHONE



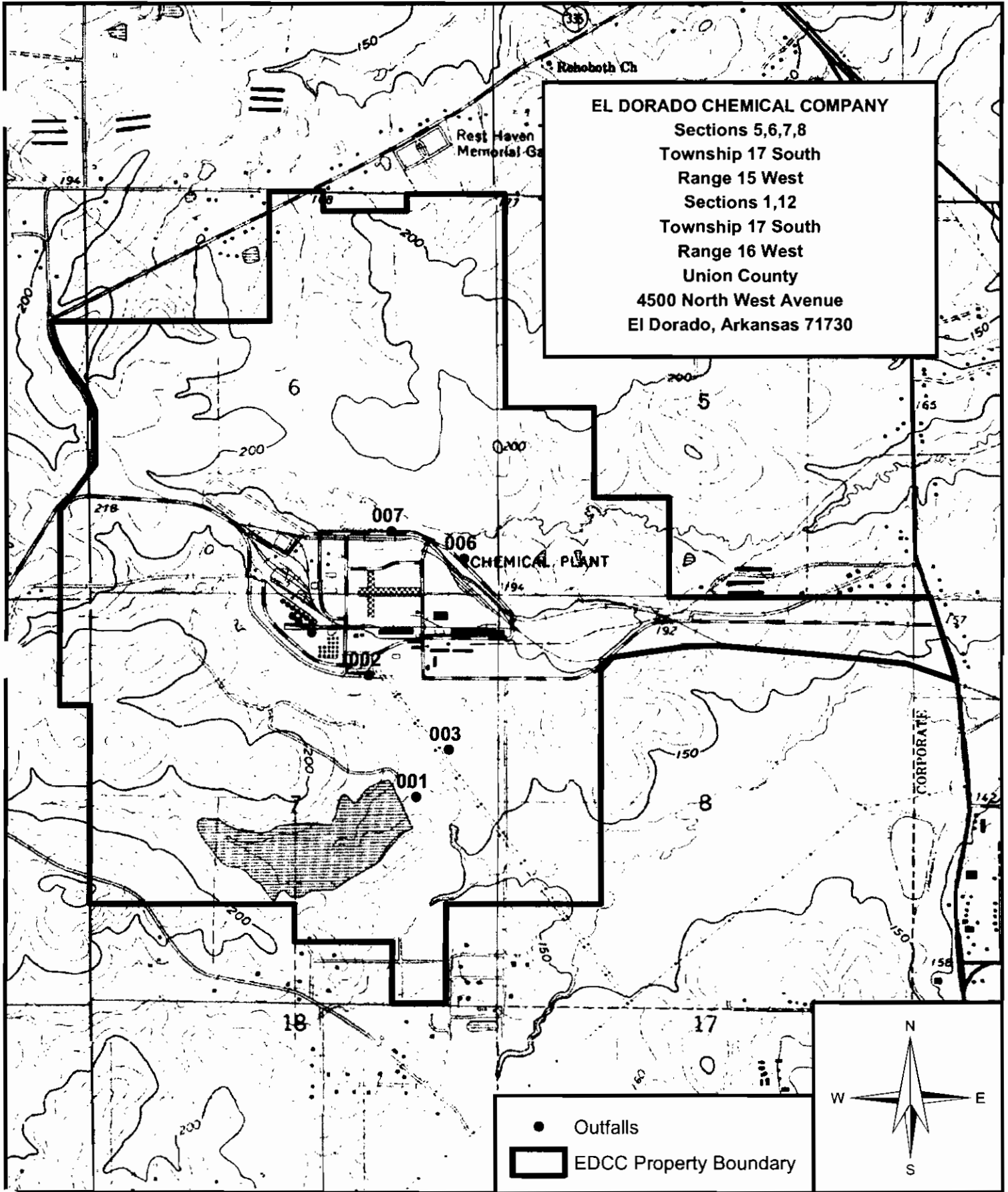
EL DORADO CHEMICAL COMPANY

Vertical text on the left margin, possibly a scale or coordinate indicator.

Revised, edited, and published by the Geological Survey
Control by U.S.G.S. and U.S.G.A.S.
Topographic maps are published by the Geological Survey
in accordance with the program of the
Department of the Interior, 1927 North American Datum
of 1983. The map is based on the North American Datum of 1983
and is not intended for use in navigation.
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and is not intended for use in navigation.

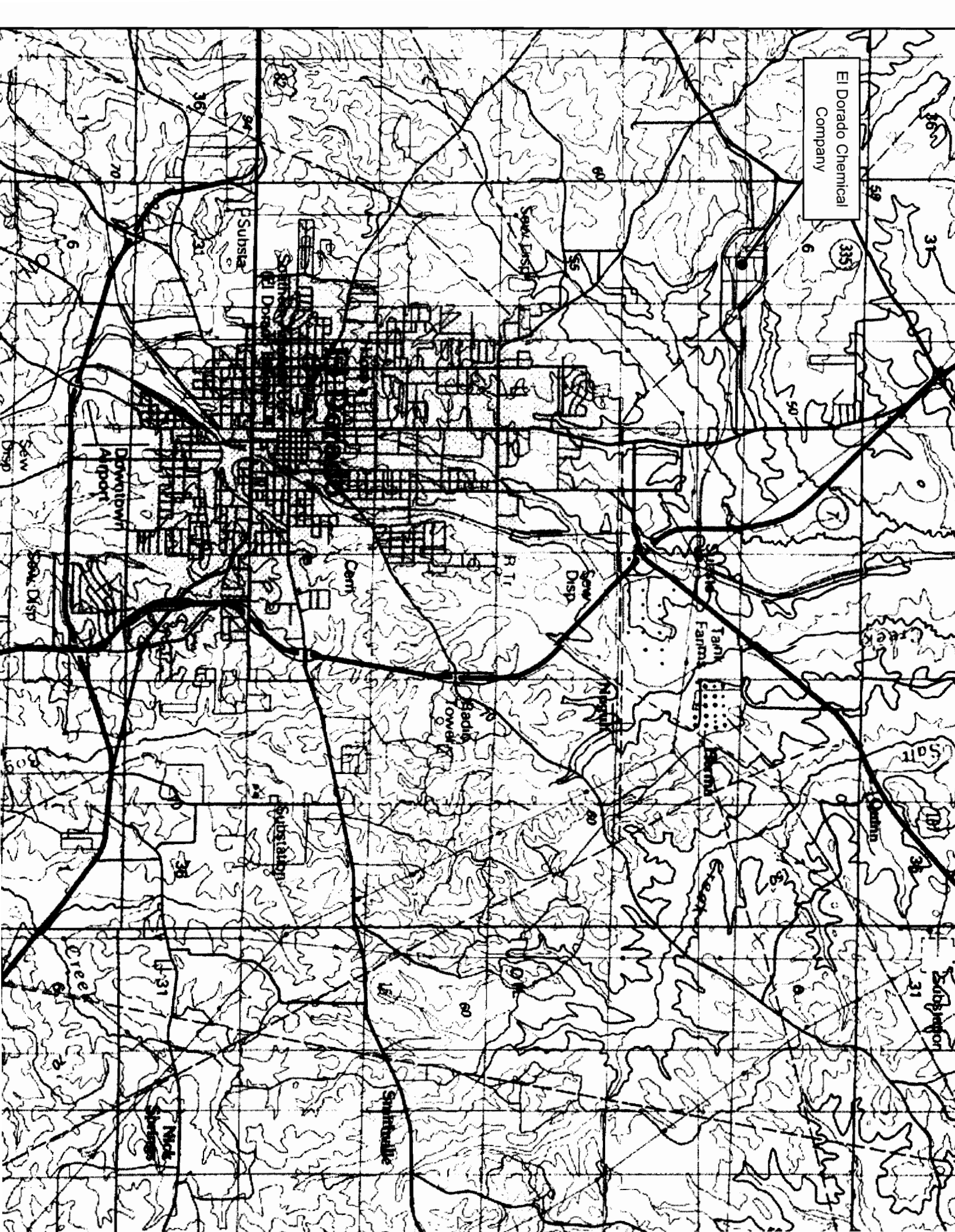
FOR SALE BY U.S. GEOLOGICAL SURVEY CENTER, COLLEGE PARK, MARYLAND 20740
AND ARKANSAS GEOLOGICAL COMMISSION, LITTLE ROCK, ARKANSAS 72204
A FOLDER OF SIMILAR TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

SMACKOVER, ARK.
BY A. H. HARRIS, JR., GEOLOGICAL SURVEY
1967
1:250,000
7.5 MINUTE SERIES

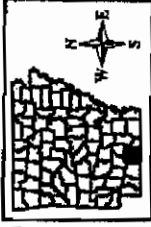


El Dorado Chemical Company property boundary and outfall locations.

El Dorado Chemical
Company



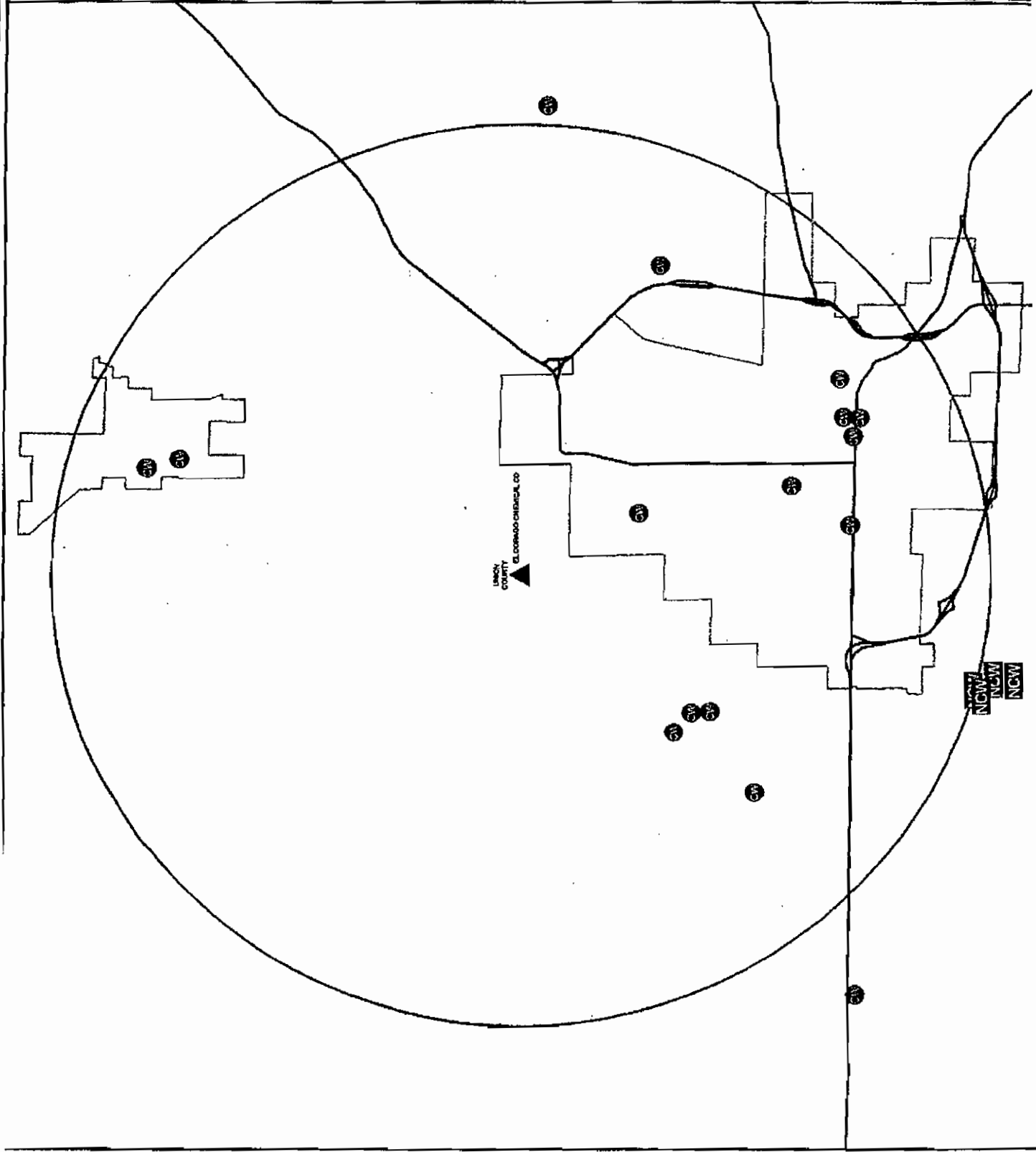
**EL DORADO
CHEMICAL CO
(5-MILE BUFFER)**



- ▲ EL DORADO CHEM CO
- COMMUNITY WELL
- NCW NON COMMUNITY WELL
- COMMUNITY SURFACE
- NCS NON COMMUNITY SURFACE
- HIGHWAY
- US HIGHWAY
- CITY LIMITS
- 5 MILE BUFFER
- COUNTY BOUNDARY



The information herein is derived from sources managed by other agencies and organizations in their own interests. The Agency makes no warranty, representation, or assurance of accuracy, completeness, timeliness, or fitness for a particular purpose with respect to this information. Contributors share the responsibility for the accuracy of the information.



Please print or type in the unshaded areas only.

FORM
2C
NPDESU.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program**OUTFALL LOCATION**

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (name)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
001	33	15	32	92	41	12	Unnamed Tributary of Flat Creek
002	33	15	48	92	41	24	Unnamed Tributary of Flat Creek
010	33	17	22	92	28	05	Ouachita River

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO (list)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT	
	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1
001, 002, & 010	Nitric Acid Manufacturing		Neutralization, aeration, equalization,	2K, 3B, 3G
	• Storm Water	variable		
	• Cooling Towers (3)	170 GPM		
	• Rail Car Cleaning	33 GPM		
	• Boiler Blowdown (2)	10 GPM		
	• Decanted Water From Vaporizer	0.1 GPM		
	• Wash Down Water	10 GPM		
	Sulfuric Acid Manufacturing		Neutralization, aeration, equalization,	2K, 3B, 3G
	• Storm Water	variable		
	• Rail Car Cleaning	23 GPM		
	• Boiler Blowdown	5 GPM		
	Ammonium Nitrate Prilling, Shipping & Storage (Low Density and High Density)		Aeration, equalization,	3B, 3G
	• Storm Water	variable		
	• Wash Down of Solid Material Spills	15 GPM		
	• Cooling Tower	8 GPM		
	Steam Plant		Aeration, equalization,	3B, 3G
	• Storm Water	variable		
	• RO Waste Stream	50 GPM	None	
	• Boiler Blowdown	15 GPM		
	Ammonia Storage		Aeration, equalization,	3B, 3G
• Storm Water	variable			
• Condensate off of Ammonia Storage Containers	<10 GPM			

OFFICIAL USE ONLY (effluent guidelines sub-categories)

NTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

YES (complete the following table)

NO (go to Section III)

1. OUTFALL NUMBER (list)	2. OPERATION(S) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW				c. DURATION (in days)
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)		b. TOTAL VOLUME (specify with units)		
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
001, 002, 010	Wash down of solid material spills (from ammonium nitrate prilling)	7	8	Unknown	15 GPM	Unknown	Unknown	242
001, 002, 010	Cooling tower spills (from ammonium nitrate prilling)	7	8	8 GPM	Unknown	Unknown	Unknown	242
001, 002, 010	Decanted water from the ammonia vaporizer (from ammonium nitrate neutralizers)			0.1 GPM	Unknown	Unknown	Unknown	242

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

YES (complete Item III-B)

NO (go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?

YES (complete Item III-C)

NO (go to Section IV)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (list outfall numbers)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	
2,908	1,000 lbs/day	Ammonium Nitrate	001, 002, 010
2,496	1,000 lbs/day	Nitric Acid	001, 002, 010
680	1,000 lbs/day	Sulfuric Acid	001, 002, 010

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

YES (complete the following table)

NO (go to Item IV-B)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED
CAO LIS 02-059	001 002 003 004 005 006 007	process, storm water, Process, storm water Sanitary storm water storm water storm water storm water	Compliance Schedule – All Outfalls Deliverables: Progress Reports,	08/01/07	08/01/07

OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction

MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding—Complete one set of tables for each outfall—Annotate the outfall number in the space provided.

NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

- J. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
NONE			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

 YES (list all such pollutants below) NO (go to Item VI-B)

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

YES (identify the test(s) and describe their purposes below)

NO (go to Section VIII)

NPDES Outfall 001 Chronic Toxicity Biomonitoring

	Fathead Minnow Survival	Fathead Minnow Growth	Ceriodaphnia Survival	Ceriodaphnia Reproduction
June 04	Fail	Fail	Fail	Fail
July 04	Fail	Fail	Fail	Fail
August 04	Fail	Fail	Fail	Fail
September 04	Fail	Fail	Pass	Fail
October 04	Fail	Fail	Pass	Fail
November 04	Fail	Fail	Pass	Fail
December 04	Fail	Fail	Pass	Fail
January 05	Fail	Fail	Pass	Fail
February 05	Fail	Fail	Pass	Pass
March 05	Fail	Fail	Pass	Fail
April 05	Pass	Fail	Pass	Pass
May 05	Pass	Fail	Pass	Fail
June 05	Pass	Fail	Pass	Pass
September 05	Pass	Pass	Pass	Fail
October 05	Pass	Pass	Pass	Pass
January 06	Pass	Pass	Pass	Pass
February 06	Pass	Pass	Pass	Pass
March 06	Pass	Fail	Pass	Pass
April 06	Pass	Pass	Pass	Fail
June 06	Pass	Pass	Pass	Pass

NPDES Outfall 002 Chronic Toxicity Biomonitoring

	Fathead Minnow Survival	Daphnia pulex Survival
April 05	Pass	Fail
January 06	Pass	Fail

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?


YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

NO (go to Section IX) N/A

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
Arkansas Analytical Inc.	11701 I-30, Building 1, Suite 115 Little Rock, AR 72209	501-455-3233	All

IX. CERTIFICATION

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.

A. NAME & OFFICIAL TITLE (type or print)	B. PHONE NO. (area code & no.)
Greg Withrow General Manager	(870) 863-1400
C. SIGNATURE	D. DATE SIGNED
	12/20/06

THIS PAGE INTENTIONALLY LEFT BLANK
APPLICATION CONTAINS INSTRUCTIONS HERE
BUT BLANK PAGE IS NEEDED FOR CORRECT PAGE NUMBER
SEQUENCE!!!!!!

Outfall 001

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS

I.D. NUMBER (copy from item 1 of Form 1)
AR0000752

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

OUTFALL NO.
001

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

1. POLLUTANT	2. EFFLUENT				3. UNITS (specify if blank)				4. INTAKE (optional)			
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCEN- TRATION	(2) MASS	(1) CONCEN- TRATION	(2) MASS	(1) CONCEN- TRATION	(2) MASS				(1) CONCEN- TRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	7.14	80.5	N/A	N/A	N/A	N/A	1	mg/L	lbs/day	N/A	N/A	N/A
b. Chemical Oxygen Demand (COD)	35.5	400.3	N/A	N/A	N/A	N/A	1	mg/L	lbs/day	N/A	N/A	N/A
c. Total Organic Carbon (TOC)	9.12	102.8	N/A	N/A	N/A	N/A	1	mg/L	lbs/day	N/A	N/A	N/A
d. Total Suspended Solids (TSS)	36	388	26.0	141	9.32	73.8	23	mg/L	lbs/day	N/A	N/A	N/A
e. Ammonia (as N)	84.4	1002	66.1	706	34.5	320	23	mg/L	lbs/day	N/A	N/A	N/A
f. Flow	VALUE	1.87	VALUE	1.59	VALUE	1.04	23	MGD		VALUE	N/A	N/A
g. Temperature (winter)	VALUE	25.5	VALUE	N/A	VALUE	N/A	10	°C		VALUE	N/A	N/A
h. Temperature (summer)	VALUE	30.0	VALUE	N/A	VALUE	N/A	13	°C		VALUE	N/A	N/A
i. pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	23	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUT- ANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)				
	a. BE- LIEVED PRE- SENT	b. BE- LIEVED AB- SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE	d. NO. OF ANAL- YSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL- YSES
			(1) CONCEN- TRATION	(2) MASS	(1) CONCEN- TRATION	(2) MASS					(1) CONCEN- TRATION	(2) Mass	
a. Bromide (24959-67-9)		X											
b. Chlorine, Total Residual		X											
c. Color		X											
d. Fecal Coliform		X											
e. Floride (16984-48-8)		X											
f. Nitrate Nitrite (as N)	X		158	1778	149	1589	848	23	mg/L	lbs/day	N/A	N/A	N/A

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRE-SENT	a. BELIEVED AB-SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						
g. Nitrogen, Total Organic (as N)	X		7.50	84.6	N/A	N/A	N/A	N/A	1	mg/L	lbs/day	N/A	N/A	N/A
h. Oil and Grease		X	<1.0	N/A	N/A	N/A	N/A	N/A	1	mg/L	lbs/day	N/A	N/A	N/A
i. Phosphorus (as P), Total (7723-14-0)	X		0.235	2.65	N/A	N/A	N/A	N/A	1	mg/L	lbs/day	N/A	N/A	N/A
I. Radioactivity														
(1) Alpha, Total		X												
(2) Beta Total		X												
(3) Radium Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO ₄) (14808-79-8)	X		268	3613	268	3613	151	1329	22	mg/L	lbs/day	N/A	N/A	N/A
l. Sulfide (as S)		X												
m. Sulfite (as SO ₃) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X												
p. Barium Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)		X												
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)		X												
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for the pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2c for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS			5. INTAKE (optional)				
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL. YES
					(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-0)	X													
2M. Arsenic, Total (7440-38-2)	X													
3M. Beryllium, Total (7440-41-7)	X													
4M. Cadmium, Total (7440-43-9)	X													
5M. Chromium, Total (7440-47-3)	X													
6M. Copper, Total (7440-50-8)	X			16	0.14	16	0.14	7.80	0.07	22	µg/L	N/A	N/A	N/A
7M. Lead, Total (7439-92-1)	X													
8M. Mercury, Total (7439-97-6)	X													
9M. Nickel, Total (7440-02-0)	X													
10M. Selenium, Total (7782-49-2)	X			<1.0	N/A	<1.0	N/A	<1.0	N/A	21	µg/L	N/A	N/A	N/A
11M. Silver, Total (7440-22-4)	X													
12M. Thallium, Total (7440-28-0)	X													
13M. Zinc, Total (7440-66-6)	X			404	4.96	404	4.96	161	1.45	22	µg/L	N/A	N/A	N/A
14M. Cyanide, Total (57-12-5)	X													
15M. Phenols, Total	X													
DIOXIN														
2,3,7,8-Tetra-Chlorodibenzo-P Dioxin (1764-01-6)	X													

See PPS Form for single sampling event results with detailed analysis description. (Form 2C has been used to report multiple sample events.)

CONTINUE FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)				
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	b. NO. OF ANALYSES		
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS		
GC/MS FRACTION - VOLATILE COMPOUNDS																
1V. Acrolein (107-02-8)	X			See PPS Form for all volatile compounds												
2V. Acrylonitrile (107-13-1)	X															
3V. Benzene (71-43-2)	X															
4V. Bis (Chloromethyl) Ether (542-88-1)	X															
5V. Bromoform (75-25-2)	X															
6V. Carbon Tetrachloride (56-23-5)	X															
7V. Chlorobenzene (108-90-7)	X															
8V. Chlorodipromomethane (124-48-1)	X															
9V. Chloroethane (75-00-3)	X															
10V. 2-Chloroethylvinyl Ether (110-75-8)	X															
11V. Chloroform (67-66-3)	X															
12V. Dichloropromomethane (75-27-4)	X															
13V. Dichlorodifluoromethane (75-71-8)	X															
14V. 1,1-Dichloroethane (75-34-3)	X															
15V. 1,2-Dichloroethane (107-06-2)	X															
16V. 1,1-Dichloroethylene (75-35-4)	X															
17V. 1,2-Dichloropropane (78-87-5)	X															
18V. 1,3-Dichloropropylene (542-75-6)	X															
19V. Ethylbenzene (100-41-4)	X															
20V. Methyl Bromide (74-83-9)	X															
21V. Methyl Chloride (74-87-3)	X															

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CONTINUED FROM PAGE V-4

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TEST-ING RE-QUIRED	b. BE-LIEVED PRE-SENT	c. BE-LIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCEN-TRATION (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCEN-TRATION (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCEN-TRATION (2) MASS		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCEN-TRATION (2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)												
22V. Methylene Chloride (75-09-2)	X											
23V. 1,1,2,2-Tetra-chloroethane (79-34-5)	X											
24V. Tetrachloro-ethylene (127-18-4)	X											
25V. Toluene (108-88-3)	X											
26V. 1,2-Trans-Dichloroethylene (156-60-5)	X											
27V. 1,1,1-Tri-chloroethane (71-55-6)	X											
28V. 1,1,2-Tri-chloroethane (79-00-5)	X											
29V. Trichloro-ethylene (79-01-6)	X											
30V. Trichloro-fluoromethane (75-69-4)	X											
31V. Vinyl Chloride (75-01-4)	X											
GC/MS FRACTION - ACID COMPOUNDS												
1A. 2-Chlorophenol (95-57-8)	X			See PPS Form for all acid compounds								
2A. 2,4-Dichloro-phenol (120-83-2)	X											
3A. 2,4-Dimethyl-phenol (105-67-9)	X											
4A. 4,6-Dinitro-O-Cresol (534-52-1)	X											
5A. 2,4-Dinitro-phenol (51-28-5)	X											
6A. 2-Nitrophenol (88-75-5)	X											
7A. 4-Nitrophenol (100-02-7)	X											
8A. p-Chloro-M-Cresol (59-50-7)	X											
9A. Pentachloro-phenol (87-86-5)	X											
10A. Phenol (108-95-2)	X											
11A. 2,4,6-Tri-chlorophenol (88-06-2)	X											

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. No. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION-BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X														
2B. Acenaphthylene (208-96-8)	X														
3B. Anthracene (120-12-7)	X														
4B. Benzidine (92-87-5)	X														
5B. Benzo (a) Anthracene (56-55-3)	X														
6B. Benzo (a) Pyrene (50-32-8)	X														
7B. 3,4-Benzofluoranthene (205-99-2)	X														
8B. Benzo (ghi) Perylene (191-24-2)	X														
9B. Benzo (k) Fluoranthene (207-08-9)	X														
10B. Bis (2-Chloroethoxy) Methane (111-91-1)	X														
11B. Bis (2-Chloroethyl) Ether (111-44-4)	X														
12B. Bis (2-Chloroisopropyl) Ether (102-60-1)	X														
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)	X														
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	X														
15B. Butyl Benzyl Phthalate (85-68-7)	X														
16B. 2-Chloronaphthalene (91-58-7)	X														
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)	X														
18B. Chrysene (218-01-9)	X														
19B. Dibenzo (a,h) Anthracene (53-70-3)	X														
20B. 1,2-Dichlorobenzene (95-50-1)	X														
21B. 1,3-Dichlorobenzene (541-73-1)	X														

See PPS Form for all base/neutral compounds

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CONTINUED FROM PAGE V-6

1. POLLUTANT AND GAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						
GC/MS FRACTION-BASE NEUTRAL COMPOUNDS (continued)													
22B. 1,4-Dichlorobenzene (106-46-7)	X												
23B. 3,3-Dichlorobenzidine (91-94-1)	X												
24B. Diethyl Phthalate (84-66-2)	X												
25B. Dimethyl Phthalate (131-11-3)	X												
26B. Di-N-Butyl Phthalate (84-74-2)	X												
27B. 2,4-Dinitrotoluene (121-14-2)	X												
28B. 2,6-Dinitrotoluene (606-20-2)	X												
29B. Di-N-Octyl Phthalate (117-84-0)	X												
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	X												
31B. Fluoranthene (206-44-0)	X												
32B. Fluorene (86-73-7)	X												
33B. Hexachlorobenzene (118-74-1)	X												
34B. Hexachlorobutadiene (87-68-3)	X												
35B. Hexachlorocyclopentadiene (77-47-4)	X												
36B. Hexachloroethane (67-72-1)	X												
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	X												
38B. Isophorone (78-59-1)	X												
39B. Naphthalene (91-20-3)	X												
40B. Nitrobenzene (98-5-3)	X												
41B. N-Nitrosodimethylamine (62-75-9)	X												
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X												

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)	
	a. TEST-ING RE-QUIRED	b. BE-LIEVED PRE-SENT	c. BE-LIEVED AB-SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		a. CONCENTRATION	b. MASS
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)											
43B. N-Nitro-sodiphenylamine (86-30-6)	X										
44B. Phenanthrene (85-01-8)	X										
45B. Pyrene (129-00-0)	X										
46B. 1,2,4-Tri-chlorobenzene (120-82-1)	X										
GC/MS FRACTION - PESTICIDES											
1P. Aldrin (309-00-2)	X										
2P. α-BHC (319-84-6)	X										
3P. β-BHC (319-85-7)	X										
4P. γ-BHC (58-89-9)	X										
5P. δ-BHC (319-86-8)	X										
6P. Chlordane (57-74-9)	X										
7P. 4,4'-DDT (50-29-3)	X										
8P. 4,4'-DDE (72-55-9)	X										
9P. 4,4'-DDD (72-54-8)	X										
10P. Dieldrin (60-57-1)	X										
11P. α-Endosulfan (115-29-7)	X										
12P. β-Endosulfan (115-29-7)	X										
13P. Endosulfan Sulfate (1031-07-8)	X										
14P. Endrin (72-20-8)	X										
15P. Endrin Aldehyde (7421-93-4)	X										
16P. Heptachlor (76-44-8)	X										

See PPS Form for all pesticide compounds

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CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		6. INTAKE (optional)		
	a. TESTING REQUIRED	b. BE-LIEVED PRE-SENT	c. BE-LIEVED AB-SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE	b. NO. OF ANAL- YSES
				(1) CONCEN-TRATION	(2) MASS	(1) CONCEN-TRATION	(2) MASS	(1) CONCEN-TRATION	(2) MASS					
GC/MS FRACTION-PESTICIDES (continued)														
17P. Heptachlor Epoxide (1024-57-3)	X													
18P. PCB-1242 (53469-21-9)	X													
19P. PCB-1254 (11097-69-1)	X													
20P. PCB-1221 (11104-28-2)	X													
21P. PCB-1232 (11141-16-5)	X													
22P. PCB-1248 (12672-29-6)	X													
23P. PCB-1260 (11096-82-5)	X													
24P. PCB-1016 (12674-11-2)	X													
25P. Toxaphene (8001-35-2)	X													

Outfall 002

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT				3. UNITS (specify if blank)			4. INTAKE (optional)		b. NO. OF ANALYSES
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				
a. Biochemical Oxygen Demand (BOD)	N/A	NA	NA	NA	N/A	N/A	N/A	mg/L	lbs/day	N/A
b. Chemical Oxygen Demand (COD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/L	lbs/day	N/A
c. Total Organic Carbon (TOC)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/L	lbs/day	N/A
d. Total Suspended Solids (TSS)	41.0	171	41.0	171	24.0	58.0	2	mg/L	lbs/day	N/A
e. Ammonia (as N)	188	784	188	784	118	667	2	mg/L	lbs/day	N/A
f. Flow	VALUE	0.500	VALUE	0.500	VALUE	0.29	2	MGD	VALUE	N/A
g. Temperature (winter)	VALUE	N/A	VALUE	N/A	VALUE	N/A	N/A	°C	VALUE	N/A
h. Temperature (summer)	VALUE	N/A	VALUE	N/A	VALUE	N/A	N/A	°C	VALUE	N/A
i. pH	MINIMUM 4.8	MAXIMUM 7.3	MINIMUM N/A	MAXIMUM N/A	VALUE	N/A	2	STANDARD UNITS	VALUE	N/A

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT (if available)				4. UNITS		5. INTAKE (optional)		b. NO. OF ANALYSES
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					
a. Bromide (24959-67-9)		X									
b. Chlorine, Total Residual		X									
c. Color		X									
d. Fecal Coliform		X									
e. Fluoride (16984-48-8)		X									
f. Nitrate Nitrite (as N)	X		215	897	897	145	874	2	mg/L	lbs/day	N/A

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. BE-LIEVED PRE-SENT	a. BE-LIEVED AB-SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		NO. OF ANAL-YSES
			(1) CONCEN-TRATION	(2) MASS	(1) CONCEN-TRATION	(2) MASS	(1) CONCEN-TRATION	(2) MASS						
g. Nitrogen, Total Organic (as N)		X												
h. Oil and Grease	X		1.1	4.59	1.1	4.59	0.8	1.93	2	mg/L	lbs/day	N/A	N/A	N/A
i. Phosphorus (as P), Total (7723-14-0)		X												
i. Radioactivity														
(1) Alpha, Total		X												
(2) Beta Total		X												
(3) Radium Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO ₄) (14808-79-8)	X		190	792	190	792	144	348	2	mg/L	lbs/day	N/A	N/A	N/A
l. Sulfide (as S)		X												
m. Sulfite (as SO ₃) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X												
p. Barium Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)		X												
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)		X												
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for the pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS			5. INTAKE (optional)		b. NO. OF ANAL. YSES	
	a. TESTING REQUIRED	b. BELIEVED PRE-SENT	c. BELIEVED AB-SENT	a. MAXIMUM DAILY VALUE	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		
					(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION		(2) MASS
METALS, CYANIDE, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-0)	X													
2M. Arsenic, Total (7440-38-2)	X													
3M. Beryllium, Total (7440-41-7)	X													
4M. Cadmium, Total (7440-43-9)	X													
5M. Chromium, Total (7440-47-3)	X													
6M. Copper, Total (7440-50-8)	X			19.0	0.079	19.0	0.079	15.5	0.037	2	lbs/day	N/A	N/A	N/A
7M. Lead, Total (7439-92-1)	X			5.6	0.023	5.6	0.023	4.1	0.010	2	lbs/day	N/A	N/A	N/A
8M. Mercury, Total (7439-97-6)	X													
9M. Nickel, Total (7440-02-0)	X													
10M. Selenium, Total (7782-49-2)	X			<5.0	N/A	<5.0	N/A	<5.0	N/A	2	lbs/day	N/A	N/A	N/A
11M. Silver, Total (7440-22-4)	X													
12M. Thallium, Total (7440-28-0)	X													
13M. Zinc, Total (7440-66-6)	X			206	0.86	206	0.86	194	0.47	2	lbs/day	N/A	N/A	N/A
14M. Cyanide, Total (57-12-5)	X													
15M. Phenols, Total	X													
DIOXIN														
2,3,7,8-Tetra-Chlorodibenzo-P Dioxin (1764-01-6)	X													

CONTINUE FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS			5. INTAKE (optional)				
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	X														
2V. Acrylonitrile (107-13-1)	X														
3V. Benzene (71-43-2)	X														
4V. Bis (Chloromethyl) Ether (542-88-1)	X														
5V. Bromoform (75-25-2)	X														
6V. Carbon Tetrachloride (56-23-5)	X														
7V. Chlorobenzene (108-90-7)	X														
8V. Chlorodipromethane (124-48-1)	X														
9V. Chloroethane (75-00-3)	X														
10V. 2-Chloroethylvinyl Ether (110-75-8)	X														
11V. Chloroform (67-66-3)	X														
12V. Dichlorodipromethane (75-27-4)	X														
13V. Dichlorodifluoromethane (75-71-8)	X														
14V. 1,1-Dichloroethane (75-34-3)	X														
15V. 1,2-Dichloroethane (107-06-2)	X														
16V. 1,1-Dichloroethylene (75-35-4)	X														
17V. 1,2-Dichloropropane (78-87-5)	X														
18V. 1,3-Dichloropropane (542-75-6)	X														
19V. Ethylbenzene (100-41-4)	X														
20V. Methyl Bromide (74-83-9)	X														
21V. Methyl Chloride (74-87-3)	X														

EPA I.D. NUMBER (copy from item 1 of Form 1)

AR0000752

OUTFALL NUMBER

CONTINUED FROM PAGE V-4

002

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS			b. NO. OF ANALYSES	
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS		
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)														
22V. Methylene Chloride (75-09-2)	X													
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X													
24V. Tetrachloroethylene (127-18-4)	X													
25V. Toluene (108-88-3)	X													
26V. 1,2-Trans-Dichloroethylene (156-60-5)	X													
27V. 1,1,1-Trichloroethane (71-55-6)	X													
28V. 1,1,2-Trichloroethane (79-00-5)	X													
29V. Trichloroethylene (79-01-6)	X													
30V. Trichlorofluoromethane (75-69-4)	X													
31V. Vinyl Chloride (75-01-4)	X													
GC/MS FRACTION - ACID COMPOUNDS														
1A. 2-Chlorophenol (95-57-8)	X													
2A. 2,4-Dichlorophenol (120-83-2)	X													
3A. 2,4-Dimethylphenol (105-67-9)	X													
4A. 4,6-Dinitro-O-Cresol (534-52-1)	X													
5A. 2,4-Dinitrophenol (51-28-5)	X													
6A. 2-Nitrophenol (88-75-5)	X													
7A. 4-Nitrophenol (100-02-7)	X													
8A. P-Chloro-M-Cresol (59-50-7)	X													
9A. Pentachlorophenol (87-86-5)	X													
10A. Phenol (108-95-2)	X													
11A. 2,4,6-Trichlorophenol (88-06-2)	X													

CONTINUE FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (If available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)		6. No. OF ANALYSES
	a. TEST-ING REQUIRED	b. BE-LIEVED PRE-SENT	c. BE-LIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (If available)		c. LONG TERM AVRG. VALUE (If available)		a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		
	(1) CONCEN-TRATION	(2) MASS	(1) CONCEN-TRATION	(2) MASS	(1) CONCEN-TRATION	(2) MASS	(1) CONCEN-TRATION	(2) MASS	(1) CONCEN-TRATION	(2) MASS	(1) CONCEN-TRATION	(2) MASS		
GC/MS FRACTION-BASE/NEUTRAL COMPOUNDS														
1B. Acenaphthene (83-32-9)	X													
2B. Acenaphthylene (208-96-8)	X													
3B. Anthracene (120-12-7)	X													
4B. Benzidine (92-87-5)	X													
5B. Benzo (a) Anthracene (56-55-3)	X													
6B. Benzo (a) Pyrene (50-32-8)	X													
7B. 3,4-Benzo-fluoranthene (205-99-2)	X													
8B. Benzo (ghi) Perylene (191-24-2)	X													
9B. Benzo (k) Fluoranthene (207-08-9)	X													
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)	X													
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)	X													
12B. Bis (2-Chloro-isopropyl) Ether (102-60-1)	X													
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)	X													
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	X													
15B. Butyl Benzyl Phthalate (85-68-7)	X													
16B. 2-Chloro-naphthalene (91-58-7)	X													
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)	X													
18B. Chrysene (218-01-9)	X													
19B. Dibenzo (a,h) Anthracene (53-70-3)	X													
20B. 1,2-Dichloro-benzene (95-50-1)	X													
21B. 1,3-Dichloro-benzene (541-73-1)	X													

EPA I.D. NUMBER (copy from item 1 of Form 1) **AR0000752** **002** **OUTFALL NUMBER**

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)	
	a. TEST-ING RE-QUIRED	b. BE-LIEVED PRE-SENT	c. BE-LIEVED AB-SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRS. VALUE (if available)		a. LONG TERM AVERAGE VALUE	b. NO. OF ANAL-YSES
				(1) CONCEN-TRATION	(2) MASS	(1) CONCEN-TRATION	(2) MASS	(1) CONCEN-TRATION	(2) MASS	(1) CONCEN-TRATION	(2) MASS
GC/MS FRACTION-BASE NEUTRAL COMPOUNDS											
<i>(continued)</i>											
22B. 1,4-Dichloro-benzene (106-46-7)	X										
23B. 3,3-Dichloro-benzidine (91-94-1)	X										
24B. Diethyl Phthalate (84-66-2)	X										
25B. Dimethyl Phthalate (131-11-3)	X										
26B. Di-N-Butyl Phthalate (84-74-2)	X										
27B. 2,4-Dinitro-toluene (121-14-2)	X										
28B. 2,6-Dinitro-toluene (606-20-2)	X										
29B. Di-N-Octyl Phthalate (117-84-0)	X										
30B. 1,2-Diphenyl-hydrazine (as Azo-benzene) (122-66-7)	X										
31B. Fluoranthene (206-44-0)	X										
32B. Fluorene (86-73-7)	X										
33B. Hexachlorobenzene (118-74-1)	X										
34B. Hexa-chlorobutadiene (87-68-3)	X										
35B. Hexachloro-cyclopentadiene (77-47-4)	X										
36B. Hexachloro-ethane (67-72-1)	X										
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	X										
38B. Isophorone (78-59-1)	X										
39B. Naphthalene (91-20-3)	X										
40B. Nitrobenzene (98-5-3)	X										
41B. N-Nitro-sodimethylamine (62-75-9)	X										
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X										

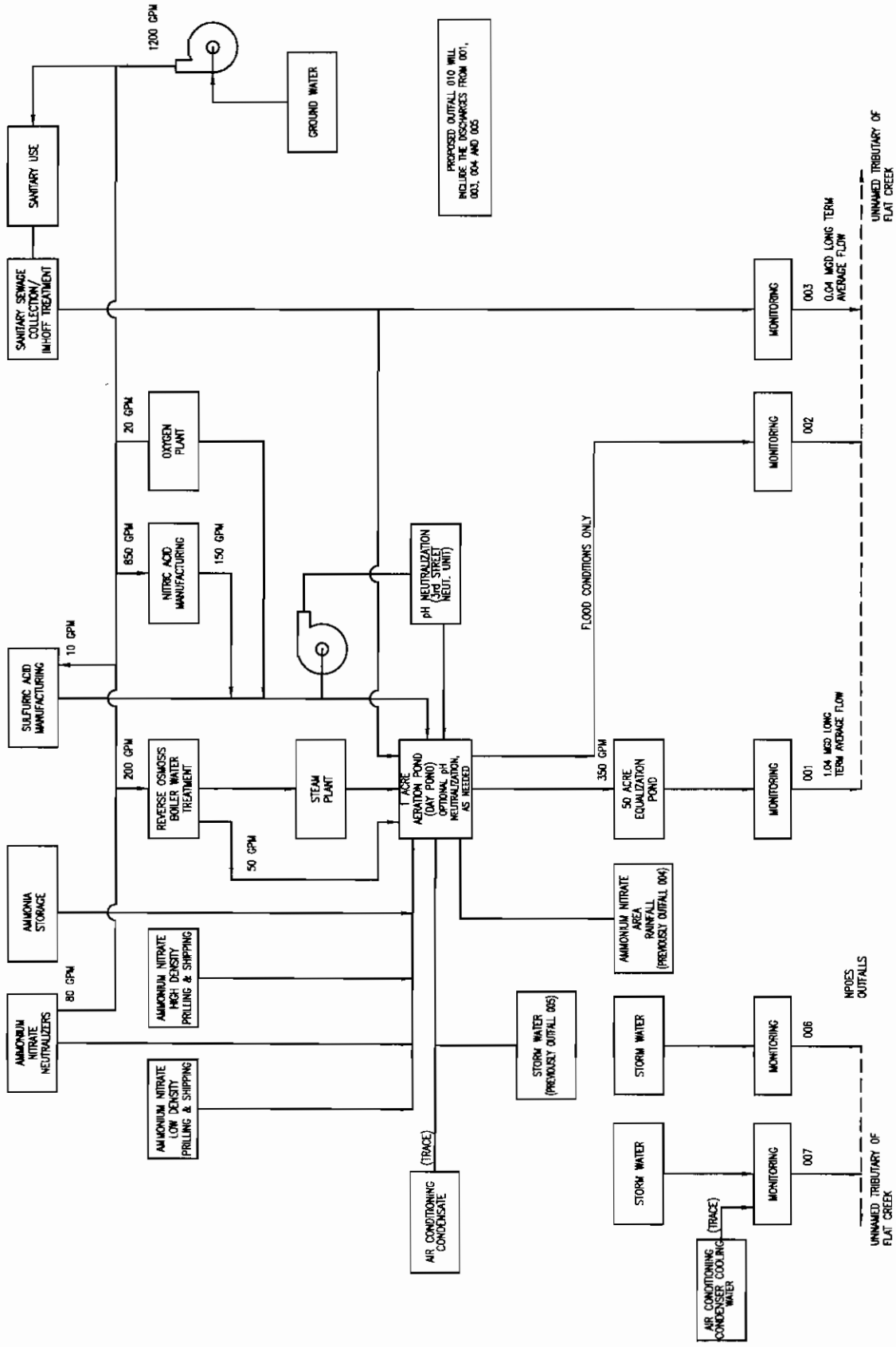
CONTINUE FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)		b. NO. OF ANALYSES	d. NO. OF ANALYSES		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		a. CONCENTRATION	b. MASS			(1) CONCENTRATION	(2) MASS
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				
GC/MS FRACTION - BASENEUTRAL COMPOUNDS															
43B. N-Nitrosodiphenylamine (86-30-6)	X														
44B. Phenanthrene (85-01-8)	X														
45B. Pyrene (129-00-0)	X														
46B. 1,2,4-Trichlorobenzene (120-82-1)	X														
GC/MS FRACTION - PESTICIDES															
1P. Aldrin (309-00-2)	X														
2P. α-BHC (319-84-6)	X														
3P. β-BHC (319-85-7)	X														
4P. γ-BHC (58-89-9)	X														
5P. δ-BHC (319-86-8)	X														
6P. Chlordane (57-74-9)	X														
7P. 4,4'-DDT (50-29-3)	X														
8P. 4,4'-DDE (72-55-9)	X														
9P. 4,4'-DDD (72-54-8)	X														
10P. Dieldrin (60-57-1)	X														
11P. α-Endosulfan (115-29-7)	X														
12P. β-Endosulfan (115-29-7)	X														
13P. Endosulfan Sulfate (1031-07-8)	X														
14P. Endrin (72-20-6)	X														
15P. Endrin Aldehyde (7421-93-4)	X														
16P. Heptachlor (76-44-8)	X														

EPA I.D. NUMBER (copy from Item 1 of Form 1) **AR0000752** **002** **OUTFALL NUMBER**

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BE- LIEVED PRE- SENT	c. BE- LIEVED AB- SENT	a. MAXIMUM DAILY VALUE (1) CONCEN- TRATION (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCEN- TRATION (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCEN- TRATION (2) MASS		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCEN- TRATION (2) MASS	b. NO. OF ANAL- YSES
GC/MS FRACTION-PESTICIDES (continued)												
17P. Heptachlor Epoxide (1024-57-3)	X											
18P. PCB-1242 (53469-21-9)	X											
19P. PCB-1254 (11097-69-1)	X											
20P. PCB-1221 (11104-28-2)	X											
21P. PCB-1232 (11141-16-5)	X											
22P. PCB-1248 (12672-29-6)	X											
23P. PCB-1260 (11096-92-5)	X											
24P. PCB-1016 (12674-11-2)	X											
25P. Toxaphene (8001-35-2)	X											



PROPOSED OUTFALL 010 WILL INCLUDE THE DISCHARGES FROM 001, 003, 004 AND 005

NOTE : FLOWS INDICATED ARE FOR DRY WEATHER CONDITIONS. STORM WATER FLOWS ARE NOT SHOWN.

2042.010.100

Schematic of Water Flow
 EL DORADO CHEMICAL COMPANY
 EL DORADO, ARKANSAS

Approved by: RBM	Project No.: 2042-99-010
Checked by: SKH	Date: 12/07/2006
Drawn by: RW	Scale: N/A



UNNAMED TRIBUTARY OF FLAT CREEK

MPDES OUTFALLS

UNNAMED TRIBUTARY OF FLAT CREEK

FLOOD CONDITIONS ONLY

AIR CONDITIONING CONDENSER COOLING WATER (TRACE)

AIR CONDITIONING CONDENSATE (TRACE)

STORM WATER (PREVIOUSLY OUTFALL 005)

AMMONIUM NITRATE AREA RAINFALL (PREVIOUSLY OUTFALL 004)

50 ACRE EQUALIZATION POND

1 ACRE AERATION POND (DAY POND) OPTIONAL pH NEUTRALIZATION, AS NEEDED

pH NEUTRALIZATION (100 STREET WEST UNIT)

GROUND WATER

SANITARY SEWAGE COLLECTION/ IN-OFF TREATMENT

SULFURIC ACID MANUFACTURING

AMMONIUM NITRATE NEUTRALIZERS

AMMONIUM NITRATE LOW DENSITY PRILLING & SHIPPING

AMMONIUM NITRATE HIGH DENSITY PRILLING & SHIPPING

AMMONIA STORAGE

REVERSE OSMOSIS BOILER WATER TREATMENT

NITRIC ACID MANUFACTURING

OXYGEN PLANT

SANITARY USE

STORM WATER

STORM WATER

STORM WATER

STORM WATER

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**ARKANSAS Department of Environmental Quality
PPS REQUIREMENTS**

1. Name of facility:
El Dorado Chemical Company
2. Name, address and telephone number of laboratory:
Arkansas Analytical
11701 Hwy I-30 Little Rock, AR 72209
3. Is the lab certified by the State of Arkansas? Yes X No _____
4. What are the certification dates?
Issued date 10/30/06 Expire date 10/30/07
5. Is the laboratory certified for all the parameters?
Yes X No _____ (Explain)

6. Date and time of samples collected:
9/20/06 (1230)
7. Date and time samples were received in the laboratory:
9/21/06 (1006)
8. Sample location (Outfall No.):
Outfall 001
9. Samples collected by
Name Kyle Hathcote
Title Environmental Scientist
Telephone (501) 847-7077
10. I certify under penalty of law that this document and all attachments were prepared under my direction of 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 submitted is, to the best of my knowledge and belief, 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.
- | | |
|--------------------------------|------------------------|
| <u>Greg Withrow</u> | <u>General Manager</u> |
| Printed Name of Person Signing | Title |
| <u><i>Greg Withrow</i></u> | <u>12/20/06</u> |
| Signature | Date Signed |
- List all attachments to this form:
Outfall 001 Attachment

PPS ATTACHMENT 1

Outfall 001

ATTACHMENT 1

METALS AND CYANIDE		FOR OFFICE USE ONLY	LABORATORY ANALYSIS				RECOMMENDED EPA TEST METHOD	
			RESULTS (µg/l)	EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	REQUIRED MQL (µg/l)	EPA APPROVED TEST METHOD	
1.	Antimony (Total) ¹ , Recoverable		ND	200.7	60	60	200.7	
2.	Arsenic (Total) ¹ , Recoverable		ND	200.7	10	10	200.7	
3.	Beryllium (Total) ¹ , Recoverable		ND	200.7	5	5	200.7	
4.	Cadmium (Total) ² , Recoverable		ND	200.7	1	1	213.2	
5.	Chromium (Total) ¹ , Recoverable		ND	200.7	10	10	200.7	
7.	Chromium (6+) ¹ , Recoverable		ND	200.7	10	10	218.4	
8.	Copper (Total) ² , Recoverable		ND	200.7	10	10	220.2	
9.	Lead (Total) ² , Recoverable		ND	200.7	5	5	239.2	
10.	Mercury (Total) ¹ , Recoverable		ND	245.1	0.2	0.2	245.1	
12.	Nickel (Total) ² , [Freshwater]		ND	200.7	40	40	200.7	
13.	Selenium (Total) ¹ , Recoverable		ND	270.2	5	5	270.2	
14.	Silver (Total) ² , Recoverable		ND	272.2	2	2	272.2	
15.	Thallium (Total) ¹ , Recoverable		ND	279.2	10	10	279.2	
16.	Zinc (Total) ¹ , Recoverable		ND	200.7	20	20	200.7	
129.	Phenols, Total Recoverable		ND	420.1	5	5	420.1	
17.	Cyanide (Total) ¹ , Recoverable		ND	335.2	20	20	335.2	

ATTACHMENT 1

		LABORATORY ANALYSIS				
		FOR OFFICE USE ONLY	RESULTS (µg/l)	EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	
DIOXIN			ND	625	0.00001	
18. 2,3,7,8-Tetrachloro-debenzo-p-dioxin (TCDD) ³						1613

ATTACHMENT 1

VOLATILE COMPOUNDS		FOR OFFICE USE ONLY	LABORATORY ANALYSIS				DATE RECEIVED
			RESULTS (µg/l)	EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	REMARKS	DATE RECEIVED
19.	Acrolein ⁴		ND	624	50		624
20.	Acrylonitrile ⁴		ND	624	50		624
21.	Benzene ⁴		ND	624	10		624
22.	Bromoform ⁵		ND	624	10		624
23.	Carbon Tetrachloride ⁵		ND	624	10		624
24.	Chlorobenzene ⁵		ND	624	10		624
25.	Chlorodibromomethane ⁵		ND	624	10		624
26.	Chloroethane ⁶		ND	624	50		624
27.	2-Chloroethyl vinyl ether ⁴		ND	624	10		624
28.	Chloroform ⁵		ND	624	10		624
29.	Dichlorobromomethane ⁵		ND	624	10		624
30.	1,1-Dichloroethane ⁵		ND	624	10		624
31.	1,2-Dichloroethane ⁵		ND	624	10		624
32.	1,1-Dichloroethylene ⁵		ND	624	10		624
33.	1,2-Dichloropropane ⁵		ND	624	10		624
34.	1,3-Dichloropropylene ⁵		ND	624	10		624
35.	Ethylbenzene ⁵		ND	624	10		624
36.	Methyl Bromide [Bromomethane] ⁶		ND	624	50		624
37.	Methyl Chloride [Chloromethane] ⁶		ND	624	50		624
38.	Methylene Chloride ⁵		ND	624	20		624
39.	1,1,2,2-Tetrachloroethane ⁵		ND	624	10		624
40.	Tetrachloroethylene ⁵		ND	624	10		624
41.	Toluene ⁵		ND	624	10		624
42.	1,2-trans-Dichloroethylene ⁵		ND	624	10		624
43.	1,1,1-Trichloroethane ⁵		ND	624	10		624
44.	1,1,2-Trichloroethane ⁵		ND	624	10		624
45.	Trichloroethylene ⁵		ND	624	10		624
46.	Vinyl Chloride ⁵		ND	624	10		624

ATTACHMENT 1

ACID COMPOUNDS		FOR OFFICE USE ONLY	LABORATORY ANALYSIS			
			RESULTS (µg/l)	EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	
47.	2-Chlorophenol ⁵		ND	625	10	
48.	2,4-Dichlorophenol ⁵		ND	625	10	
49.	2,4-Dimethylphenol ⁷		ND	625	10	
50.	4,6-Dinitro-o-Cresol [2 methyl 4,6-dinitrophenol] ⁸		ND	625	50	
51.	2,4-Dinitrophenol ⁵		ND	625	50	
52.	2-Nitrophenol ⁶		ND	625	20	
53.	4-Nitrophenol ⁵		ND	625	50	
54.	P-Chloro-m-Cresol [4 chloro-3-methylphenol] ⁵		ND	625	10	
55.	Pentachlorophenol ⁵		ND	625	50	
56.	Phenol ⁵		ND	625	10	625
57.	2,4,6-Trichlorophenol ⁵		ND	625	10	625

ATTACHMENT 1

BASE/NEUTRAL COMPOUNDS		LABORATORY ANALYSIS			
COMPOUND	RESULTS (µg/l)	EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	REMARKS	
58. Acenaphthene ⁵	ND	625	10	625	
59. Acenaphthylene ⁵	ND	625	10	625	
60. Anthracene ⁵	ND	625	10	625	
61. Benzidine ⁴	ND	625	50	625	
62. Benzo(a)anthracene ⁵	ND	625	10	625	
63. Benzo(a)pyrene ⁵	ND	625	10	625	
64. 3,4-Benzofluoranthene ⁵	ND	625	10	625	
65. Benzo(ghi)perylene ⁵	ND	625	20	625	
66. Benzo(k)fluoranthene ⁵	ND	625	10	625	
67. Bis(2-chloroethoxy) methane ⁵	ND	625	10	625	
68. Bis(2-chloroethyl) ether ⁵	ND	625	10	625	
69. Bis(2-chloroisopropyl) ether ⁵	ND	625	10	625	
70. Bis(2-ethylhexyl) phthalate ⁵	ND	625	10	625	
71. 4-Bromophenyl phenyl ether ⁵	ND	625	10	625	
72. Butyl benzyl phthalate ⁵	ND	625	10	625	
73. 2-Chloronaphthalene ⁵	ND	625	10	625	
74. 4-chlorophenyl phenyl ether ⁵	ND	625	10	625	
75. Chrysene ⁵	ND	625	10	625	
76. Dibenzo (a,h) anthracene ⁶	ND	625	20	625	
77. 1,2-Dichlorobenzene ⁵	ND	625	10	625	
78. 1,3-Dichlorobenzene ⁵	ND	625	10	625	
79. 1,4-Dichlorobenzene ⁵	ND	625	10	625	
80. 3,3'-Dichlorobenzidine ⁶	ND	625	50	625	
81. Diethyl Phthalate ⁵	ND	625	10	625	
82. Dimethyl Phthalate ⁵	ND	625	10	625	
83. Di-n-Butyl Phthalate ⁵	ND	625	10	625	
84. 2,4-Dinitrotoluene ⁵	ND	625	10	625	
85. 2,6-Dinitrotoluene ⁵	ND	625	10	625	
86. Di-n-octyl Phthalate ⁵	ND	625	10	625	

ATTACHMENT 1

BASE/NEUTRAL COMPOUNDS	FOR OFFICE USE ONLY	LABORATORY ANALYSIS				REQUIREMENT (PPM)
		RESULTS (µg/l)	EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)		
87. 1,2-diphenylhydrazine ⁴		ND	625	20	20	
88. Fluoranthene ⁵		ND	625	10	10	
89. Fluorene ⁵		ND	625	10	10	
90. Hexachlorobenzene ⁵		ND	625	10	10	
91. Hexachlorobutadiene ⁵		ND	625	10	10	
92. Hexachlorocyclopentadiene ⁵		ND	625	10	10	
93. Hexachloroethane ⁶		ND	625	20	20	
94. Indeno (1,2,3-cd) pyrene ⁶ (2,3-o-phenylene pyrene)		ND	625	20	20	
95. Isophorone ⁵		ND	625	10	10	
96. Naphthalene ⁵		ND	625	10	10	
97. Nitrobenzene ⁵		ND	625	10	10	
98. N-nitrosodimethylamine ⁶		ND	625	50	50	
99. N-nitrosodi-n-propylamine ⁶		ND	625	20	20	
100. N-nitrosodiphenylamine ⁶		ND	625	20	20	
101. Phenanthrene ⁵		ND	625	10	10	
102. Pyrene ⁵		ND	625	10	10	
103. 1,2,4-Trichlorobenzene ⁵		ND	625	10	10	

ATTACHMENT 1

PESTICIDES		LABORATORY ANALYSIS			
FOR OFFICE USE ONLY		RESULTS (µg/l)	EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	
104.	Aldrin ⁵	ND	608	0.05	
105.	Alpha-BHC ⁶	ND	608	0.05	
106.	Beta-BHC ⁶	ND	608	0.05	
107.	Gamma-BHC ⁶	ND	608	0.05	
108.	Delta-BHC ⁶	ND	608	0.05	
109.	Chlodane ⁵	ND	608	0.2	
110.	4,4'-DDT ⁶	ND	608	0.1	
111.	4,4'-DDE (p,p-DDX) ⁵	ND	608	0.1	
112.	4,4'-DDD 9(p,p-TDE) ⁵	ND	608	0.1	
113.	Dieldrin ⁵	ND	608	0.1	
114.	Alpha-endosulfan ⁵	ND	608	0.1	
115.	Beta-endosulfan ⁵	ND	608	0.1	
116.	Endosulfan sulfate ⁵	ND	608	0.1	
117.	Endrin ⁵	ND	608	0.1	
118.	Endrin aldehyde ⁵	ND	608	0.1	
119.	Heptachlor ⁵	ND	608	0.05	
120.	Heptachlor epoxide ⁵ (BHC-hexachlorocyclohexane)	ND	608	1.0	
130.	Chlorpyrifos	ND	608	0.07	
121.	PCB-1242 ⁵	ND	608	1.0	
122.	PCB-1254	ND	608	1.0	
123.	PCB-1221	ND	608	1.0	
124.	PCB-1232	ND	608	1.0	
125.	PCB-1248	ND	608	1.0	
126.	PCB-1260	ND	608	1.0	
127.	PCB-1016	ND	608	1.0	
128.	Toxaphene ⁵	ND	608	5.0	

Please print or type in the unshaded areas only.

FORM
2E
NPDES

EPA Facilities Which Do Not Discharge Process Wastewater

Receiving Waters

For this outfall, list the latitude and longitude, and the name of the receiving water(s).

OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			RECEIVING WATER (name)
003	33	15	38	92	41	07	Unnamed tributary to Flat Creek

II. Discharge Date (if a new discharger, the date you expect to begin discharging)

N/A

III. Type of Waste

A. Check the box(es) indicating the general type(s) of wastes discharged.

- Sanitary Wastes
 Restaurant or Cafeteria Wastes
 Noncontact Cooling Water
 Other Nonprocess Wastewater (Identify)

B. If any cooling water additives are used, list them here. Briefly describe their composition if this information is available.

None

IV. Effluent Characteristics

- A. Existing Sources - Provide measurements for the parameters listed in the left-hand column below, unless waived by the permitting authority (see instructions).
- B. New Dischargers - Provide estimates for the parameters listed in the left-hand column below, unless waived by the permitting authority. Instead of the number of measurements taken, provide the source of estimated values (see instructions).

Pollutant or Parameter	(1) Maximum Daily Value (include units)		(2) Average Daily Value (last year) (include units)		(3) Number of Measurements Taken (last year)	(4) Source of Estimate (if new discharger)
	Mass	Concentration	Mass	Concentration		
Biochemical Oxygen Demand (BOD)	2.5 lbs/day	7.3 mg/L	1.81 lbs/day	3.24 mg/L	4	N/A
Total Suspended Solids (TSS)	4.1 lbs/day	12.0 mg/L	1.90 lbs/day	4.90 mg/L	4	N/A
Fecal Coliform (if believed present or if sanitary waste is discharge)	N/A	22.0 N/100 ml	N/A	6.25 N/100 ml	4	N/A
Total Residual Chlorine (if chlorine is used)	N/A	N/A	N/A	N/A	N/A	N/A
Oil and Grease	N/A	<1.0 mg/L	N/A	N/A	1	N/A
Chemical oxygen demand (COD)	N/A	N/A	N/A	N/A	N/A	N/A
Total organic carbon (TOC)	N/A	N/A	N/A	N/A	N/A	N/A
Ammonia (as N)	0.39 lbs/day	1.16 mg/L	0.39 lbs/day	0.72 mg/L	3	N/A
Discharge Flow	Value 0.05 MGD		Value 0.04 MGD		10	N/A
pH (give range)	Value 7.6 - 8.0		Value 6.9 - 7.3		10	N/A
Temperature (Winter)	Ambient °C		Ambient °C		N/A	N/A
Temperature (Summer)	26.3 °C		26.3 °C		1	N/A

*If noncontact cooling water is discharged

Please print or type in the unshaded areas only.

FORM
2F
NPDESUnited States Environmental Protection Agency
Washington, DC 20460**Application For Permit To Discharge Storm Water
Discharges Associated with Industrial Activity**

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-233, U.S. Environmental Protection Agency, 401 M St., SW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (name)
001	33	15	32	92	41	12	Unnamed Tributary to Flat Creek
002	33	15	48	92	41	24	Unnamed Tributary to Flat Creek
006	33	16	03	92	41	02	Unnamed Tributary to Flat Creek
007	33	16	11	92	41	16	Unnamed Tributary to Flat Creek
010	33	17	22	92	28	05	(proposed) Ouachita River

II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application: This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

Identification of Conditions, Agreements, Etc.	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	number	source of discharge		a. req.	b. proj.
CAO LIS 02-059	001	process, storm water	Compliance Schedule	8/1/07	8/1/07
	002	process, storm water			
	003	sanitary			
	004	storm water			
	005	storm water			
	006	storm water			
	007	storm water			

B. You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage areas of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which receive storm water discharges from the facility.

IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

OUTFALL NUMBER	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	OUTFALL NUMBER	Area of Impervious Surface (provide units)	Total Area Drained (provide units)
001	19.3 acres	90 acres (plant area only)			
002	19.3 acres	90 acres (plant area only)			
010	19.3 acres	90 acres (plant area only)			
006	1.0 acres	12 acres (plant area only)			
007	4.7 acres	20 acres (plant area only)			

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas; and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

Storm water runoff from any material stored or temporarily disposed of in the Outfall 001 drainage basin will be treated through EDCC's treatment system (see Section C. below). In general, significant materials (raw and finished product) are not stored or disposed of in such a manner to allow exposure to storm water. Transfer practices for ammonium nitrate do include: 1) cleaning, or scraping of residual ammonium nitrate from rail car floors through hoppers located on the bottom of the rail cars; 2) Removal of excess ammonium nitrate from railcars that are over filled; and 3) Bulk warehouse dump truck spillage. These cases might be considered temporary storage of final product with exposure to storm water, and are located within the storm water drainage basins 006 and 007. In case 1), stainless steel pans are usually placed below the hoppers to collect scraped ammonium nitrate. In cases 2) and 3), spills from these operations are typically cleaned up immediately following the spill.


Pesticides, soil conditioners, and fertilizers are not used at the facility. Herbicides are occasionally used in spot applications.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
001	Neutralization unit, unit, followed by a 1-acre aeration pond, followed by a 50-acre equalization pond	2K, 3B, 3G
002	Neutralization unit, unit, followed by a 1-acre aeration pond	2K, 3B
010	Neutralization unit, unit, followed by a 1-acre aeration pond, followed by a 50-acre equalization pond	2K, 3B, 3G
006	None	N/A
007	None	N/A

V. Nonstorm Water Discharges

A. I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of nonstorm water discharges, and that all nonstorm water discharges from these outfall(s) are identified in either an accompanying Form 2C or Form 2E application for the outfall.

Name and Official Title (type or print)	Signature	Date Signed
Greg Withrow General Manager		12/29/06

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

The site has been evaluated using visual observation of process areas, ditches, and storm water drainage piping during dry weather conditions and are identified in the SWPPP to be authorized under the permit (NPDES Permit No. AR0000752)

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

No reportable spills in last 3 years.

AR0000752

CONTINUED FROM PAGE 2

VII. Discharge Information

A, B, C & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided. Tables VII-A, VII-B, and VII-C are included on separate sheets numbered VII-1 and VII-2.

E. Potential discharges not covered by analysis - is any toxic pollutant listed in table 2F-2, 2F-3 or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

 Yes (list all such pollutants below)

 No (go to Section IX)

All known potential pollutants listed in Tables 2F-2, 2F-3 and 2F-4 and either processed or manufactured on-site have been listed in VII, A-C, with analysis results, except for parameters which are contained in water treatment chemicals for cooling towers and boilers.

VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

 Yes (list all such pollutants below)

 No (go to Section IX)

Outfalls 001 & 002 – Monthly Chronic Biomonitoring as required by permit.

Outfalls 004,005, 006 & 007 – Acute Biomonitoring as required by permit

See Form 2F Attachment

IX. Contract Analysis Information

Were any of the analysis reported in item VII performed by a contract laboratory or consulting firm?

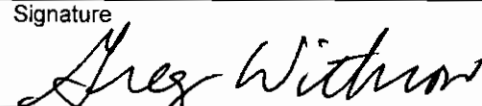
 Yes (list the name, address, and telephone number of, and pollutants analyzed by each such laboratory or firm below)

 No (go to Section X)

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
Arkansas Analytical	11701 Hwy I-30 Little Rock, AR 72209	(501) 455-3233	All

X. Certification

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

A. Name & Official Title (type or print)	B. Area Code and Phone No.
Greg Withrow General Manager	(870) 863-1400
C. Signature	D. Date Signed
	12/20/06

Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
Cadmium	0.002 mg/L	0.001 mg/L			1	Unknown
Lead	0.013 mg/L	0.024 mg/L			1	Unknown
Selenium	0.001 mg/L	0.001 mg/L			1	Unknown
Zinc	0.363 mg/L	0.483 mg/L			1	Unknown

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)
10/25/06	420	1.17	120	0.56 mgd	N/A

7. Provide a description of the method of flow measurement or estimate.

Outfall 006 flow is estimated by calculations utilizing area and rainfall.

VII. Discharge Information (Continued from page 3 of Form 2F)

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
Oil and Grease	0.5 mg/L	N/A	N/A	N/A	1	Unknown
Biological Oxygen Demand (BOD5)	2.06 mg/L	22.3 mg/L	N/A	N/A	1	Unknown
Chemical Oxygen Demand (COD)	32.5 mg/L	68.3 mg/L	N/A	N/A	1	Unknown
Total Suspended Solids (TSS)	7.2 mg/L	22 mg/L	N/A	N/A	1	Unknown
Total Nitrogen	21.3 mg/L	15.3 mg/L	N/A	N/A	1	Unknown
Total Phosphorus	0.04 mg/L	0.049 mg/L	N/A	N/A	1	Unknown
pH	Minimum	Maximum 6.93	Minimum	Maximum	1	Unknown

B. List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number Of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
Ammonia-N	36.1 mg/L	28.8 mg/L	N/A	N/A	1	Unknown
Nitrate-N	162 mg/L	133 mg/L	N/A	N/A	1	Unknown
Sulfates	83.6 mg/L	379 mg/L	N/A	N/A	1	Unknown

Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number <i>(if available)</i>	Maximum Values <i>(include units)</i>		Average Values <i>(include units)</i>		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
Cadmium	0.0005 mg/L	0.0005 mg/L	N/A	N/A	1	Unknown
Lead	0.0025 mg/L	0.0025 mg/L	N/A	N/A	1	Unknown
Selenium	0.001 mg/L	0.001 mg/L	N/A	N/A	1	Unknown
Zinc	0.112 mg/L	0.166 mg/L	N/A	N/A	1	Unknown

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)
10/25/06	420	1.17	120	0.67 mgd	N/A

7. Provide a description of the method of flow measurement or estimate.

Outfall 007 flow is estimated by calculations utilizing area and rainfall.

VII. Discharge Information (Continued from page 3 of Form 2F)

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
Oil and Grease	1.1 mg/L	N/A	0.8 mg/L	N/A	2	Unknown
Biological Oxygen Demand (BOD5)	No historical data available.					
Chemical Oxygen Demand (COD)	No historical data available.					
Total Suspended Solids (TSS)	41 mg/L	N/A	24 mg/L	N/A	2	Unknown
Total Nitrogen	No historical data available.					
Total Phosphorus	No historical data available.					
pH	Minimum 4.8	Maximum 7.3	Minimum 4.8	Maximum 7.3	2	Unknown

B. List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
Ammonia-N	188 mg/L	N/A	118 mg/L	N/A	2	Unknown
Nitrate-N	215 mg/L	N/A	145 mg/L	N/A	2	Unknown
TDS	490 mg/L	N/A	375 mg/L	N/A	2	Unknown
Sulfate	190 mg/L	N/A	14.4 mg/L	N/A	2	Unknown
Copper	19.0 ug/L	N/A	15.5 ug/L	N/A	2	Unknown
Lead	5.60 ug/L	N/A	4.05 ug/L	N/A	2	Unknown
Selenium	<5.0 ug/L	N/A	<5.0 ug/L	N/A	2	Unknown
Zinc	206 ug/L	N/A	194 ug/L	N/A	2	Unknown

No storm events occurred that would cause a discharge from Outfall 002 during the application preparation period. Only Historical data (see Part A of this Section) is available.

Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number <i>(If available)</i>	Maximum Values <i>(include units)</i>		Average Values <i>(include units)</i>		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite		
No storm events occurred that would cause a discharge from Outfall 002 during the application preparation period. Only Historical data (see Part A of this Section) is available.						

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event <i>(in minutes)</i>	3. Total rainfall during storm event <i>(in inches)</i>	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event <i>(gallons/minute or specify units)</i>	6. Total flow from rain event <i>(gallons or specify units)</i>
Not available					

7. Provide a description of the method of flow measurement or estimate.

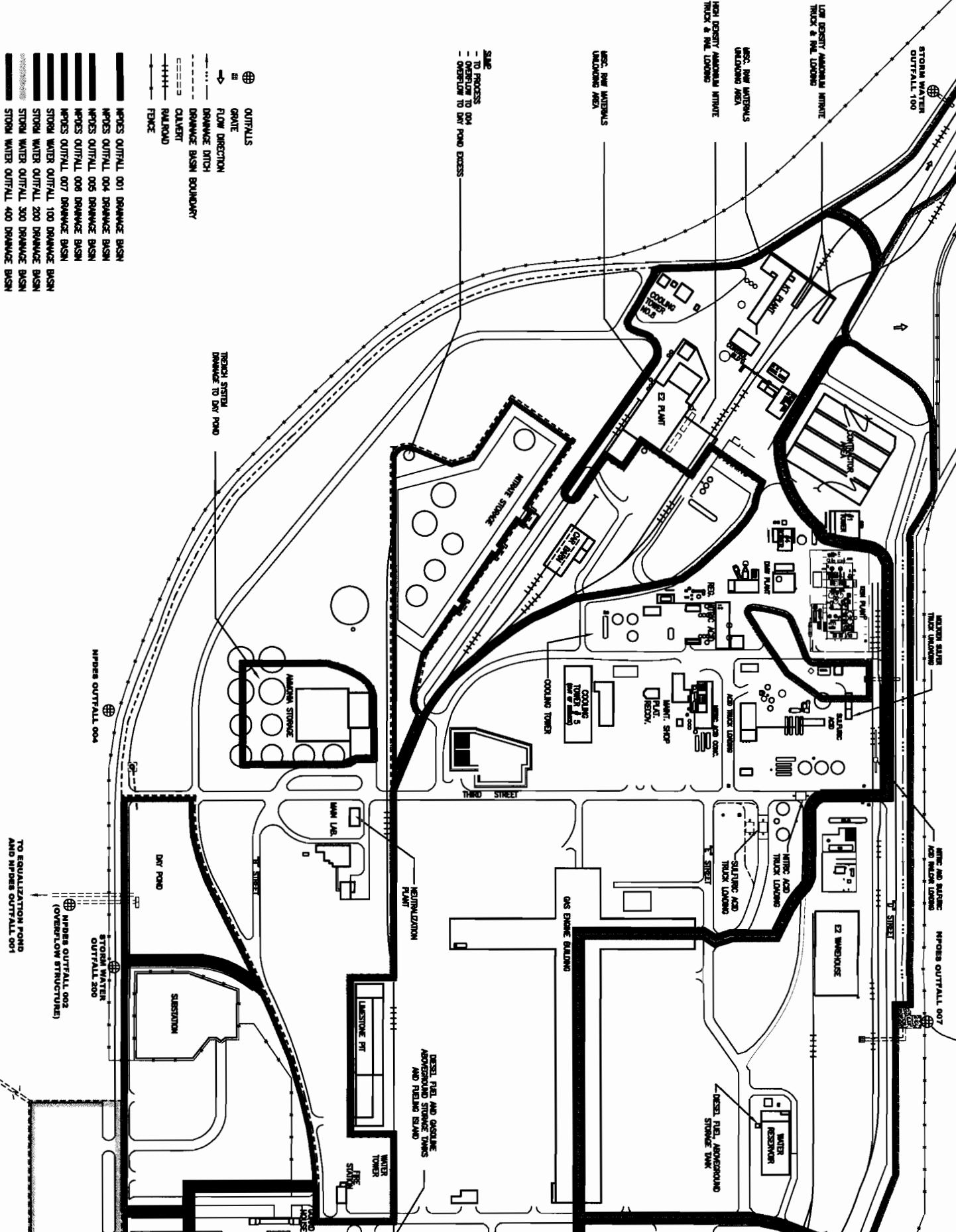
Staff Gauge

Attachment Form 2F, Section VIII

Date	Fathead Minnow Survival		Daphnia pulex Survival	
	Survival	Survival	Survival	Survival
Outfall 001				
June 04	Fail	Fail	Fail	Fail
July 04	Fail	Fail	Fail	Fail
August 04	Fail	Fail	Fail	Fail
Sep 04	Fail	Fail	Pass	Fail
October 04	Fail	Fail	Pass	Fail
November 04	Fail	Fail	Pass	Fail
December 04	Fail	Fail	Pass	Fail
January 05	Fail	Fail	Pass	Fail
February 05	Fail	Fail	Pass	Pass
March 05	Fail	Fail	Pass	Fail
April 05	Pass	Fail	Pass	Pass
May 05	Pass	Fail	Pass	Fail
June 05	Pass	Fail	Pass	Pass
Sep 05	Pass	Pass	Pass	Fail
October 05	Pass	Pass	Pass	Pass
Jan 06	Pass	Pass	Pass	Pass
February 06	Pass	Pass	Pass	Pass
March 06	Pass	Fail	Pass	Pass
April 06	Pass	Pass	Pass	Fail
June 06	Pass	Pass	Pass	Pass

Date	Fathead Minnow Survival	Daphnia pulex Survival
Outfall 002		
April 05	Pass	Fail
January 06	Pass	Fail
Outfall 004		
June 04	Fail	Fail
August 04	Fail	Fail
October 04	Fail	Fail
November 04	Fail	Fail
January 05	Fail	Fail
February 05	Pass	Fail
March 05	Fail	Fail
April 05	Pass	Fail
July 05	Fail	Fail
September 05	Fail	Fail
October 05	Fail	Fail
January 06	Fail	Fail
February 06	Pass	Pass
March 06	Pass	Fail

Date	Final Mirror Survey	Pass/Fail
Outfall 005		
June 04	Pass	Pass
August 04	Pass	Pass
October 04	Pass	Pass
November 04	Pass	Pass
January 05	Fail	Pass
February 05	Fail	Pass
March 05	Fail	Pass
April 05	Fail	Fail
July 05	Fail	Fail
September 05	Fail	Fail
January 06	Pass	Pass
February 06	Pass	Pass
March 06	Pass	Pass
Outfall 006		
June 04	Fail	Fail
August 04	Fail	Fail
October 04	Fail	Fail
November 04	Fail	Fail
January 05	Pass	Pass
February 05	Pass	Pass
March 05	Fail	Fail
April 05	Pass	Fail
July 05	Fail	Pass
September 05	Fail	Fail
October 05	Pass	Fail
January 06	Pass	Fail
February 06	Pass	Fail
March 06	Pass	Pass
Outfall 007		
June 04	Pass	Fail
August 04	Fail	Fail
October 04	Pass	Fail
November 04	Pass	Pass
January 05	Pass	Fail
February 05	Pass	Fail
March 05	Pass	Fail
April 05	Pass	Fail
July 05	Fail	Fail
September 05	Fail	Fail
October 05	Fail	Fail
January 06	Pass	Fail
February 06	Pass	Pass
March 06	Pass	Pass



- ⊕ OUTFALLS
- ⊕ GRATE
- ➔ FLOW DIRECTION
- - - DRAINAGE DITCH
- - - DRAINAGE BASIN BOUNDARY
- - - CULVERT
- - - RAILROAD
- - - FENCE

- ▬▬▬ WPPSS OUTFALL 001 DRAINAGE BASIN
- ▬▬▬ WPPSS OUTFALL 004 DRAINAGE BASIN
- ▬▬▬ WPPSS OUTFALL 006 DRAINAGE BASIN
- ▬▬▬ WPPSS OUTFALL 008 DRAINAGE BASIN
- ▬▬▬ WPPSS OUTFALL 007 DRAINAGE BASIN
- ▬▬▬ STORM WATER OUTFALL 100 DRAINAGE BASIN
- ▬▬▬ STORM WATER OUTFALL 200 DRAINAGE BASIN
- ▬▬▬ STORM WATER OUTFALL 300 DRAINAGE BASIN
- ▬▬▬ STORM WATER OUTFALL 400 DRAINAGE BASIN

TRENCH SYSTEM
DRAINAGE TO DRY POND

WPPSS OUTFALL 004

TO EQUALIZATION POND
AND WPPSS OUTFALL 001

WPPSS OUTFALL 002
(OVERFLOW STRUCTURE)

WPPSS OUTFALL 003

4.0 Description of Potential Pollutant Sources

Section 4.0 contains an inventory and description of areas, materials, and activities at the site that may have the potential to contribute a significant amount of pollutants to storm water. Section 4.1 contains a description of facility drainage and identification of areas of industrial activity exposed to storm water. The Plant spill history and the potential for non-storm water discharges are discussed in Sections 4.2 and 4.3, respectively. Storm water monitoring data is covered in Section 4.4 and risk identification of potential pollutant sources is discussed in Section 4.5.

4.1 Facility Drainage

This section contains descriptions of the areas, activities, and materials that may affect storm water run-off at the Plant. A description of potential storm water pollution sources located within each drainage basin is provided in the following sub-sections. Recent changes made at the facility to improve management of storm water drainage, including altering underground drainage connections to divert storm water to the Day Pond, have altered the drainage basins. The changes made have had the biggest impact on areas that previously drained to NPDES Outfall 005. The description of storm water drainage areas has been updated in the SWPPP, and includes additional storm water outfalls. Refer to the facility site drawing (Appendix B) for delineation of the drainage basins and as a reference for the location of potential storm water pollution sources. Table 4.1 provides a predicted direction of storm water flow and the potential pollutants to storm water associated with each area.

In the event that material exposed to storm water contributes pollutants to discharges, storm water would flow to either the north or south branch of an unnamed tributary to Flat Creek, then to Flat Creek, then to Haynes Creek, then to Smackover Creek, and then to the Ouachita River. Any future modifications in the area that affect storm water drainage patterns should be reviewed and updates to the SWPPP should be made as necessary.

4.1.1 Areas That Drain to NPDES Outfall 001

Surface drainage and an underground sewer system collect storm water and process water from the production of nitric acid, sulfuric acid, and ammonium nitrate from the NPDES Outfall 001 drainage area. The production process requires approximately 1.7 million gallons of process water per day, which is used for cooling tower make-up, hydrostatic testing, pump seal flushing, boiler feed water, and unit wash downs. The storm water and process water are directed through a neutralization treatment system, a one acre pond (Day Pond), and then through a 152 million gallon capacity pond (Equalization Pond) where water is discharged through NPDES Outfall 001, which is located at the northeast end of the pond.

The majority of storm water run-off for this drainage area is from the central part of the facility, including most of the production area. The drainage area also includes areas of ancillary activities (e.g., boiler house, maintenance shop, etc.). Industrial activity exposed to storm water in the drainage area includes:

a) Production Area

The ammonium nitrate production (E2 Plant and KT Plant), nitric acid production, and sulfuric acid production facilities are located in this drainage area. Most of the ancillary equipment and structures required for the production process, such as cooling towers, compressors, nitric acid and sulfuric acid storage tanks, maintenance shops/break rooms, the gas engine building (used for miscellaneous storage), and contractor areas, are also located in this drainage area.

b) Loading and Unloading Areas

Loading of final product and raw materials takes place at multiple locations within the production area. Loading of sulfuric acid into trucks takes place northeast of 3rd Street and E Street and loading of nitric acid into trucks takes place on 3rd Street just north of E Street. The two truck loading areas for acid are covered to prevent storm water contact with materials handled in the area. Sulfuric acid and nitric acid are loaded into railcars at the north end of the facility near the intersection of D Street and 3rd Street. A truck unloading area for molten sulfur is located south of the acid railcar loading area and is covered to prevent storm water contact with materials handled in the area. Low density (i.e., industrial grade) ammonium nitrate is loaded into trucks or railcars just north of the KT Plant and high density (i.e., fertilizer grade) ammonium nitrate is loaded into trucks or railcars just north of the E2 Plant. The loading areas for both low and high density ammonium nitrate are covered to prevent storm water contact with materials handled in the area.

Miscellaneous raw materials (e.g., talc, galoryl, magnesium oxide) are unloaded from trucks to storage vessels or silos on the south side of the KT Plant and the south side of the E2 Plant. Unloading of water treatment chemicals for ancillary activities occurs at various locations within the drainage area. Boiler chemicals (e.g., Chemtreat BL-110, sodium hydroxide, sulfuric acid, etc.) are unloaded by tank truck or railcar at the Boiler House. Each cooling tower has a storage location for water treatment chemicals (sulfuric acid, Chemtreat CL-40, Chemtreat CL-4894, etc.) and these materials are delivered by truck or tank truck. Petroleum products (diesel fuel, gasoline, oil) are delivered to the facility by truck or tank truck and are loaded/unloaded at various locations, but mainly in the vicinity of the Garage (aboveground storage tanks, used oil) and the Maintenance Shops (drums of oil).

c) Storage Areas

Miscellaneous equipment and supplies required for plant operations are stored throughout the production area of the facility (e.g., pipe racks, salvage equipment, trash dumpsters, rails, cross ties, etc.). Contractor areas are designated for the storage of supplies and equipment necessary for construction and other contractor activities. When possible, materials with the potential to impact storm water run-off should be stored in covered areas. If materials with the potential to impact storm water run-off must be stored outside, measures should be taken to prevent contact with storm water when practical (e.g., store on pallets, cover with tarps).

Chemicals used in the boiler house are stored in various tanks located adjacent to the boiler house (e.g., Chemtreat BL-110, sulfuric acid, etc.). An empty 55,000-gallon fuel oil tank, which is out of service, is located north of the Boiler House. Each cooling tower at the Plant has a storage area for water treatment chemicals (e.g., sulfuric acid, Chemtreat CL-40, Chemtreat CL-4894, etc.).

Diesel fuel and gasoline are stored in aboveground storage tanks on the west side of the Garage. The tanks include a 2,000 gallon gasoline tank, 500 gallon diesel fuel tank, 2,000 gallon diesel tank, and 500 gallon oil tank. The 2,000 gallon gasoline tank and 500 gallon diesel fuel tank are located within a concrete secondary containment structure and underground pipes lead to a fueling island immediately south of the storage tanks. The 2,000 gallon diesel and 500 gallon oil tank are utilized by the Railroad Contractor and are not located within a secondary containment structure. Spills or leaks from this tank storage area would be diverted to the Day Pond. A storage area for used oil is located on the east side of the Garage. Used oil is stored in 55-gallon drums and aboveground tanks with capacities of approximately 200 to 250 gallons. The storage area is covered and has a concrete pad with 6-inch curbing to contain spills and leaks. Diesel fuel is stored in an aboveground storage tank (approx. 1,000 gallons) in the vicinity of the nitric acid plant. Spills or leaks from this storage tank would be diverted to the Day Pond.

d) Water Cooled AC Units

There are two water cooled air conditioning (AC) units located within the NPDES Outfall 001 drainage area that discharge non-contact cooling water to the Day Pond. One is located at the guardhouse and the other is located north of the recreation building. The combined discharge, estimated by EDCC personnel, is approximately 30 gallons per minute.

4.1.2 Areas That Drain to NPDES Outfall 002

Normally a discharge through NPDES Outfall 002 (located at the Day Pond overflow structure) does not occur, but could potentially occur during storm events with sufficient intensity to cause the Day Pond to discharge through the overflow structure.

Discharges from NPDES Outfall 002 would flow into the south branch of an unnamed tributary of Flat Creek.

The majority of storm water run-off for this drainage area is from the central part of the facility, including most of the production area. Industrial activity exposed to storm water in the drainage area is the same as described above for the NPDES Outfall 001 drainage area.

4.1.3 Areas That Drain to NPDES Outfall 003

NPDES Outfall 003 discharges treated sanitary wastewater, which flows into the south branch of an unnamed tributary of Flat Creek. The treatment system consists of an Imhoff sewage treatment unit followed by sand filters. The system is only used to treat sanitary wastewater and does not receive process water from the Plant or storm water from areas of industrial activity.

4.1.4 Areas That Drain to NPDES Outfall 004

Surface drainage and underground drainage structures collect storm water from the areas that drain to NPDES Outfall 004. In 2006, a pump system was installed at NPDES Outfall 004 to divert storm water to the Day Pond and the outfall structure was blinded off to prevent discharge through NPDES Outfall 004. In the event of a storm event with sufficient intensity to exceed the pump capacity and retention capacity at NPDES Outfall 004, storm water may overtop the levee and would flow into the south branch of an unnamed tributary of Flat Creek. The majority of storm water run-off for this drainage area is from the southwest portion of the facility, which includes the ammonia storage tanks and nitrate storage tanks. Industrial activity exposed to storm water in the drainage area includes:

a) Production Area

Production activity in this drainage area is limited, but includes ammonia and nitrate storage tanks, trash dumpsters, laboratory building, and neutralization plant. Ammonia and nitrate are stored in tanks located at the southern end of the production area. The ammonia is delivered to the tanks through an underground pipeline. Nitrate is delivered to the tanks from the production plant through aboveground pipes. As shown on the facility site drawing, a portion of the storm water in the vicinity of the ammonia storage is diverted directly to the Day Pond by a trench system and underground drainage structures. In the nitrate storage area, a sump collects flow from the area and a pump diverts flow back to the process. Flow in excess of the pump capacity is diverted by gravity flow to NPDES Outfall 004 (which is then diverted to the Day Pond) and additional excess flow is diverted by gravity flow directly to the Day Pond.

b) Neutralization Plant and Laboratory

The neutralization plant and laboratory are located east of the ammonia storage tanks. The neutralization plant is used to treat process water and storm water from the NPDES Outfall 001 drainage area prior to discharge to the Day Pond. An abandoned treatment system (limestone pit) is located east of the neutralization plant. Although the limestone pit has been abandoned as a treatment mechanism, storm water stills flows through the system to the Day Pond.

c) Railcar Cleaning

The Car Barn is used to clean railcar tanks that transport nitric acid and sulfuric acid. Railcar cleaning activities take place inside the Car Barn and are not exposed to storm water. Wash water from the cleaning operation is directed to drains connected to the underground sewer system that leads to the neutralization plant, then the Day Pond, and then to the Equalization Pond, which discharges through NPDES Outfall 001.

4.1.5 Areas That Drain to NPDES Outfall 005

Modification of underground drainage structures at the facility have changed the areas that drain to NPDES Outfall 005. Previously storm water drainage from areas in the vicinity of the Boiler House, Garage, and Maintenance Shops and Warehouse were diverted to NPDES Outfall 005. As shown on the facility site drawing, these areas are now diverted to the Day Pond. Only a small area (approx. one acre) located between the Guard House and the employee parking lot currently drains to NPDES Outfall 005. Storm water from the area is collected in an underground storm water drainage system and diverted to NPDES Outfall 005. There is no industrial activity in this area.

4.1.6 Areas That Drain to NPDES Outfall 006

Surface drainage collects storm water from the areas that drain to NPDES Outfall 006. Culverts under the road and railroad direct storm water to the outfall. The majority of storm water run-off for this drainage area is from the ammonium nitrate railcar cleaning area. Industrial activity exposed to storm water in the drainage area includes:

a) Railcar Cleaning

Railcars used for the transport of ammonium nitrate products are often returned to the Plant after delivery of shipments. The returned railcars usually contain residual ammonium nitrate, which is removed from the railcars through hopper doors on the bottom of the railcar. The ammonium nitrate is loaded into trucks using front-end loaders and transported to the E2 Warehouse, where it is either recycled through the production plant or sold as substandard product.

b) Storage Areas

Storage in the drainage area includes chlorine gas cylinders and railroad contractor equipment and supplies. Chlorine gas cylinders are stored on a concrete pad in a covered storage area located northeast of the Gas Engine Building. Miscellaneous equipment and supplies located in this drainage area include materials required for railroad contractor activities (rails, cross ties, parts, heavy equipment, etc.).

4.1.7 Areas That Drain to NPDES Outfall 007

Surface drainage and underground drainage structures collect storm water from the areas that drain to NPDES Outfall 007. The majority of storm water run-off for this drainage area is from the northern portion of the plant. Industrial activity exposed to storm water in the drainage area includes:

a) Production Area

Production activities take place within NPDES Outfall 007 drainage area are limited, as shown on the facility site drawing in Appendix B. Ancillary activities, such as oxygen plant equipment, cooling towers, and contractor areas, are also located in the drainage area.

b) Loading and Unloading Areas

Loading of nitric acid and sulfuric acid into railcars takes place near the intersection of D Street and 3rd Street. Storm water run-off from the loading area drains to NPDES Outfall 001. During storm events, the potential exists for storm water run-off from the loading area to flow to NPDES Outfall 007 drainage area and discharge through the outfall.

The molten sulfur unloading area is located south of D Street and west of 3rd Street. Storm water run-off from the loading area drains to NPDES Outfall 001. During storm events, the potential exists for storm water run-off from the loading area to flow to NPDES Outfall 007 drainage area and discharge through the outfall.

Ammonium nitrate recovered from empty railcars is stored in the E2 Warehouse. The material is transferred from the railcar cleaning area by front end loader or truck and is unloaded inside the building. The recovered ammonium nitrate is considered substandard and is sold as substandard product. The substandard ammonium nitrate is loaded into trucks on the east side of the E2 Warehouse.

c) Storage Areas

Outside storage that is exposed to storm water includes contractor areas and cooling tower chemicals. An area designated for contractors to store equipment and supplies is located west of the DSN Plant, which may include salvage

equipment. A storage area for cooling tower water treatment chemicals (e.g., sulfuric acid, Chemtreat CL-40, Chemtreat CL-4894, etc.) is located on the north side of cooling tower #1.

A diesel fuel tank, with a capacity of approximately 250 gallons, is located on the south side of the Water Reservoir and has a concrete drip pad. Pipe and metal associated with welding and painting activities are stored in the drainage area. A portion of the E2 Warehouse, which is used to store ammonium nitrate, is located in the drainage area.

d) Water Reservoir

A water reservoir, supplied by groundwater and river water, is located within the drainage area. Overflow of water from the reservoir is diverted to an underground drainage structure and discharges through Storm Water Outfall 100. The discharge from the water reservoir is intermittent and the flow varies.

4.1.8 Areas That Drain to Storm Water Outfall 100

Surface drainage collects storm water from the areas that drain to Storm Water Outfall 100. The drainage area is located at the west side of the facility. Grassy areas, railroad tracks, and Plant roads are located within the drainage area. Culverts under the roads and railroad tracks direct storm water to the outfall. There is no industrial activity in this area.

4.1.9 Areas That Drain to Storm Water Outfall 200

Surface drainage collects storm water from the areas that drain to Storm Water Outfall 200. The drainage area is located on the south side of the facility between the Day Pond and Guard House. The drainage area consists mostly of grassy areas, but also includes an electrical substation. A concrete swale on the west side of the substation diverts storm water to the outfall. There is no industrial activity in this area.

4.1.10 Areas That Drain to Storm Water Outfall 300

Surface drainage and underground drainage structures collect storm water from the areas that drain to Storm Water Outfall 300. The drainage area is located on the southeast side of the facility. The drainage area includes employee parking lots and grassy areas in the vicinity of the Administration Building and Recreation Building. There is currently no industrial activity in this area.

Although there is currently no industrial activity in the area, previously areas between the Administration Building and Maintenance Shops/Warehouse building were used to store new equipment, including storage racks for pipe and metal.

Date	Flow		Chloride		Concentration		Copper		Nitrogen, Ammonia Total as N					
	Quantity MGD	Max	Quantity lbs/day	Max	Average mg/L	Max	Quantity lbs/day	Max	Quantity lbs/day	Average mg/L	Max			
Jun-04	0.6252	0.8921	189	189	40.2	40.2	0.0573	0.0573	13	13	342	484	66.1	84.7
Jul-04	0.5357	0.895	175	175	34.4	34.4	0.0447	0.0447	9	9	220	346	47	62.6
Aug-04	0.829	1.872	166	166	48.4	48.4	0.0308	0.0308	9	9	378	825	54.8	67.6
Sep-04	0.559	0.878	137	137	51.6	51.6	0.0292	0.0292	11	11	202	358	43.3	51.6
Oct-04	1.078	1.386	464	464	50.8	50.8	0.1005	0.1005	11	11	364	429	37	40
Nov-04	1.05	1.83	543	543	44.2	44.2	0.086	0.086	7	7	397	722	42.8	47.3
Dec-04	1.421	1.693	398	398	32.2	32.2	0.136	0.136	11	11	494	664	42.1	47.1
Jan-05	1.251	1.588	189	189	30.2	30.2	0.1002	0.1002	16	16	571	875	59	71.6
Feb-05	1.227	1.495	278	278	27	27	0.0618	0.0618	6	6	554	576	51.7	56.3
Mar-05	1.499	1.767	457	457	31.6	31.6	0.1	0.1	7	7	706	1002	55.7	72.5
Apr-05	1.38	1.75	468	468	32.1	32.1	0.1022	0.1022	7	7	689	825	55.9	62
May-05	1.35	1.589	331	331	29.2	29.2	NA	NA	2.5	2.5	606.9	693	52.4	58.4
Jun-05	1.12	1.85	479.7	479.7	42.8	42.8	0.1	0.1	9	9	441.3	722.3	50.5	57.7
Jul-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sep-05	0.87	1.77	346	346	46	46	NA	NA	2.5	2.5	396.1	581	46.2	55.5
Oct-05	1.36	1.49	541	541	47.6	47.6	NA	NA	2.5	2.5	322	424	27	37
Nov-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dec-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jan-06	1.25	1.58	546	546	46.5	46.5	NA	NA	2.5	2.5	123.48	177.47	12.87	14.9
Feb-06	1.59	1.59	521.58	521.58	47.2	47.2	NA	NA	2.5	2.5	222	326	18.2	26
Mar-06	1.024	1.502	383	383	53.6	53.6	0.09	0.09	13	13	164.8	306.89	13.7	24.5
Apr-06	0.73	1.413	177.81	177.81	38.8	38.8	0.03	0.03	8	8	101.99	394.07	6.95	16.9
May-06	0.234	0.263	--	--	--	--	--	--	--	--	4.38	4.52	2.01	2.06
Jun-06	0.348	0.366	123.12	123.12	42.3	42.3	0.02	0.02	6	6	8.03	13.39	2.76	4.6
Jul-06	1.289	1.354	482	482	42.7	42.7	0.07	0.07	6	6	30	59	2.8	5.45
Aug-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sep-06	1.225	1.37	354.23	354.23	33.5	33.5	0.11	0.11	10	10	31.95	47.57	3.04	4.31
Totals														
COUNT	23	23	22	22	22	22	17	17	22	22	23	23	23	23
MIN	0.23	0.26	123.12	123.12	27.00	27.00	0.02	0.02	2.50	2.50	4.38	4.52	2.01	2.06
AVG	1.04	1.40	352.25	352.25	40.59	40.59	0.07	0.07	7.80	7.80	320.43	471.97	34.51	42.2
MAX	1.59	1.87	546.00	546.00	53.60	53.60	0.14	0.14	16.00	16.00	706.00	1002.00	66.10	84.4
STD DEV	0.38	0.45	148.95	148.95	8.09	8.09	0.03	0.03	3.86	3.86	219.04	292.34	21.67	25.1

Selenium			Total Dissolved Solids			Total Suspended Solids			Sulfate					
Quantity	Concentration	Quantity	Concentration	Quantity	Concentration	Quantity	Concentration	Quantity	Concentration	Quantity	Concentration			
lbs/day	µg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L			
Average	Max	Average	Max	Average	Max	Average	Max	Average	Max	Average	Max			
NA	NA	<0000005	<0000005	4226	4226	900	900	58	128	11.2	29	627	728	134.5
NA	NA	0.5	0.5	3620	3620	710	710	48	91	10.7	26	637	637	125
NA	NA	0.5	0.5	3221	3221	940	940	65	118	10.2	14	610	610	178
NA	NA	0.5	0.5	3183	3183	1200	1200	46	59	11.3	18	530	530	200
NA	NA	0.5	0.5	9132	9132	1000	1000	79	185	7.8	16	1946	1946	188
NA	NA	0.5	0.5	12280	12280	1000	1000	54	147	5.5	12	2198	2198	179
NA	NA	0.5	0.5	10631	10631	860	860	22	74	1.7	6	2386	2386	193
NA	NA	0.5	0.5	4945	4945	790	790	13	20	0.7	3.2	1171	1171	187
NA	NA	0.5	0.5	9270	9270	900	900	91	120	8.4	9.6	2760	2760	268
NA	NA	0.5	0.5	13007	13007	900	900	141	231	11.1	16	3613	3613	250
NA	NA	0.5	0.5	12406	12406	850	850	133	288	11	25	2963	2963	203
NA	NA	0.5	0.5	8053	8053	710	710	55.2	96	4.8	8.8	1883	1883	166
NA	NA	0.5	0.5	9975	9975	890	890	83.6	181.6	9.4	19	1871.9	1871.9	167
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NA	NA	0.5	0.5	8987	8987	1200	1200	131.5	388.3	14.29	32	1070	1070	143
NA	NA	0.5	0.5	12513	12513	1100	1100	77.56	114.09	6.63	9.6	18.2	18.2	160
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NA	NA	0.5	0.5	9166	9166	780	780	82.96	246.01	8.91	24.8	1141	1141	97.1
NA	NA	0.5	0.5	8398	8398	760	760	57.65	84.81	3.2	6.4	1096	1096	99.2
NA	NA	0.5	0.5	4497	4497	630	630	62.14	100.01	6.7	11	645	645	90.4
NA	NA	0.5	0.5	2337	2337	510	510	88.17	125.85	7.6	9.7	324	324	70.7
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NA	NA	0.5	0.5	1339	1339	460	460	55.38	106.59	18.83	36	209	209	71.8
NA	NA	0.5	0.5	4855	4855	430	430	104	260	9.64	24	961	961	85.1
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NA	NA	0.5	0.5	3066	3066	290	290	92.5	121.8	8.8	11	590	590	55.8
0	0	21	21	22	22	22	22	23	23	23	23	22	22	22
0.00	0.00	0.50	0.50	1339.00	1339.00	290.00	290.00	13.00	20.00	0.70	3.20	18.20	18.20	55.80
#DIV/0!	#DIV/0!	0.50	0.50	7232.14	7232.14	809.55	809.55	73.80	145.45	9.32	17.13	1329.55	1334.14	150.53
0.00	0.00	0.50	0.50	13007.00	13007.00	1200.00	1200.00	141.00	388.30	26.00	36.00	3613.00	3613.00	268.00
#DIV/0!	#DIV/0!	0.00	0.00	3768.02	3768.02	238.62	238.62	32.50	86.54	5.37	9.17	981.49	978.28	58.35

EDCC Outfall 001 DMR Data 1/04 - 9/06

Date	Temperature	Temperature	Date	Temperature	Temperature
Summer	Fahrenheit	Celsius	Winter	Fahrenheit	Celsius
	Max	Max		Max	Max
Jun-04	74	23.33	Oct-04	73	22.78
Jul-04	82	27.78	Nov-04	72	22.22
Aug-04	83	28.33	Dec-04	58	14.44
Sep-04	83	28.33	Jan-05	59	15.00
Apr-05	73	22.78	Feb-05	64	17.78
May-05	77	25.00	Mar-05	63	17.22
Jun-05	86	30.00			
Jul-05			Oct-05	77.9	25.50
Aug-05			Nov-05		
Sep-05	82.7	28.17	Dec-05		
Apr-06	76.7	24.83	Jan-06	54	12.22
May-06	73.9	23.28	Feb-06	57	13.89
Jun-06	79	26.11	Mar-06	61	16.11
Jul-06	81.5	27.50			
Aug-06					
Sep-06	79.6	26.44			
Totals					
COUNT	13.00	13.00		10.00	10.00
MIN	73.00	22.78		54.00	12.22
AVG	79.34	26.30		63.89	17.72
MAX	86.00	30.00		77.90	25.50
STD DEV	4.13	2.30		7.87	4.37

Date	Flow MGD	Quantity Max	Copper Concentration µg/L	Lead Concentration µg/L	Nitrogen, Ammonia Quantity lbs/day	Nitrogen, Ammonia Concentration mg/L	Nitrogen, Nitrate Quantity lbs/day	Nitrogen, Nitrate Concentration mg/L	Oil & Grease Concentration mg/L	PH Concentration SU									
	Average	Max	Average	Max	Average	Max	Average	Max	Average	Min	Max								
Jun-04	---	---	---	---	---	---	---	---	---	---	---								
Jul-04	---	---	---	---	---	---	---	---	---	---	---								
Aug-04	---	---	---	---	---	---	---	---	---	---	---								
Sep-04	---	---	---	---	---	---	---	---	---	---	---								
Oct-04	---	---	---	---	---	---	---	---	---	---	---								
Nov-04	---	---	---	---	---	---	---	---	---	---	---								
Dec-04	---	---	---	---	---	---	---	---	---	---	---								
Jan-05	---	---	---	---	---	---	---	---	---	---	---								
Feb-05	---	---	---	---	---	---	---	---	---	---	---								
Mar-05	---	---	---	---	---	---	---	---	---	---	---								
Apr-05	0.5	0.5	19	19	2.5	2.5	784	784	188	188	897	897	215	215	0.5	0.5	4.8	4.8	
May-05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Jun-05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Jul-05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Aug-05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Sep-05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Oct-05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Nov-05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Dec-05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Jan-06	0.08	0.08	12	12	5.6	5.6	549	549	48	48	850	850	74.3	74.3	1.1	1.1	7.3	7.3	
Feb-06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Mar-06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Apr-06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
May-06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Jun-06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Jul-06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Aug-06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Sep-06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Totals																			
COUNT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
MIN	0.08	0.08	12.00	12.00	2.50	2.50	549.00	549.00	48.00	48.00	850.00	850.00	74.30	74.30	0.50	0.50	4.80	4.80	
AVG	0.29	0.29	15.50	15.50	4.05	4.05	666.50	666.50	118.00	118.00	873.50	873.50	144.65	144.65	0.80	0.80	6.05	6.05	
MAX	0.50	0.50	19.00	19.00	5.60	5.60	784.00	784.00	188.00	188.00	897.00	897.00	215.00	215.00	1.10	1.10	7.30	7.30	
STD DEV	0.30	0.30	4.95	4.95	2.19	2.19	166.17	166.17	98.99	98.99	33.23	33.23	99.49	99.49	0.42	0.42	1.77	1.77	

EDCC Outfall 003 DMR Data 12/05 - 9/06

Date	Flow		BOD, Carbonaceous 5 Day				Fecal Coliform			Nitrogen, Ammonia Total as N			PH			Total Suspended Solids		
	Quantity	MGD	Quantity	Concentration	Quantity	Concentration	Quantity	Concentration	Quantity	Concentration	Quantity	Concentration	Quantity	Concentration	Quantity	Concentration	Quantity	Concentration
	Average	Max	Average	Max	Average	Max	Average	Max	Average	Max	Average	Max	Average	Max	Average	Max	Average	Max
Dec-05	0.0417	0.043	NA	1	0	0	NA	0.5	NA	0.5	6.5	6.6	1.5	1.5	4.4	4.4	4.4	
Jan-06	0.039	0.041	--	--	--	--	NA	--	NA	0.5	6.5	6.8	--	--	--	--	--	
Feb-06	0.038	0.0417	--	--	--	--	--	--	--	--	6.7	6.9	--	--	--	--	--	
Mar-06	0.043	0.046	2.5	7.3	0	0	--	--	--	--	7	7.7	4.1	4.1	12	12	12	
Apr-06	0.041	0.048	--	--	--	--	0.39	1.16	0.39	1.16	6.6	6.7	--	--	--	--	--	
May-06	0.038	0.042	--	--	--	--	--	--	--	--	7.6	8	--	--	--	--	--	
Jun-06	0.038	0.042	1.12	3.64	3	3	--	--	--	--	7.6	8	0.37	0.37	1.2	1.2	1.2	
Jul-06	0.038	0.039	--	--	--	--	NA	0.5	NA	0.5	6.9	7.1	--	--	--	--	--	
Aug-06	0.0473	0.0488	--	--	--	--	--	--	--	--	6.85	7.78	--	--	--	--	--	
Sep-06	0.0468	0.0485	NA	1	22	22	--	--	--	--	6.8	6.9	NA	NA	2	2	2	
Totals																		
COUNT	10	10	2	4	4	4	1	3	1	3	10	10	3	3	4	4	4	
MIN	0.04	0.04	1.12	1.00	0.00	0.00	0.39	0.50	0.39	0.50	6.50	6.60	0.37	0.37	1.20	1.20	1.20	
AVG	0.04	0.04	1.81	3.24	6.25	6.25	0.39	0.72	0.39	0.72	6.91	7.25	1.99	1.99	4.90	4.90	4.90	
MAX	0.05	0.05	2.50	7.30	22.00	22.00	0.39	1.16	0.39	1.16	7.60	8.00	4.10	4.10	12.00	12.00	12.00	
STD.DEV	0.00	0.00	0.98	2.98	10.59	10.59	#DIV/0!	0.38	#DIV/0!	0.38	0.40	0.56	1.91	1.91	4.92	4.92	4.92	

Date	Flow		BOD, Carbonaceous 5 Day			Fecal Coliform			Nitrogen, Ammonia Total as N			PH			Total Suspended Solids		
	Quantity MGD	Max	Average	Concentration mg/L	Max	Average	Concentration #/100 ml	Max	Average	Concentration mg/L	Max	Average	Concentration SU	Quantity lbs/day	Max	Average	Concentration mg/L
Jun-04	0.04648	0.0618	NA	<0000002	<0000002	215	215	NA	NA	0.5	0.5	7.2	7.6	NA	<0000001	<0000001	
Jul-04	0.03925	0.041	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.1	7.4	NA	NA	NA	
Aug-04	0.0326	0.0359	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.2	7.3	NA	NA	NA	
Sep-04	0.0312	0.034	NA	1	38	38	38	NA	NA	NA	NA	7.1	7.4	0.4	0.4	1.6	
Oct-04	0.0335	0.036	NA	NA	NA	NA	NA	NA	NA	0.5	0.5	7.1	7.5	NA	NA	NA	
Nov-04	0.03325	0.039	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.2	7.6	NA	NA	NA	
Dec-04	0.0358	0.04	NA	1	32	32	32	NA	NA	NA	NA	6.8	7.4	NA	NA	2	
Jan-05	0.0351	0.0367	NA	NA	NA	NA	NA	NA	NA	0.5	0.5	7.1	7.3	NA	NA	NA	
Feb-05	0.037	0.041	NA	1	132	132	132	NA	NA	NA	NA	7.1	7.2	NA	NA	NA	
Mar-05	0.037	0.041	NA	1	132	132	132	NA	NA	NA	NA	7.2	7.5	NA	NA	2	
Apr-05	0.038	0.04	NA	NA	NA	NA	NA	NA	NA	0.5	0.5	6.6	7.2	NA	NA	NA	
May-05	0.037	0.041	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.3	6.6	NA	NA	NA	
Jun-05	0.048	0.049	NA	1	47	47	47	NA	NA	NA	NA	6.3	6.6	NA	NA	2	
Jul-05	0.048	0.050357	NA	NA	NA	NA	NA	NA	NA	0.5	0.5	6.52	6.85	NA	NA	NA	
Aug-05	0.052	0.0549	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.45	7.19	NA	NA	NA	
Sep-05	0.051	0.053	NA	1	240	240	240	NA	NA	NA	NA	6.43	6.62	0.5	0.5	1.2	
Oct-05	0.047	0.048	NA	NA	NA	NA	NA	0.88	0.88	1.97	1.97	6.5	6.7	NA	NA	NA	
Nov-05	0.042	0.043	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.2	6.6	NA	NA	NA	
Dec-05	0.0417	0.043	NA	1	0	0	0	NA	NA	NA	NA	6.5	6.6	1.5	1.5	4.4	
Jan-06	0.039	0.041	NA	NA	NA	NA	NA	NA	NA	0.5	0.5	6.5	6.8	NA	NA	NA	
Feb-06	0.038	0.0417	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.7	6.9	NA	NA	NA	
Mar-06	0.043	0.046	2.5	7.3	7.3	0	0	NA	NA	NA	NA	7	7.7	4.1	4.1	12	
Apr-06	0.041	0.048	NA	NA	NA	NA	NA	0.39	0.39	1.16	1.16	6.6	6.7	NA	NA	NA	
May-06	0.038	0.042	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.6	8	NA	NA	NA	
Jun-06	0.038	0.042	1.12	3.64	3.64	3	3	NA	NA	NA	NA	7.6	8	0.37	0.37	1.2	
Jul-06	0.038	0.039	NA	NA	NA	NA	NA	NA	NA	0.5	0.5	6.9	7.1	NA	NA	NA	
Aug-06	0.0473	0.0488	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.85	7.78	NA	NA	NA	
Sep-06	0.0468	0.0485	NA	1	22	22	22	NA	NA	NA	NA	6.8	6.9	NA	NA	2	
Totals																	
COUNT	28	28	2	9	9	10	10	2	2	9	9	28	28	5	5	9	
MIN	0.03	0.03	1.12	1.00	1.00	0.00	0.00	0.39	0.39	0.50	0.50	5.30	6.60	0.37	0.37	1.20	
AVG	0.04	0.04	1.81	1.99	1.99	72.90	72.90	0.64	0.64	0.74	0.74	6.80	7.18	1.37	1.37	3.16	
MAX	0.05	0.06	2.50	7.30	7.30	240.00	240.00	0.88	0.88	1.97	1.97	7.60	8.00	4.10	4.10	12.00	
STD DEV	0.01	0.01	0.98	2.17	2.17	90.23	90.23	0.35	0.35	0.51	0.51	0.47	0.44	1.59	1.59	3.45	

EDCC Outfall 006 DMR Data 1/04 - 10/06

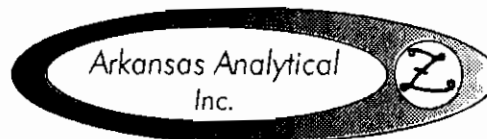
Date	Flow Quantity		Cadmium Concentration		Lead Concentration		Nitrogen, Ammonia as N Concentration		Oil and Grease Concentration		PH Concentration		Total Dissolved Solids Concentration		Total Suspended Solids Concentration		Zinc, Total Recoverable Concentration		
	Average	Max	Average	Max	Average	Max	Average	Max	Average	Max	Min	Max	Average	Max	Average	Max	Average	Max	
Jun-04	1.8009	2.682	3	3	45	45	193	345	<0.000001	<0.000001	3.4	6.4	640	640	44	140	1340	1340	
Jul-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug-04	1.625	2.8	0.5	0.5	11	11	125	221	0.5	0.5	4.01	6.3	150	150	125	140	111	111	
Sep-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oct-04	1	1.2	1.01	1.01	8.77	8.77	77	77.2	0.5	0.5	6	6.1	330	330	6	7.3	380	380	
Nov-04	1.3	1.3	0.5	0.5	13.4	13.4	33.1	33.1	0.5	0.5	5.21	5.21	120	120	70	70	264	264	
Dec-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jan-05	0.8	0.8	0.5	0.5	1.64	1.64	30.2	30.2	0.5	0.5	6.11	6.11	160	160	6	6	1.62	1.62	
Feb-05	1.2	1.2	0.713	0.713	15.7	15.7	76.6	76.6	0.5	0.5	6.46	6.46	120	120	120	120	0.292	0.292	
Mar-05	1.7	1.7	3.6	3.6	3.17	3.17	243	243	0.5	0.5	6.36	6.36	1200	1200	34	34	703	703	
Apr-05	2.6	2.6	0.5	0.5	16.9	16.9	48.4	48.4	1.4	1.4	6.4	6.4	230	230	140	140	212	212	
May-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jul-05	1.8	1.8	0.5	0.5	38.4	38.4	78	82.4	0.5	1	6.4	6.9	260	260	112	220	213	213	
Aug-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sep-05	0.851	0.851	3	3	13.8	13.8	215	215	0.5	0.5	6.3	6.3	1400	1400	66	66	633	633	
Oct-05	0.054	0.054	1	1	31.2	31.2	90.7	90.7	0.5	0.5	6.1	6.1	5400	5400	170	170	260	260	
Nov-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dec-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jan-06	0.7	0.85	1.71	1.71	22.7	22.7	232.7	469	1.4	2.6	6.7	6.8	400	400	40.9	80.8	567	567	
Feb-06	1.25	1.25	0.5	0.5	20.4	20.4	25.7	25.7	0.5	0.5	7	7	177	177	160	160	149	149	
Mar-06	1	1	0.5	0.5	71.5	71.5	15.6	15.6	1	1	7.3	7.3	300	300	270	270	285	285	
Apr-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
May-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jul-06	0.25	0.25	0.5	0.5	38	38	97.3	97.3	0.5	0.5	6.7	6.7	930	930	89	89	386	386	
Aug-06	0.02	0.02	0.5	0.5	2.5	2.5	105	105	0.5	0.5	6.9	6.9	810	810	82	82	557	557	
Sep-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oct-06	--	--	0.5	0.5	31	31	--	--	--	--	--	--	--	--	--	--	--	--	--
Totals																			
COUNT	16	16	17	17	17	17	16	16	15	15	16	16	16	16	16	16	16	17	17
MIN	0.02	0.02	0.50	0.50	1.64	1.64	15.60	15.60	0.50	0.50	3.40	5.21	120.00	120.00	6.00	6.00	0.29	0.29	
AVG	1.12	1.27	1.12	1.12	22.65	22.65	105.39	135.95	0.65	0.77	6.08	6.46	789.19	789.19	95.93	112.19	384.99	384.99	
MAX	2.60	2.80	3.60	3.60	71.50	71.50	243.00	469.00	1.40	2.60	7.30	7.30	5400.00	5400.00	270.00	270.00	1340.00	1340.00	
STD DEV	0.70	0.87	1.05	1.05	18.23	18.23	75.91	129.09	0.33	0.58	1.05	0.49	1293.91	1293.91	68.83	72.70	323.32	323.32	
GEOMEAN			1.69	1.69	15.24	15.24												171.09	171.09

EDCC Outfall 007 DMR Data 1/04 - 10/06

Date	Flow		Lead		Nitrogen, Ammonia as N		Oil and Grease		PH		Total Dissolved Solids		Total Suspended Solids		Zinc, Total Recoverable	
	Quantity	MGD	Average	Max	Average	Max	Average	Max	Min	Max	Average	Max	Average	Max	Average	Max
Jun-04	5.6489	10.6	49	49	23	48.3	<0000001	<0000001	2.7	6.2	770	770	15	48	1010	1010
Jul-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug-04	1.865	3.1	24	24	128	229	0.5	0.5	3.85	6.07	1500	1500	21	25	550	550
Sep-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oct-04	1.5	1.9	5.71	5.71	61.4	80.6	0.5	0.5	6.02	6.1	1800	1800	38	63	222	222
Nov-04	0.8	0.8	11.8	11.8	23	23	0.5	0.5	4.88	4.88	520	520	41	41	207	207
Dec-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jan-05	1.1	1.1	4.64	4.64	26.4	26.4	0.5	0.5	6.06	6.06	240	240	14	14	177	177
Feb-05	1.6	1.6	14.1	14.1	20.4	20.4	0.5	0.5	4.91	4.91	300	300	52	52	0.432	0.432
Mar-05	2.2	2.2	2.23	2.23	44.3	44.3	0.5	0.5	6.65	6.65	1600	1600	11	11	471	471
Apr-05	2.9	2.9	6.29	6.29	9.43	9.43	0.5	0.5	5	5	200	200	26	26	144	144
May-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jul-05	1.6	1.6	37.5	37.5	51.4	71.1	0.5	0.5	6.56	6.95	270	270	91	180	206	206
Aug-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sep-05	0.05	0.05	8.9	8.9	29	29	0.5	0.5	6.5	6.5	1100	1100	42	42	308	308
Oct-05	0.105	0.105	9.8	9.8	178	178	0.5	0.5	6.3	6.3	740	740	51	51	236	236
Nov-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dec-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jan-06	0.6	0.7	14.3	14.3	43	74.3	0.7	1.1	6.8	6.8	560	560	43.7	110	189	189
Feb-06	1.25	1.25	28.8	28.8	25.7	25.7	0.5	0.5	6.9	6.9	3900	3900	190	190	149	149
Mar-06	1	1	68.9	68.9	11.4	11.4	1.7	1.7	7.4	7.4	360	360	210	210	268	268
Apr-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
May-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jul-06	0.25	0.25	12	12	172	172	0.5	0.5	6.7	6.7	1400	1400	26	26	115	115
Aug-06	0.02	0.02	6	6	13.7	13.7	0.5	0.5	6.7	6.8	410	410	43	57	133	133
Sep-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oct-06	--	--	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--
Totals	16	16	17	17	16	16	15	15	16	16	16	16	16	16	166	166
COUNT	16	16	17	17	16	16	15	15	16	16	16	16	16	16	17	17
MIN	0.02	0.02	0.50	0.50	9.43	9.43	0.50	0.50	2.70	4.88	200.00	200.00	11.00	11.00	0.43	0.43
AVG	1.41	1.82	17.91	17.91	53.76	66.04	0.59	0.62	5.87	6.26	979.38	979.38	57.17	71.63	267.73	267.73
MAX	5.65	10.60	68.90	68.90	178.00	229.00	1.70	1.70	7.40	7.40	3900.00	3900.00	210.00	210.00	1010.00	1010.00
STD DEV	1.40	2.53	18.55	18.55	55.21	67.75	0.31	0.34	1.27	0.76	943.96	943.96	59.15	64.90	230.66	230.66
GEOMEAN			10.54												162.39	

05 October 2006

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Project: El Dorado Chemical Co.



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

Date Received: 21-Sep-06 10:06

ANALYTICAL RESULTS

Lab Number: 0609190-01
Sample Name: 003-1; Outfall 003
Date/Time Collected: 9/20/06 11:55
Sample Matrix: Water

<u>Wet Chemistry</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
BOD	mg/L	< 2.00	9/21/06 13:00	A609262	EPA 405.1
Oil and Grease	mg/L	< 1.0	9/21/06 17:00	A609225	EPA 1664A

ANALYTICAL RESULTS

Lab Number: 0609190-02
Sample Name: 001-1B; Outfall 001 Blank
Date/Time Collected: 9/20/06 12:25
Sample Matrix: Water

<u>Mercury 245.1/7470A</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Mercury	ug/L	< 0.200	9/27/06 11:19	A609264	EPA 245.1/7470A

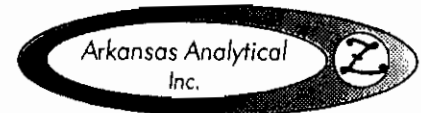
<u>Metals</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Hexavalent Chromium	mg/L	< 0.0100	9/21/06 9:00	A609288	EPA 7196A

<u>Total Metals</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Antimony	ug/L	< 60.0	9/25/06 16:32	A609250	EPA 200.7
Arsenic	ug/L	< 10.0	9/26/06 15:09	A609251	EPA 200.7
Lead	ug/L	< 5.00	9/26/06 15:09	A609251	EPA 200.7
Silver	ug/L	< 2.00	9/26/06 15:09	A609251	EPA 272.2
Beryllium	ug/L	< 5.00	9/25/06 16:31	A609250	EPA 200.7
Cadmium	ug/L	< 1.00	9/25/06 16:32	A609250	EPA 200.7
Chromium	ug/L	< 10.0	9/25/06 16:31	A609250	EPA 200.7
Copper	ug/L	< 10.0	9/25/06 16:30	A609250	EPA 200.7
Nickel	ug/L	< 40.0	9/25/06 16:31	A609250	EPA 200.7
Zinc	ug/L	< 20.0	9/25/06 16:31	A609250	EPA 200.7

<u>Total Metals by GFAA</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Selenium	ug/L	< 5.00	9/26/06 15:09	A609251	EPA 270.2
Thallium	ug/L	< 10.0	9/26/06 15:09	A609251	EPA 279.2

05 October 2006

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Date Received: 21-Sep-06 10:06

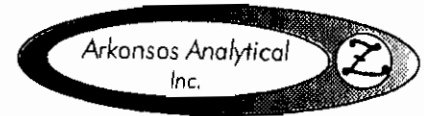
ANALYTICAL RESULTS

Lab Number: 0609190-03
Sample Name: 001-1; Outfall 001
Date/Time Collected: 9/20/06 12:30
Sample Matrix: Water

<u>BNA Compounds 625</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
4-Chloro-3-methylphenol	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
2-Chlorophenol	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Acenaphthene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
2,4-Dichlorophenol	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Acenaphthylene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
2,4-Dimethylphenol	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Anthracene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
4,6-Dinitro-o-cresol	ug/L	< 50.0	9/24/06 18:12	A609220	EPA 625/8270C
Benzidine	ug/L	< 50.0	9/24/06 18:12	A609220	EPA 625/8270C
2,4-Dinitrophenol	ug/L	< 50.0	9/24/06 18:12	A609220	EPA 625/8270C
Benz(a)anthracene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
2-Nitrophenol	ug/L	< 20.0	9/24/06 18:12	A609220	EPA 625/8270C
Benzo[a]pyrene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
4-Nitrophenol	ug/L	< 50.0	9/24/06 18:12	A609220	EPA 625/8270C
Benzo[b]fluoranthene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Benzo[g,h,i]perylene	ug/L	< 20.0	9/24/06 18:12	A609220	EPA 625/8270C
p-Chloro-m-cresol	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Benzo[k]fluoranthene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Pentachlorophenol	ug/L	< 50.0	9/24/06 18:12	A609220	EPA 625/8270C
Bis(2-chloroethoxy)methane	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Phenol	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
2,4,6-Trichlorophenol	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Bis(2-chloroethyl)ether	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Bis(2-chloroisopropyl)ether	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Bis(2-ethylhexyl)phthalate	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
4-Bromophenyl-phenylether	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Butylbenzylphthalate	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
2-Chloronaphthalene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
4-Chlorophenyl-phenylether	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Chrysene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Dibenz[a,h]anthracene	ug/L	< 20.0	9/24/06 18:12	A609220	EPA 625/8270C
1,2-Dichlorobenzene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
1,3-Dichlorobenzene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
1,4-Dichlorobenzene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
3,3-Dichlorobenzidine	ug/L	< 50.0	9/24/06 18:12	A609220	EPA 625/8270C
Diethylphthalate	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Dimethylphthalate	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Di-n-butylphthalate	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
2,4-Dinitrotoluene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
2,6-Dinitrotoluene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Di-n-octylphthalate	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C

05 October 2006

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Date Received: 21-Sep-06 10:06

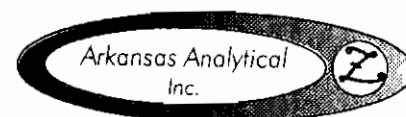
ANALYTICAL RESULTS

Lab Number: 0609190-03
Sample Name: 001-1; Outfall 001
Date/Time Collected: 9/20/06 12:30
Sample Matrix: Water

<u>BNA Compounds 625</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
1,2-Diphenyl Hydrazine	ug/L	< 20.0	9/24/06 18:12	A609220	EPA 625/8270C
Fluoranthene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Fluorene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Hexachlorobenzene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Hexachlorobutadiene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Hexachlorocyclopentadiene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Hexachloroethane	ug/L	< 20.0	9/24/06 18:12	A609220	EPA 625/8270C
Indeno[1,2,3-cd]pyrene	ug/L	< 20.0	9/24/06 18:12	A609220	EPA 625/8270C
Isophorone	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Naphthalene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Nitrobenzene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
N-Nitrosodimethylamine	ug/L	< 50.0	9/24/06 18:12	A609220	EPA 625/8270C
N-Nitroso-di-n-propylamine	ug/L	< 20.0	9/24/06 18:12	A609220	EPA 625/8270C
N-Nitrosodiphenylamine	ug/L	< 20.0	9/24/06 18:12	A609220	EPA 625/8270C
Phenanthrene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
1,2,4-Trichlorobenzene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Pyrene	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
2,3,7,8-TCDD Screen	ug/L	< 10.0	9/24/06 18:12	A609220	EPA 625/8270C
Nitrobenzene-d5 [surr]	%	49.8	9/24/06 18:12	A609220	EPA 625/8270C
2-Fluorobiphenyl [surr]	%	43.5	9/24/06 18:12	A609220	EPA 625/8270C
Terphenyl-d14 [surr]	%	76.8	9/24/06 18:12	A609220	EPA 625/8270C
2-Fluorophenol [surr]	%	51.2	9/24/06 18:12	A609220	EPA 625/8270C
Phenol-d5 [surr]	%	40.5	9/24/06 18:12	A609220	EPA 625/8270C
2,4,6-Tribromophenol [surr]	%	59.8	9/24/06 18:12	A609220	EPA 625/8270C
<u>Classical Chemistry Parameters</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Total Phosphorus	mg/L	0.235	9/28/06 14:11	A609297	EPA 365.3
<u>Mercury 245.1/7470A</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Mercury	ug/L	< 0.200	9/27/06 11:19	A609264	EPA 245.1/7470A
<u>Metals</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Hexavalent Chromium	mg/L	< 0.0100	9/21/06 9:00	A609288	EPA 7196A/
<u>Pesticides/PCBs</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Aldrin	ug/L	< 0.050	9/26/06 14:51	A609227	EPA 608/8141A
alpha-BHC	ug/L	< 0.050	9/26/06 14:51	A609227	EPA 608/8141A
beta-BHC	ug/L	< 0.050	9/26/06 14:51	A609227	EPA 608/8141A
gamma-BHC (Lindane)	ug/L	< 0.050	9/26/06 14:51	A609227	EPA 608/8141A
delta-BHC	ug/L	< 0.050	9/26/06 14:51	A609227	EPA 608/8141A
Chlordane	ug/L	< 0.200	9/26/06 14:51	A609227	EPA 608/8141A
4,4'-DDT	ug/L	< 0.100	9/26/06 14:51	A609227	EPA 608/8141A

05 October 2006

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219 Brown Lane
Bryant, AR 72022, AR 72022
Project: El Dorado Chemical Co.



Date Received: 21-Sep-06 10:06

ANALYTICAL RESULTS

Lab Number: 0609190-03
Sample Name: 001-1; Outfall 001
Date/Time Collected: 9/20/06 12:30
Sample Matrix: Water

<u>Pesticides/PCBs</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
4,4'-DDE	ug/L	< 0.100	9/26/06 14:51	A609227	EPA 608/8141A
4,4'-DDD	ug/L	< 0.100	9/26/06 14:51	A609227	EPA 608/8141A
Dieldrin	ug/L	< 0.100	9/26/06 14:51	A609227	EPA 608/8141A
Endosulfan I	ug/L	< 0.100	9/26/06 14:51	A609227	EPA 608/8141A
Endosulfan II	ug/L	< 0.100	9/26/06 14:51	A609227	EPA 608/8141A
Endosulfan sulfate	ug/L	< 0.100	9/26/06 14:51	A609227	EPA 608/8141A
Endrin	ug/L	< 0.100	9/26/06 14:51	A609227	EPA 608/8141A
Endrin aldehyde	ug/L	< 0.100	9/26/06 14:51	A609227	EPA 608/8141A
Heptachlor	ug/L	< 0.050	9/26/06 14:51	A609227	EPA 608/8141A
Heptachlor epoxide	ug/L	< 1.00	9/26/06 14:51	A609227	EPA 608/8141A
Chlorpyrifos	ug/L	< 0.070	9/26/06 14:51	A609227	EPA 608/8141A
Aroclor-1242	ug/L	< 1.00	9/26/06 14:51	A609227	EPA 608/8141A
Aroclor-1254	ug/L	< 1.00	9/26/06 14:51	A609227	EPA 608/8141A
Aroclor-1221	ug/L	< 1.00	9/26/06 14:51	A609227	EPA 608/8141A
Aroclor-1232	ug/L	< 1.00	9/26/06 14:51	A609227	EPA 608/8141A
Aroclor-1248	ug/L	< 1.00	9/26/06 14:51	A609227	EPA 608/8141A
Aroclor-1260	ug/L	< 1.00	9/26/06 14:51	A609227	EPA 608/8141A
Aroclor-1016	ug/L	< 1.00	9/26/06 14:51	A609227	EPA 608/8141A
Toxaphene	ug/L	< 5.00	9/26/06 14:51	A609227	EPA 608/8141A
TCMX [surr]	%	50.6	9/26/06 14:51	A609227	EPA 608/8141A
DCBP [surr]	%	99.4	9/26/06 14:51	A609227	EPA 608/8141A

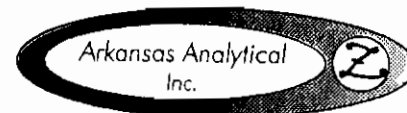
<u>Total Metals</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Antimony	ug/L	< 60.0	9/25/06 16:36	A609250	EPA 200.7
Arsenic	ug/L	< 10.0	9/26/06 15:09	A609251	EPA 200.7
Lead	ug/L	< 5.00	9/26/06 15:09	A609251	EPA 200.7
Silver	ug/L	< 2.00	9/26/06 15:09	A609251	EPA 272.2
Beryllium	ug/L	< 5.00	9/25/06 16:35	A609250	EPA 200.7
Cadmium	ug/L	< 1.00	9/25/06 16:36	A609250	EPA 200.7
Chromium	ug/L	< 10.0	9/25/06 16:35	A609250	EPA 200.7
Copper	ug/L	< 10.0	9/25/06 16:34	A609250	EPA 200.7
Nickel	ug/L	< 40.0	9/25/06 16:35	A609250	EPA 200.7
Zinc	ug/L	< 20.0	9/25/06 16:35	A609250	EPA 200.7

<u>Total Metals by GFAA</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Selenium	ug/L	< 5.00	9/26/06 15:09	A609251	EPA 270.2
Thallium	ug/L	< 10.0	9/26/06 15:09	A609251	EPA 279.2

<u>Volatiles</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Acrolein	ug/L	< 50.0	9/25/06 18:44	A609252	EPA 624
Acrylonitrile	ug/L	< 50.0	9/25/06 18:44	A609252	EPA 624
Benzene	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624

05 October 2006

Kyle Hathcote
GBMC & Associates
219 Brown Lane
Bryant, AR 72022, AR 72022
Project: El Dorado Chemical Co.



Date Received: 21-Sep-06 10:06

ANALYTICAL RESULTS

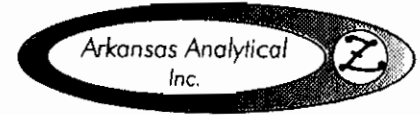
Lab Number: 0609190-03
Sample Name: 001-1; Outfall 001
Date/Time Collected: 9/20/06 12:30
Sample Matrix: Water

<u>Volatiles</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Bromoform	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
Carbon tetrachloride	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
Chlorobenzene	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
Chlorodibromomethane	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
Chloroethane	ug/L	< 50.0	9/25/06 18:44	A609252	EPA 624
2-Chloroethyl vinyl ether	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
Chloroform	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
Bromodichloromethane	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
1,1-Dichloroethane	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
1,2-Dichloroethane	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
1,1-Dichloroethene	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
1,2-Dichloropropane	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
cis-1,3-Dichloropropene	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
Ethylbenzene	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
Bromomethane	ug/L	< 50.0	9/25/06 18:44	A609252	EPA 624
Chloromethane	ug/L	< 50.0	9/25/06 18:44	A609252	EPA 624
Methylene chloride	ug/L	< 20.0	9/25/06 18:44	A609252	EPA 624
1,1,2,2-Tetrachloroethane	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
Tetrachloroethene	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
Toluene	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
trans-1,2-Dichloroethene	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
1,1,1-Trichloroethane	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
1,1,2-Trichloroethane	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
Trichloroethene	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
Vinyl chloride	ug/L	< 10.0	9/25/06 18:44	A609252	EPA 624
Dibromofluoromethane [surr]	%	101	9/25/06 18:44	A609252	EPA 624
Toluene-d8 [surr]	%	102	9/25/06 18:44	A609252	EPA 624
4-Bromofluorobenzene [surr]	%	104	9/25/06 18:44	A609252	EPA 624

<u>Wet Chemistry</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
BOD	mg/L	7.14	9/21/06 13:00	A609262	EPA 405.1
COD	mg/L	35.5	9/25/06 15:25	A609256	EPA 410.4
Cyanide (total)	mg/L	< 0.020	9/26/06 17:09	A609273	EPA 335.2/9014
Oil and Grease	mg/L	< 1.0	9/21/06 17:00	A609225	EPA 1664A
Phenolics	mg/L	< 0.0050	9/27/06 11:19	A609281	EPA 420.1/9065
TKN	mg/L	7.50	9/26/06 15:30	A609267	EPA 351.3
TOC	mg/L	9.12	9/25/06 15:00	A609257	EPA 415.1/9060A

05 October 2006

Kyle Hathcote
GBMC & Associates
219 Brown Lane
Bryant, AR 72022, AR 72022
Project: El Dorado Chemical Co.



Date Received: 21-Sep-06 10:06

QUALITY CONTROL RESULTS

BNA Compounds 625

Batch: A609220 (Water); Prepared: 21-Sep-06 13:45

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>	<u>MS</u>	<u>MSD/RPD</u>
1,2,4-Trichlorobenzene	< 10.0 ug/L	40.2 %	39.8 % / 1.25	40.8 %	31.0 % / 27.1
1,4-Dichlorobenzene	< 10.0 ug/L	37.5 %	36.8 % / 2.02	38.8 %	29.2 % / 28.4 *(D)
2,4,6-Tribromophenol	93.0 %	56.5 %	65.0 %	86.0 %	52.5 %
2,4-Dinitrotoluene	< 10.0 ug/L	48.5 %	50.8 % / 4.53	57.5 %	41.8 % / 31.6 *(D)
2-Chlorophenol	< 10.0 ug/L	49.5 %	54.0 % / 8.70	60.0 %	49.1 % / 20.0
2-Fluorobiphenyl	62.8 %	41.5 %	44.5 %	51.5 %	37.8 %
2-Fluorophenol	68.0 %	46.2 %	56.8 %	53.5 %	47.2 %
4-Chloro-3-methylphenol	< 10.0 ug/L	64.5 %	66.2 % / 2.68	75.5 %	55.0 % / 31.4 *(D)
4-Nitrophenol	< 50.0 ug/L	33.2 %	35.5 % / 6.55	41.6 %	50.5 % / 19.2
Acenaphthene	< 10.0 ug/L	42.0 %	45.5 % / 8.00	47.2 %	38.0 % / 21.4
Nitrobenzene-d5	64.5 %	47.8 %	40.2 %	53.0 %	40.8 %
N-Nitroso-di-n-propylamine	< 20.0 ug/L	51.0 %	47.8 % / 6.58	53.0 %	44.0 % / 18.6
Pentachlorophenol	< 50.0 ug/L	68.8 %	66.0 % / 4.08	62.0 %	57.0 % / 8.40
Phenol	< 10.0 ug/L	37.2 %	40.2 % / 7.74	38.4 %	39.0 % / 1.42
Phenol-d5	61.5 %	42.0 %	44.8 %	44.2 %	37.8 %
Pyrene	< 10.0 ug/L	53.2 %	64.8 % / 19.5	81.0 %	63.5 % / 24.2
Terphenyl-d14	87.8 %	71.2 %	79.8 %	83.5 %	70.0 %

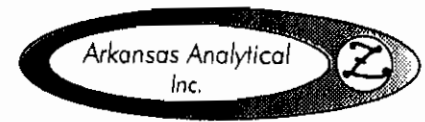
Wet Chemistry

Batch: A609225 (Water); Prepared: 21-Sep-06 17:00

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>	<u>MS</u>
Oil and Grease	< 1.0 mg/L	98.0 %	91.5 % / 4.77	86.6 %

05 October 2006

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219 Brown Lane
Bryant, AR 72022, AR 72022
Project: El Dorado Chemical Co.



Date Received: 21-Sep-06 10:06

QUALITY CONTROL RESULTS

Pesticides/PCBs

Batch: A609227 (Water); Prepared: 22-Sep-06 09:19

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>	<u>MS</u>	<u>MSD/RPD</u>
4,4'-DDT	< 0.100 ug/L	71.2 %	68.8 % / 3.43	79.3 %	71.3 % / 10.6
Aldrin	< 0.050 ug/L	62.0 %	65.0 % / 4.72	75.2 %	67.2 % / 10.6
DCBP	76.4 %	63.2 %	52.4 %	92.1 %	99.0 %
Dieldrin	< 0.100 ug/L	64.6 %	65.2 % / 0.924	76.3 %	74.9 % / 1.85
Endrin	< 0.100 ug/L	59.2 %	58.8 % / 0.678	66.5 %	64.6 % / 2.90
gamma-BHC (Lindane)	< 0.050 ug/L	69.0 %	70.0 % / 1.44	64.2 %	73.5 % / 12.8
Heptachlor	< 0.050 ug/L	83.0 %	76.5 % / 8.15	89.2 %	80.5 % / 9.87
TCMX	72.4 %	56.4 %	62.8 %	74.5 %	62.0 %

Total Metals

Batch: A609250 (Water); Prepared: 25-Sep-06 08:39

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>	<u>MS</u>	<u>MSD/RPD</u>
Antimony	< 60.0 ug/L	107 %	99.2 % / 7.38	112 %	109 % / 2.35
Beryllium	< 5.00 ug/L	98.1 %	98.3 % / 0.204	96.9 %	96.1 % / 0.829
Cadmium	< 1.00 ug/L	88.5 %	88.5 % / 0.00	105 %	104 % / 1.44
Chromium	< 10.0 ug/L	109 %	108 % / 0.369	103 %	103 % / 0.777
Copper	< 10.0 ug/L	95.2 %	86.2 % / 9.92	97.6 %	95.4 % / 2.28
Nickel	< 40.0 ug/L	97.0 %	96.4 % / 0.620	91.4 %	88.2 % / 3.52
Zinc	< 20.0 ug/L	107 %	107 % / 0.00	104 %	103 % / 0.758

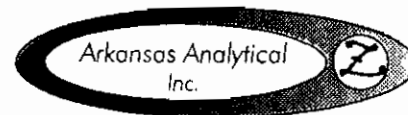
Total Metals

Batch: A609251 (Water); Prepared: 25-Sep-06 08:38

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>	<u>MS</u>	<u>MSD/RPD</u>
Arsenic	< 10.0 ug/L	90.6 %	94.0 % / 3.68	92.8 %	94.2 % / 1.50
Lead	< 5.00 ug/L	105 %	108 % / 0.951	94.2 %	91.4 % / 2.81
Selenium	< 5.00 ug/L	93.8 %	94.8 % / 1.06	78.4 %	79.2 % / 1.02
Silver	< 2.00 ug/L	86.8 %	91.4 % / 5.16	85.2 %	86.8 % / 1.86
Thallium	< 10.0 ug/L	86.8 %	92.6 % / 6.47	89.0 %	82.2 % / 6.84

05 October 2006

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GBMC & Associates
219 Brown Lane
Bryant, AR 72022, AR 72022
Project: El Dorado Chemical Co.



Date Received: 21-Sep-06 10:06

QUALITY CONTROL RESULTS

Volatiles

Batch: A609252 (Water); Prepared: 25-Sep-06 08:14

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>	<u>MS</u>	<u>MSD/RPD</u>
1,1-Dichloroethene	< 10.0 ug/L	92.0 %	96.0 % / 4.26	102 %	102 % / 0.170
4-Bromofluorobenzene	99.1 %	93.8 %	102 %	98.7 %	102 %
Benzene	< 10.0 ug/L	98.0 %	103 % / 5.36	96.7 %	103 % / 6.27
Chlorobenzene	< 10.0 ug/L	98.4 %	103 % / 4.18	102 %	101 % / 0.513
Dibromofluoromethane	103 %	104 %	98.2 %	99.1 %	102 %
Toluene	< 10.0 ug/L	96.2 %	101 % / 4.67	104 %	102 % / 2.03
Toluene-d8	106 %	107 %	104 %	102 %	103 %
Trichloroethene	< 10.0 ug/L	104 %	107 % / 2.27	110 %	105 % / 3.88

Wet Chemistry

Batch: A609256 (Water); Prepared: 25-Sep-06 10:30

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>	<u>MS</u>	<u>MSD/RPD</u>
COD	< 10.0 mg/L	106 %	109 % / 2.51	98.1 %	106 % / 5.10

Wet Chemistry

Batch: A609257 (Water); Prepared: 25-Sep-06 15:00

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>	<u>MS</u>	<u>MSD/RPD</u>
TOC	< 1.00 mg/L	91.0 %	93.8 % / 3.03	107 %	

Wet Chemistry

Batch: A609262 (Water); Prepared: 21-Sep-06 13:00

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>	<u>MS</u>	<u>MSD/RPD</u>
BOD	< 2.00 mg/L	93.9 %	90.4 % / 3.84		

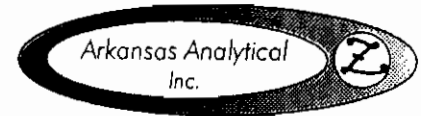
Mercury 245.1/7470A

Batch: A609264 (Water); Prepared: 26-Sep-06 11:00

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>	<u>MS</u>	<u>MSD/RPD</u>
Mercury	< 0.200 ug/L	99.6 %	96.8 % / 2.85	102 %	102 % / 0.393

05 October 2006

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219 Brown Lane
Bryant, AR 72022, AR 72022
Project: El Dorado Chemical Co.



Date Received: 21-Sep-06 10:06

QUALITY CONTROL RESULTS

Wet Chemistry

Batch: A609267 (Water); Prepared: 25-Sep-06 10:00

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>	<u>MS</u>	<u>MSD/RPD</u>
TKN	< 0.500 mg/L	101 %	103 % / 2.43	100 %	101 % / 0.787

Wet Chemistry

Batch: A609273 (Water); Prepared: 26-Sep-06 09:00

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>	<u>MS</u>	
Cyanide (total)	< 0.010 mg/L	101 %	101 % / 0.264	112 %	

Wet Chemistry

Batch: A609281 (Water); Prepared: 26-Sep-06 14:00

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>	<u>MS</u>	
Phenolics	< 0.0050 mg/L	105 %	99.7 % / 5.47	114 %	

Metals

Batch: A609288 (Water); Prepared: 21-Sep-06 09:00

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>	<u>MS</u>	<u>MSD/RPD</u>
Hexavalent Chromium	< 0.0100 mg/L	98.0 %	102 % / 4.00	92.0 %	92.0 % / 0.00

Classical Chemistry Parameters

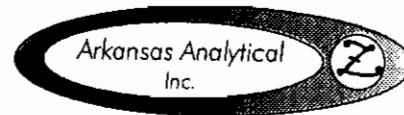
Batch: A609297 (Water); Prepared: 28-Sep-06 09:00

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>	<u>MS</u>	<u>MSD/RPD</u>
Total Phosphorus	< 0.020 mg/L	100 %	96.0 % / 4.06	98.0 %	102 % / 2.06

*D: RPD value does not meet laboratory acceptance criteria

05 October 2006

Kyle Hathcote
GBMC & Associates
219 Brown Lane
Bryant, AR 72022, AR 72022
Project: El Dorado Chemical Co.



Date Received: 21-Sep-06 10:06

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, appearing to read "Bruce Yancey", is written over a horizontal line.

Reviewed by:

Bruce Yancey
Lab Manager

GBM^c & Associates

Strategic Environmental Services

219 Brown Ln.
Bryant, AR 72022

(501) 847-7077 Fax (501) 847-7943

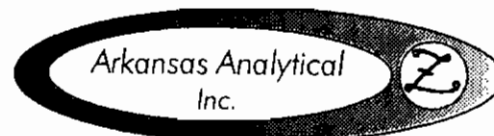
Chain of Custody

CLIENT INFORMATION				BILLING INFORMATION				SPECIAL INSTRUCTIONS/REMARKS							
Company:		GBMC & Associates		Bill To:		Wes Morgan		Use PPS detection limits listed on PPS attachment							
Project Name/No.:		2042-99-010		Company:		El Dorado Chemical Co.		For all PPS parameters. Please call with any questions (847-7077).							
Send Report To:		Kyle Hathcote		Address:		4500 North West Avenue		Parameters for Analysis/Methods							
Address:		219 Brown Lane		Phone No.:		El Dorado, AR 71731									
Phone/Fax No.:		Bryant, AR 72022		Phone No.:		(870) 863-1484		BOD	Oil & Grease	PPS metals	COD	TOC	TKN	Total Phosphorus	(attachment)
Sample ID		Sample Description		Date		Time		Matrix S=Seal/Soil W=Water		Number of Containers		Composite or Grab			
003-1	Outfall 003	9/20/06	1155	W	2	G		X							
001-1B	Outfall 001 Blank	9/20/06	1225	W	1	G		X							
001-1	Outfall 001	9/20/06	1230	W	12	G		X							
Preservative		(Sulfuric acid =S, Nitric acid =N, NaOH =B, Ice =I)													
Sampler(s): SKH/JBB		Shipment Method:				Turnaround Time Required: Normal									
COC Completed by: <i>SKH</i>		Date: 9/21/04		Time: 0930		COC Checked by: <i>SKH</i>		Date: 9/21/04		Time: 0745					
Relinquished by: <i>SKH</i>		Date: 9/21/06		Time: 1006		Received by: <i>SKH</i>		Date: _____		Time: _____					
Relinquished by: _____		Date: _____		Time: _____		Received in lab by: <i>SKH</i>		Date: 9-21-06		Time: 10:06					
LABORATORY USE ONLY:				Samples Received On Ice?: <input checked="" type="checkbox"/> YES or NO				Sample Temperature: <i>10°C</i>							

09191
01
02
03

29 November 2006

Kyle Hathcote
GBMC & Associates
219 Brown Lane
Bryant, AR 72022
Project: El Dorado Chemical Stormwaters



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

Date Received: 26-Oct-06 11:00

ANALYTICAL RESULTS

Lab Number: 0610254-01
Sample Name: 006G; Outfall 006
Date/Time Collected: 10/25/06 10:10
Sample Matrix: Water

<u>Total Metals 200.7</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Cadmium	mg/L	0.002	10/30/06 15:12	A610329	EPA 200.7
Zinc	mg/L	0.363	10/30/06 15:11	A610329	EPA 200.7
<u>Total Metals by GFAA</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Lead	mg/L	0.013	11/28/06 12:40	A610330	EPA 239.2/7421
Selenium	mg/L	< 0.002	11/28/06 12:42	A610330	EPA 270.2/7740A

ANALYTICAL RESULTS

Lab Number: 0610254-02
Sample Name: 007G; Outfall 007
Date/Time Collected: 10/25/06 10:40
Sample Matrix: Water

<u>Total Metals 200.7</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Cadmium	mg/L	< 0.001	10/30/06 15:16	A610329	EPA 200.7
Zinc	mg/L	0.112	10/30/06 15:15	A610329	EPA 200.7
<u>Total Metals by GFAA</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Lead	mg/L	< 0.005	11/28/06 12:40	A610330	EPA 239.2/7421
Selenium	mg/L	< 0.002	11/28/06 12:42	A610330	EPA 270.2/7740A

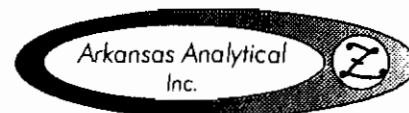
ANALYTICAL RESULTS

Lab Number: 0610254-03
Sample Name: FBlank; Field Blank
Date/Time Collected: 10/25/06 10:40
Sample Matrix: Water

<u>Total Metals 200.7</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Cadmium	mg/L	< 0.001	10/30/06 15:31	A610329	EPA 200.7
Zinc	mg/L	< 0.020	10/30/06 15:30	A610329	EPA 200.7
<u>Total Metals by GFAA</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Lead	mg/L	< 0.005	11/28/06 12:40	A610330	EPA 239.2/7421
Selenium	mg/L	< 0.002	11/28/06 12:42	A610330	EPA 270.2/7740A

29 November 2006

Kyle Hathcote
GBMC & Associates
219 Brown Lane
Bryant, AR 72022
Project: El Dorado Chemical Stormwaters



Date Received: 26-Oct-06 11:00

ANALYTICAL RESULTS

Lab Number: 0610254-06
Sample Name: 006C; Outfall 006 Metal Comp
Date/Time Collected: 10/25/06 16:10
Sample Matrix: Water

<u>Total Metals 200.7</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Cadmium	mg/L	0.001	10/30/06 15:35	A610329	EPA 200.7
Zinc	mg/L	0.483	10/30/06 15:34	A610329	EPA 200.7
<u>Total Metals by GFAA</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Lead	mg/L	0.024	11/28/06 12:40	A610330	EPA 239.2/7421
Selenium	mg/L	< 0.002	11/28/06 12:42	A610330	EPA 270.2/7740A

ANALYTICAL RESULTS

Lab Number: 0610254-07
Sample Name: 007C; Outfall 007 Metal Comp
Date/Time Collected: 10/25/06 16:10
Sample Matrix: Water

<u>Total Metals 200.7</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Cadmium	mg/L	< 0.001	10/30/06 15:39	A610329	EPA 200.7
Zinc	mg/L	0.166	10/30/06 15:38	A610329	EPA 200.7
<u>Total Metals by GFAA</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Lead	mg/L	< 0.005	11/28/06 12:40	A610330	EPA 239.2/7421
Selenium	mg/L	< 0.002	11/28/06 12:42	A610330	EPA 270.2/7740A

QUALITY CONTROL RESULTS

Total Metals 200.7
Batch: A610329 (Water); Prepared: 30-Oct-06 09:20

	<u>Blank</u>	<u>LCS</u>	<u>MS</u>	<u>MSD/RPD</u>
Cadmium	< 0.001 mg/L	92.0 %	85.5 %	87.0 % / 1.74
Zinc	< 0.020 mg/L	90.2 %	88.8 %	92.4 % / 3.77

Total Metals by GFAA
Batch: A610330 (Water); Prepared: 30-Oct-06 09:23

	<u>Blank</u>	<u>LCS</u>	<u>MS</u>	<u>MSD/RPD</u>
Lead	< 0.005 mg/L	99.0 %	98.6 %	96.2 % / 2.46
Selenium	< 0.001 mg/L	96.2 %	86.0 %	86.8 % / 0.926

29 November 2006

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219 Brown Lane
Bryant, AR 72022
Project: El Dorado Chemical Stormwaters



Date Received: 26-Oct-06 11:00

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.

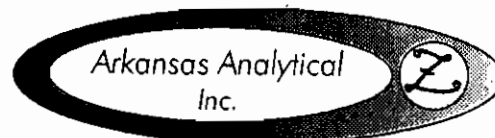
A handwritten signature in cursive script that reads "Norma James".

Reviewed by: _____

Norma James
President

06 November 2006

Kyle Hathcote
GBMC & Associates
219 Brown Lane
Bryant, AR 72022
Project: El Dorado Chemical Stormwaters



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

Date Received: 26-Oct-06 11:00

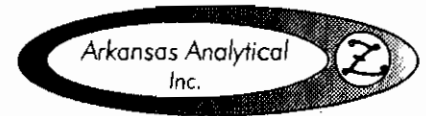
ANALYTICAL RESULTS

Lab Number: 0610264-01
Sample Name: 006G; Outfall 006
Date/Time Collected: 10/25/06 10:10
Sample Matrix: Water

<u>Anions</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Chloride	mg/L	7.63	10/26/06 13:04	A610307	EPA 300.0
Sulfate as SO4	mg/L	73.0	10/26/06 14:35	A610307	EPA 300.0
Nitrate as N	mg/L	264	10/26/06 14:35	A610307	EPA 300.0
<u>Total Metals 200.7</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Cadmium	mg/L	< 0.005	10/30/06 15:12	A610329	EPA 200.7
Copper	mg/L	0.059	10/30/06 15:11	A610329	EPA 200.7
Lead	mg/L	< 0.015	10/30/06 15:12	A610329	EPA 200.7
Phosphorus	mg/L	0.157	10/30/06 15:12	A610329	EPA 200.7
Selenium	mg/L	< 0.050	10/30/06 15:11	A610329	EPA 200.7
Zinc	mg/L	0.363	10/30/06 15:11	A610329	EPA 200.7
<u>Wet Chemistry</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Ammonia as N	mg/L	60.3	10/31/06 15:00	A610357	EPA 350.3
BOD	mg/L	< 2.00	10/26/06 12:20	A610351	EPA 405.1
COD	mg/L	37.8	10/30/06 14:20	A610338	EPA 410.4
Oil and Grease	mg/L	< 1.0	10/27/06 10:00	A610324	EPA 1664A
TDS	mg/L	1100	10/27/06 16:30	A610346	EPA 160.1
TKN	mg/L	42.6	10/31/06 16:45	A611001	EPA 351.3
TSS	mg/L	54	10/27/06 13:10	A610328	EPA 160.2

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Date Received: 26-Oct-06 11:00

ANALYTICAL RESULTS

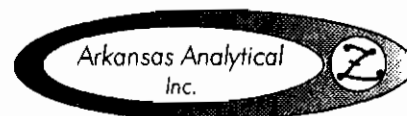
Lab Number:	0610254-02				
Sample Name:	007G; Outfall 007				
Date/Time Collected:	10/25/06 10:40				
Sample Matrix:	Water				
<u>Anions</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Chloride	mg/L	6.24	10/26/06 15:43	A610307	EPA 300.0
Sulfate as SO4	mg/L	83.6	10/26/06 15:43	A610307	EPA 300.0
Nitrate as N	mg/L	162	10/26/06 16:01	A610307	EPA 300.0
<u>Total Metals 200.7</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Cadmium	mg/L	< 0.005	10/30/06 15:16	A610329	EPA 200.7
Copper	mg/L	0.018	10/30/06 15:15	A610329	EPA 200.7
Lead	mg/L	< 0.015	10/30/06 15:16	A610329	EPA 200.7
Phosphorus	mg/L	0.040	10/30/06 15:16	A610329	EPA 200.7
Selenium	mg/L	< 0.050	10/30/06 15:14	A610329	EPA 200.7
Zinc	mg/L	0.112	10/30/06 15:15	A610329	EPA 200.7
<u>Wet Chemistry</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Ammonia as N	mg/L	36.1	10/31/06 15:00	A610357	EPA 350.3
BOD	mg/L	2.06	10/27/06 9:30	A611014	EPA 405.1
COD	mg/L	32.5	10/30/06 14:20	A610338	EPA 410.4
Oil and Grease	mg/L	< 1.0	10/27/06 10:00	A610324	EPA 1664A
TDS	mg/L	1900	10/27/06 16:30	A610346	EPA 160.1
TKN	mg/L	21.3	10/31/06 16:45	A611001	EPA 351.3
TSS	mg/L	7.2	10/27/06 13:10	A610328	EPA 160.2

ANALYTICAL RESULTS

Lab Number:	0610254-03				
Sample Name:	FBlank; Field Blank				
Date/Time Collected:	10/25/06 10:40				
Sample Matrix:	Water				
<u>Total Metals 200.7</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Cadmium	mg/L	< 0.005	10/30/06 15:31	A610329	EPA 200.7
Copper	mg/L	0.005	10/30/06 15:30	A610329	EPA 200.7
Lead	mg/L	< 0.015	10/30/06 15:31	A610329	EPA 200.7
Selenium	mg/L	< 0.050	10/30/06 15:29	A610329	EPA 200.7
Zinc	mg/L	< 0.005	10/30/06 15:30	A610329	EPA 200.7

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Project: El Dorado Chemical Stormwaters



Date Received: 26-Oct-06 11:00

ANALYTICAL RESULTS

Lab Number: 0610254-04
Sample Name: 006C; Outfall 006 Composite
Date/Time Collected: 10/25/06 12:10
Sample Matrix: Water

<u>Anions</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Chloride	mg/L	5.89	10/26/06 13:41	A610307	EPA 300.0
Sulfate as SO4	mg/L	29.6	10/26/06 16:19	A610307	EPA 300.0
Nitrate as N	mg/L	229	10/26/06 16:37	A610307	EPA 300.0
<u>Total Metals 200.7</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Phosphorus	mg/L	0.094	10/31/06 13:19	A610329	EPA 200.7
<u>Wet Chemistry</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Ammonia as N	mg/L	56.2	10/31/06 15:00	A610357	EPA 350.3
BOD	mg/L	7.95	10/27/06 9:30	A611014	EPA 405.1
COD	mg/L	46.9	10/30/06 14:20	A610338	EPA 410.4
TDS	mg/L	990	10/27/06 16:30	A610346	EPA 160.1
TKN	mg/L	74.8	10/31/06 16:45	A611001	EPA 351.3
TSS	mg/L	33	10/27/06 13:10	A610328	EPA 160.2

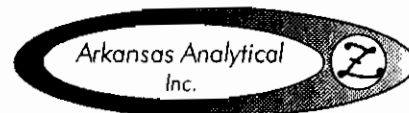
ANALYTICAL RESULTS

Lab Number: 0610254-05
Sample Name: 007C; Outfall 007 Composite
Date/Time Collected: 10/25/06 12:10
Sample Matrix: Water

<u>Anions</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Chloride	mg/L	7.32	10/26/06 13:59	A610307	EPA 300.0
Sulfate as SO4	mg/L	379	10/26/06 17:14	A610307	EPA 300.0
Nitrate as N	mg/L	133	10/26/06 17:14	A610307	EPA 300.0
<u>Total Metals 200.7</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Phosphorus	mg/L	0.049	10/31/06 13:19	A610329	EPA 200.7
<u>Wet Chemistry</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Ammonia as N	mg/L	28.8	10/31/06 15:00	A610357	EPA 350.3
BOD	mg/L	22.3	10/27/06 9:30	A611014	EPA 405.1
COD	mg/L	66.3	10/30/06 14:20	A610338	EPA 410.4
TDS	mg/L	1500	10/27/06 16:30	A610346	EPA 160.1
TKN	mg/L	15.3	10/31/06 16:45	A611001	EPA 351.3
TSS	mg/L	22	10/27/06 13:10	A610328	EPA 160.2

08 November 2006

Kyle Hathcote
GBMC & Associates
219 Brown Lane
Bryant, AR 72022
Project: El Dorado Chemical Stormwaters



Date Received: 26-Oct-06 11:00

ANALYTICAL RESULTS

Lab Number: 0610254-06
Sample Name: 006C; Outfall 006 Metal Comp
Date/Time Collected: 10/25/06 16:10
Sample Matrix: Water

<u>Total Metals 200.7</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Cadmium	mg/L	< 0.005	10/30/06 15:35	A610329	EPA 200.7
Copper	mg/L	0.093	10/30/06 15:34	A610329	EPA 200.7
Lead	mg/L	0.031	10/30/06 15:35	A610329	EPA 200.7
Selenium	mg/L	< 0.050	10/30/06 15:33	A610329	EPA 200.7
Zinc	mg/L	0.483	10/30/06 15:34	A610329	EPA 200.7

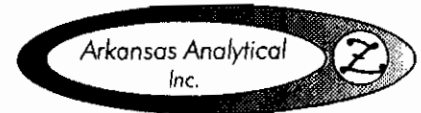
ANALYTICAL RESULTS

Lab Number: 0610254-07
Sample Name: 007C; Outfall 007 Metal Comp
Date/Time Collected: 10/25/06 16:10
Sample Matrix: Water

<u>Total Metals 200.7</u>	<u>Units</u>	<u>Result</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Cadmium	mg/L	< 0.005	10/30/06 15:39	A610329	EPA 200.7
Copper	mg/L	0.026	10/30/06 15:38	A610329	EPA 200.7
Lead	mg/L	< 0.015	10/30/06 15:39	A610329	EPA 200.7
Selenium	mg/L	< 0.050	10/30/06 15:37	A610329	EPA 200.7
Zinc	mg/L	0.166	10/30/06 15:38	A610329	EPA 200.7

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Date Received: 26-Oct-06 11:00

QUALITY CONTROL RESULTS

Anions

Batch: A610307 (Water); Prepared: 26-Oct-06 11:35

	<u>Blank</u>	<u>LCS</u>	<u>MS</u>	<u>MSD/RPD</u>
Chloride	< 0.500 mg/L	91.6 %	94.3 %	95.3 % / 1.04
Nitrate as N	< 0.500 mg/L	98.5 %	90.5 %	91.0 % / 0.319
Sulfate as SO4	< 0.5 mg/L	95.0 %	91.5 %	92.6 % / 1.11

Wet Chemistry

Batch: A610324 (Water); Prepared: 27-Oct-06 10:00

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>	<u>MS</u>
Oil and Grease	< 1.0 mg/L	92.0 %	85.6 % / 7.28	84.1 %

Wet Chemistry

Batch: A610328 (Water); Prepared: 27-Oct-06 13:10

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>	
TSS	< 1.0 mg/L	81.7 %	84.6 % / 3.47	

Total Metals 200.7

Batch: A610329 (Water); Prepared: 30-Oct-06 09:20

	<u>Blank</u>	<u>LCS</u>	<u>MS</u>	<u>MSD/RPD</u>
Cadmium	< 0.001 mg/L	92.0 %	85.5 %	87.0 % / 1.74
Copper	< 0.010 mg/L	87.8 %	95.2 %	100 % / 4.85
Lead	< 0.015 mg/L	91.6 %	84.6 %	84.2 % / 0.474
Phosphorus	< 0.020 mg/L	89.3 %	94.6 %	98.6 % / 2.04
Selenium	< 0.050 mg/L	90.6 %	89.6 %	93.6 % / 4.37
Zinc	< 0.002 mg/L	90.2 %	88.8 %	92.4 % / 3.77

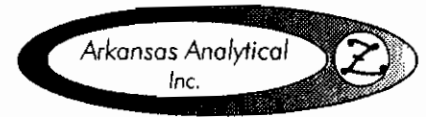
Wet Chemistry

Batch: A610338 (Water); Prepared: 30-Oct-06 10:00

	<u>Blank</u>	<u>LCS</u>	<u>MS</u>	<u>MSD/RPD</u>
COD	< 10.0 mg/L	118 %	117 %	107 % / 8.79

06 November 2006

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GBMC & Associates
219 Brown Lane
Bryant, AR 72022
Project: El Dorado Chemical Stormwaters



Date Received: 26-Oct-06 11:00

QUALITY CONTROL RESULTS

Wet Chemistry

Batch: A610346 (Water); Prepared: 27-Oct-06 16:30

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>
TDS	< 1.0 mg/L	85.1 %	91.6 % / 7.28

Wet Chemistry

Batch: A610351 (Water); Prepared: 26-Oct-06 12:20

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>
BOD	< 2.00 mg/L	85.9 %	88.4 % / 2.90

Wet Chemistry

Batch: A610357 (Water); Prepared: 31-Oct-06 09:00

	<u>Blank</u>	<u>LCS</u>	<u>MS</u>	<u>MSD/RPD</u>
Ammonia as N	< 0.50 mg/L	107 %	112 %	111 % / 0.391

Wet Chemistry

Batch: A611001 (Water); Prepared: 31-Oct-06 09:30

	<u>Blank</u>	<u>LCS</u>	<u>MS</u>	<u>MSD/RPD</u>
TKN	< 0.500 mg/L	101 %	75.0 %	76.5 % / 2.03

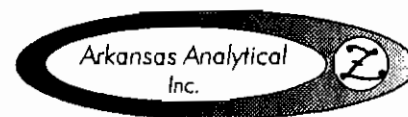
Wet Chemistry

Batch: A611014 (Water); Prepared: 27-Oct-06 09:30

	<u>Blank</u>	<u>LCS</u>	<u>LCSD/RPD</u>
BOD	< 2.00 mg/L	88.9 %	88.9 % / 1.13

06 November 2006

Kyle Hathcote
GBMC & Associates
219 Brown Lane
Bryant, AR 72022
Project: El Dorado Chemical Stormwaters



Date Received: 26-Oct-06 11:00

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, appearing to read "Bruce Yancey", is written over a horizontal line.

Reviewed by:

Bruce Yancey
Lab Manager

Chain of Custody

GENERAL INFORMATION			BILLING INFORMATION			SPECIFICATIONS			
Company:	GBMC & Associates	Bill To:	Wes Morgan			* 006C metal composites: 10%, 23%, 32%, 35%			
Project Name/No.:	2042-99-010	Company:	El Dorado Chemical Co.			* 007C metal composites: 4%, 26%, 34%, 36%			
Send Report To:	Kyle Hathcote	Address:	4500 North West Avenue			Report to appropriate MQLs. Call w/ questions.			
Address:	219 Brown Lane	Phone No.:	El Dorado, AR 71731			Parameters for Analysis/Methods			
	Bryant, AR 72022	Fax No.:	(870) 863-1484						
Phone/Fax No.:	847-7077 / 847-7943	Matrix S=Sed/Soil W=Water	Number of Containers	Composite or Grab	Oil and Grease	Cl, NO3, SO4	NH3, COD, P, TKN	BOD, TDS, TSS	Ca, Cu, Se, Zn, Pb
Sample ID	Sample Description	Date	Time						
006G	Outfall 006	10/25/06	1010	W	5	G	X	X	X
007G	Outfall 007	10/25/06	1040	W	5	G	X	X	X
FBlank	Field Blank	10/25/06	1040	W	1	G			X
006C	Outfall 006 Composite	10/25/06	1210	W	3	C	X	X	
007C	Outfall 007 Composite	10/25/06	1240	W	3	C	X	X	
* 006 C	Outfall 006 metal Comp	10/25/06	1610	W	4	C			X
* 007 C	Outfall 007 metal Comp	10/25/06	1640	W	4	C			X
Preservative	(Sulfuric acid =S, Nitric acid =N, NaOH =B, Ice =I)						I	I	I
Sampler(s):	JBB/JJF	Shipment Method:				Turnaround Time Required: Normal			
COC Completed by:	<i>JBB</i>	Date:	10/26/06	Time:	1055	COC Checked by:	<i>[Signature]</i>	Date:	10/26/06
Relinquished by:		Date:		Time:		Received by:	<i>Jamaica</i>	Date:	
Relinquished by:		Date:		Time:		Received in lab by:	<i>Jamaica</i>	Date:	10-26-06
LABORATORY USE ONLY:			Samples Received On Ice?: <input type="checkbox"/> YES or <input type="checkbox"/> NO			Sample Temperature: _____			