

GW - 115

REPORTS

YEAR(S):

1999

*Acid
Tank*

**UNDERGROUND STORAGE TANK
REMOVAL REPORT**

**HALLIBURTON ENERGY SERVICES
2311 SOUTH FIRST
ARTESIA, EDDY COUNTY, NEW MEXICO**

DELTA PROJECT NO. F098-130

Prepared for:

**Jim McGinty
Halliburton Shared Services
4100 Clinton Drive
Building 3, 1107H
Houston, Texas 77020**

February 26, 1999

Prepared By:

**Delta Environmental Consultants, Inc.
2340 Trinity Mills Road, Suite 230
Carrollton, TX 75006-1939
(972) 418-6202**

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UNDERGROUND STORAGE TANK REMOVAL REPORT

**HALLIBURTON ENERGY SERVICES
2311 SOUTH FIRST
ARTESIA, EDDY COUNTY, NEW MEXICO**

DELTA PROJECT NO. F098-130

1.0 INTRODUCTION

Two 5,000-gallon fiberglass acid neutralization tanks were excavated and removed from Halliburton Energy Services in Artesia, New Mexico.

The scope of work for this project is detailed below.

- Δ Water and sludge material were removed from two 5,000 gallon fiberglass tanks;
- Δ Two fiberglass tanks were excavated and removed;
- Δ Excavation walls were sampled and analyzed for Total Petroleum Hydrocarbons (TPH by EPA Method 418.1)
- Δ Stockpiled soil and sludge were sampled and analyzed for TCLP Volatile Organic Compounds (VOC's), TCLP Semi-volatile Organic Compounds (SVOC's), and TCLP Metals (EPA Methods 1311/8260, 1311/8270, and 1311/6000/7000, respectively).
- Δ An Underground Storage Tank Removal Report was prepared documenting site activities.

2.0 BACKGROUND INFORMATION

The site is located at 2311 South First Street, Artesia, Eddy County, New Mexico. The facility is an active oil field service yard and provides support for oil field cementing stimulation and vehicle repair activities. The tanks were used for acid neutralization and batch water storage for the acid terminal.

3.0 TANK REMOVAL ACTIVITIES

3.1 Regulatory Notification

Because the system being removed did not discharge into local systems, no regulatory notifications were necessary. Mr. Jack Ford of the New Mexico Oil Conservation Division was informed of the project and scope of work during the removal operation.

3.2 Tank Removal

The liquids were removed from the two tanks by Controlled Recovery, Inc. of Hobbs, New Mexico. The tanks were flushed with fresh water and evacuated a second time. All liquid wastes were stored on-site in a specially coated frac tank until analytical results were received. A copy of the Oil Conservation Division (OCD) Disposal Approval form and the liquid waste manifest are included in Appendix A. Due to the presence of sludge materials on the bottom of the two tanks, further cleaning prior to removing the tanks was not possible.

All excavation and removal activities were performed by Rhino Environmental Services of Hobbs, New Mexico. Halliburton and Delta personnel were onsite to observe and supervise site activities.

The southern tank was excavated first to allow access by the backhoe. Overlying sediments were removed until the tank was accessible. The top of the tank was then removed to allow access to the sludge materials within. Soil was added to the sludge material to facilitate stabilization and removal. After sludge removal, the tank was pulled for disposal. The entire procedure was repeated for the northern tank. The soil/sludge material was sampled and stockpiled on and covered with plastic sheeting. Ground water was encountered at approximately fifteen feet below ground surface during excavation of the southern tank. Photographs of the site activities are included in Appendix B.

Following OCD approval, Rhino transported 96 cubic yards of material to the Rhino Environmental Services OCD Land Farm located on Highway 18 in Lee County. The OCD approval form and waste manifests are included in Appendix A.

3.3 Soil and Ground Water Sample Collection

The sampled soil was predominantly gravel. No hydrocarbon odors were noted during sample collection. The excavation side walls were sampled to assess possible soil impact. The sample locations are shown on Figure 1. The soil samples were collected with the bucket of the backhoe.

Each sample was taken from approximately 10-13 feet below ground surface. One sample was collected from the ground water that entered the excavation.

All of the excavation samples were analyzed for petroleum oil hydrocarbons (POH) by EPA Method 418.1. The sample from each half of the tank excavation with the highest POH result was also analyzed for volatile organic compounds (VOCs) by EPA Method 8260 and semi-volatile organic compounds (SVOCs) by EPA Method 8270. The ground water sample (pit water) was submitted for analyses of VOCs, SVOCs, and RCRA metals.

POH concentrations ranged from <5.0 mg/kg to 2600 mg/kg. VOCs ranged from <0.500 mg/kg to 414.4 mg/kg. SVOCs ranged from <0.0400 mg/kg to 51.94 mg/kg. Pit water results indicated TPH-DRO concentrations of 8.2 mg/l, VOCs of 10.31 mg/l, and no measurable concentrations of RCRA metals.

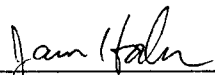
4.0 CONCLUSIONS

- Δ Two 5,000-gallon fiberglass UST's were emptied and removed.
- Δ Analytical results indicate that soil and ground water have been impacted by operation of the neutralization tanks.

5.0 SIGNATURES

This report was prepared by:

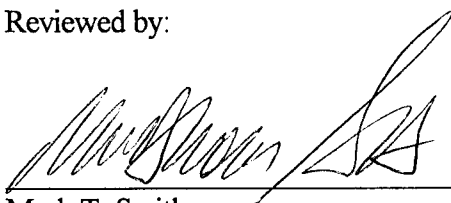
DELTA ENVIRONMENTAL CONSULTANTS, INC. (RCAS #00222)



Destini Baldonado
Staff Geologist

Date 5/12/99

Reviewed by:



Mark T. Smith
Senior Geologist

Date 05-12-99

DJB/bgw

TABLES

TABLE 1
SUMMARY OF SOIL AND WATER SAMPLE ANALYTICAL RESULTS
HALLIBURTON ENERGY SERVICES
ARTESIA, NEW MEXICO
DELTA PROJECT NO. F098-130

All measurements in ppm (mg/kg or mg/l)

<u>Boring</u>	<u>Date</u>	<u>TPH- DRO</u>	<u>VOCs 8260</u>	<u>SVOCs 8270C</u>	<u>POH 418.1</u>	<u>pH</u>	<u>RCRA Metals</u>					<u>Selenium</u>	<u>Silver</u>	<u>Mercury</u>
							<u>Arsenic</u>	<u>Barium</u>	<u>Cadmium</u>	<u>Chromium</u>	<u>Lead</u>			
So. Tank - SW	9/24/98	NA	NA	NA	55	NA	NA	NA	NA	NA	NA	NA	NA	NA
So. Tank - EW	9/24/98	NA	NA	NA	510	NA	NA	NA	NA	NA	NA	NA	NA	NA
So. Tank - NW	9/24/98	NA	NA	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
So. Tank - WW	9/24/98	NA	12.89	1.30	1400	NA	NA	NA	NA	NA	NA	NA	NA	NA
No. Tank - SW	9/24/98	NA	NA	NA	95	NA	NA	NA	NA	NA	NA	NA	NA	NA
No. Tank - EW	9/24/98	NA	NA	NA	1800	NA	NA	NA	NA	NA	NA	NA	NA	NA
No. Tank - NW	9/24/98	NA	414.4	51.94	2600	NA	NA	NA	NA	NA	NA	NA	NA	NA
No. Tank - WW	9/24/98	NA	NA	NA	190	NA	NA	NA	NA	NA	NA	NA	NA	NA
Stockpile*	9/24/98	NA	<0.500	<0.0400	NA	6.12	<0.200	0.45	<0.0300	<0.0300	<0.100	<0.200	<0.0300	<0.000200
Tank Water	9/24/98	NA	NA	NA	110	NA	<0.200	0.17	0.15	0.031	0.13	<0.20	<0.030	<0.00200
Pit Water	9/24/98	8.2	10.31	NA	NA	NA	<0.0050	<0.10	<0.010	<0.03	<0.0050	<0.050	<0.030	<0.00200

NA - Not Analyzed

VOCs and SVOCs = Volatile organic compounds and semi-volatile organic compounds

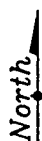
VOCs and SVOCs reported as one number for all compounds above detection limits, please refer to laboratory report for constituent specific detection limits and results.

POH = Petroleum Oil Hydrocarbons

* TCLP Analysis

FIGURES

SOUTH FIRST STREET



NOT TO SCALE

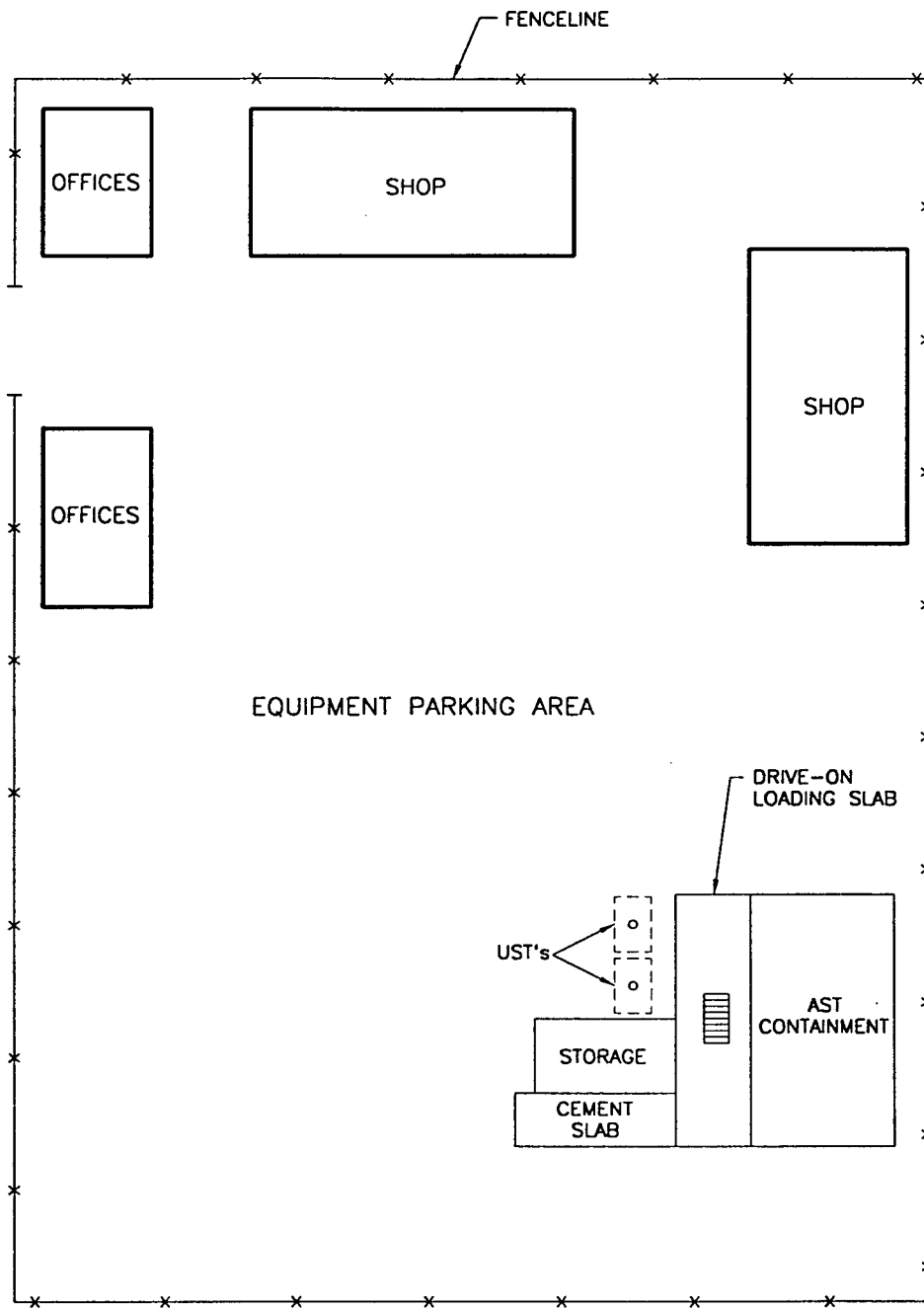
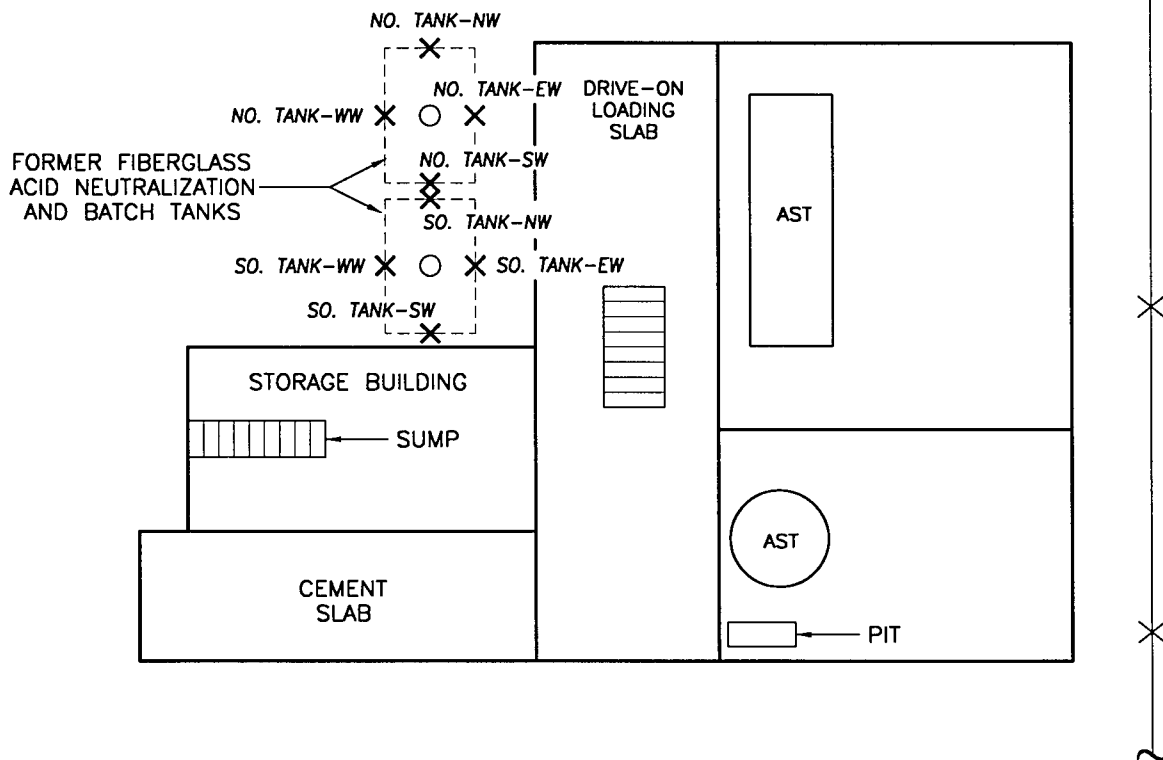


FIGURE 1
SITE MAP
HALLIBURTON ENERGY SERVICES
ARTESIA, NEW MEXICO

PROJECT NO. F098-130	PREPARED BY DB	DRAWN BY DD
DATE 1/25/99	REVIEWED BY	FILE NAME 98130SM



Delta
 Environmental
 Consultants, Inc.



LEGEND

X = SAMPLE LOCATIONS



NOT TO SCALE

FIGURE 2
PARTIAL SITE MAP WITH SAMPLING LOCATIONS
HALLIBURTON ENERGY SERVICES
ARTESIA, NEW MEXICO

PROJECT NO. F098-130	PREPARED BY DB	DRAWN BY DD
DATE 2/26/99	REVIEWED BY	FILE NAME 98130PSM



APPENDIX A
WASTE MANIFESTS

District II - (505) 748-1283
111 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Artesia, NM 87410
District IV - (505) 827-7131

Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED

DEC 03 1998

Submit
Plus
to app
District

Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Haliburton Energy
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Artesia Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388 Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2311 South 1st Street	Artesia, New Mexico
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the Haliburton Artesia facility's wash water. The material was generated by make up water from former acid terminal. I have included a certificate of waste and a chain of custody.

11-007

Estimated Volume 4000 gallons cy Known Volume (to be entered by the operator at the end of the haul) _____ c

SIGNATURE: Billie Charo
Waste Management Facility Authorized Agent

TITLE: Envir. Compliance Manager DATE: 11/30/98

TYPE OR PRINT NAME: Billie Charo

TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Walter J. Kelly TITLE: Env Geologyist DATE: 12/2/98

1098-130

0083

NON-HAZARDOUS WASTE MANIFEST

PART I: Generator Halliburton Energy Services
Address 2311 S. 1st St.
City/State Artesia, NM

()
Telephone No.

ORIGIN OF WASTE:

Operations Center Artesia, New Mexico

Permit No. _____

Property Name Artesia Facility
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)

Drilling Fluids _____	Tank Bottoms _____	Exempt Fluids _____
Completion Fluids _____	Gas Plant Waste _____	C117 No. _____
Contaminated Soil _____	Other Material <u>X</u>	Pit No. _____

DESCRIPTION / NOTES

95 bbls. of batch water from acid terminal

CERTIFICATION:

The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify the foregoing is true and correct to the best of my knowledge.

[Signature]
Signature of Generator's Authorized Agent

11-4-98

Date and time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name Controlled Recovery, Inc.
Address P. O. Box 388
City/State Hobbs, NM 88241

(505) 393-1079

Telephone No.

V-2

Truck No.

CERTIFICATION:

I certify that the waste in quantity above was received by me for shipment to the destination below.

[Signature]
Signature of Transporter's Agent

12-4-98 7:30PM

Date and time of Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name Controlled Recovery, Inc.
Address P.O. Box ~~388~~ 388
City/State Hobbs, NM 88241

(505)393-1079

Telephone No.

CERTIFICATION:

I certify that the waste described in Part I was received by me via the transporter described in Part II.

[Signature]
Signature of Facility Agent

12-4-98 7:30PM

Date and time of Received

Post-it® Fax Note 7671

To	Destiny Baldinato
Co./Dept.	Delta Env.
Phone #	(972) 418-5311
Fax #	-5243

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED

JAN 23 1999

Environmental Bureau
Oil Conservation DivisionSubmit Original
Plus 1 Copy
to appropriate
District Office**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <u>Halliburton Energy Services</u>
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site <u>2311 S. 1st St. Artesia, NM</u>
2. Management Facility Destination <u>Rhino Commercial Landfarm</u>	6. Transporter <u>Rhino</u>
3. Address of Facility Operator <u>5 CR 606S, Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>2311 S. 1st St., Artesia, NM</u>
9. <u>Circle One:</u>	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.	
B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Sludge & Soil from the waste neutralization tank associated with
The acid terminal.

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: [Signature] TITLE: Landfarm Manager DATE: 1-22-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Daniele Berardelli TELEPHONE NO. (505) 598-9626
Fax: -9627

(This space for State Use)

APPROVED BY: [Signature] TITLE: Environmental Engineer DATE: 2-5-99APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 1-28-99

Please print or type
(Form designed for use on 8 1/2 x 11 inch typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No. 001	2. Page 1 of
3. Generator's Name and Mailing Address HALLIBURTON PO BOX 539				
4. Generator's Phone (505) 746-88210-2258				
5. Transporter 1 Company Name RHINO ENV. SERV. INC	6. US EPA ID Number			
7. Transporter 2 Company Name	8. US EPA ID Number			
9. Designated Facility Name and Site Address RHINO ENV SERV. INC 8 MILES SOUTH OF HALLIBURTON HWY 18 OLD FARM	10. US EPA ID Number	A. Transporter's Phone 505-392-4498 B. Transporter's Phone C. Facility's Phone 1-800-499-8393		
11. Waste Shipping Name and Description		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS HYDROCARBON IMPACTED SOIL		BLK	24 yds	
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information NONE				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Steve DeMeyrith		Signature Steve DeMeyrith		Month Day Year 2 22 99
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Billy Hull		Signature Billy Hull		Month Day Year 2 22 99
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name ROYCE COOPER		Signature Royce Cooper		Month Day Year 2 22 99

GENERATOR

TRANSPORTER

FACILITY

Please print or type. This form is to be filled out by the generator of the waste.
(Form designed for use on a 12-inch typewriter.)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No. 002	2. Page 1 of
3. Generator's Name and Mailing Address HALLIBURTON PO BOX 539 ARTESIA NM 88210				
4. Generator's Phone () 505-746-2582				
5. Transporter 1 Company Name RHINO ENV. SERV. INC.		6. US EPA ID Number		
7. Transporter 2 Company Name		8. US EPA ID Number		
9. Designated Facility Name and Site Address Rhino OCD Farm 8700 S. Hwy 18 Hobbs NM		10. US EPA ID Number		A. Transporter's Phone 505 392 4498 B. Transporter's Phone C. Facility's Phone 1800-499-8393
11. Waste Shipping Name and Description		12. Containers	13. Total Quantity	14. Unit Wt/Vol
a. Non Hazardous Hydrocarbon Impacted Soils		No. BLK	Type 24 yds	
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information NONE				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Steve Demeritt		Signature Steve D. Demeritt		Month 2 Day 22 Year 99
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Billy Hull		Signature Billy Hull		Month 2 Day 22 Year 99
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name ROYCE COOPER		Signature Royce Cooper		Month 2 Day 22 Year 99

GENERATOR

TRANSPORTER

FACILITY

Please print or type. (Form designed for use on 11x17 (12-inch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest
Document No.
0032. Page 1
of

3. Generator's Name and Mailing Address

HALLABITION
PO BOX 539
ARTISTA NM 86210

4. Generator's Phone (

505-2746-2758

5. Transporter 1 Company Name

RHINO ENV. SERV. INC

6.

US EPA ID Number

7. Transporter 2 Company Name

8.

US EPA ID Number

9. Designated Facility Name and Site Address

RHINO ENV. SERV. INC
8 MILES SOUTH OF HOBBS HWY 18
OLD FARM

10.

US EPA ID Number

A. Transporter's Phone

505-392-4498

B. Transporter's Phone

C. Facility's Phone

1-800-499-8393

11. Waste Shipping Name and Description

a. NON-HAZARDOUS

HYDROCARBON IMPACTED SOIL

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

NONE

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Steve Demeritt

Signature

Steve Demeritt

Month Day Year

2 22 99

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Billy Hall

Signature

Billy Hall

Month Day Year

2 22 99

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

ROYCE COOPER

Signature

Royce Cooper

Month Day Year

2 22 99

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No. D.O.F.	2. Page 1 of
3. Generator's Name and Mailing Address HALL, BURTON PO BOX 539 ARTIST AVE 88210				
4. Generator's Phone () 505-746-2758				
5. Transporter 1 Company Name RHINO ENVIRONMENTAL SERV. INC.		6. US EPA ID Number		
7. Transporter 2 Company Name		8. US EPA ID Number		
9. Designated Facility Name and Site Address Rhino Env Serv Inc 8 mile South on Hwy 18 Hobbs NM OLD FARM		10. US EPA ID Number	A. Transporter's Phone 505 392 4498	
			B. Transporter's Phone	
			C. Facility's Phone 1800 499 8393	
11. Waste Shipping Name and Description		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. Non Hazardous Hydrocarbon Impacted Soils		BLK	24 yds	
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information NONE				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name Steve Demeritt		Signature Steve Demeritt		Month Day Year 12 22 99
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Billy Hall		Signature Billy Hall		Month Day Year 12 23 99
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name ROYCE COOPER		Signature Royce Cooper		Month Day Year 12 23 99

GENERATOR

TRANSPORTER

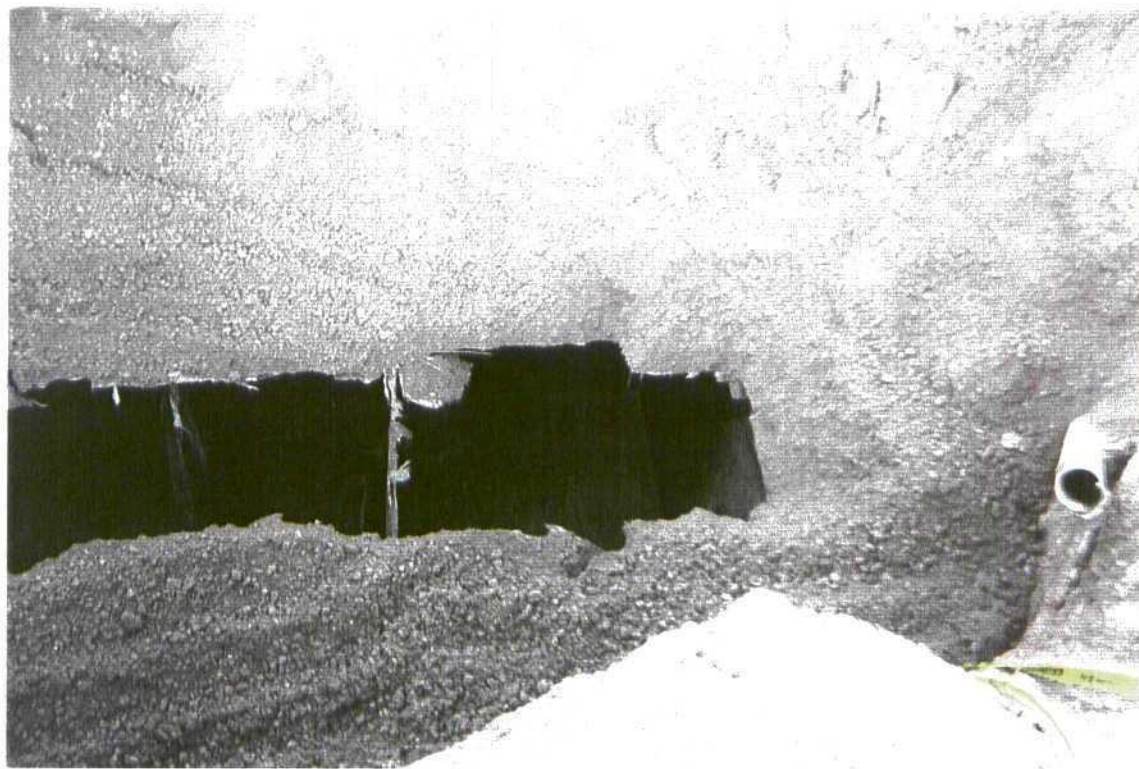
FACILITY

APPENDIX B
SITE PHOTOGRAPHS



PHOTOGRAPH 1

DESCRIPTION: Neutralization tank area, north tank manhole in foreground.



PHOTOGRAPH 2

DESCRIPTION: Removal of top of south tank.



PHOTOGRAPH 3

DESCRIPTION: Interior of south tank.



PHOTOGRAPH 4

DESCRIPTION: Removal of north tank.

APPENDIX C
LABORATORY REPORTS

F098-130

STAR ANALYTICAL

14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

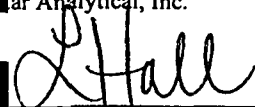
Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
So. Tank - SW	8090291-01	Soil	9/24/98
So. Tank - EW	8090291-02	Soil	9/24/98
So. Tank - NW	8090291-03	Soil	9/24/98
So. Tank - WW	8090291-04	Soil	9/24/98
So. Tank - SW	8090291-05	Soil	9/24/98
No. Tank - EW	8090291-06	Soil	9/24/98
No. Tank - NW	8090291-07	Soil	9/24/98
No. Tank - WW	8090291-08	Soil	9/24/98
Stockpile	8090291-10	Soil	9/24/98
Pump	8090291-11	Soil	9/23/98
Cont.-Pit	8090291-12	Soil	9/23/98
Cont.- 1	8090291-13	Soil	9/23/98
Cont.- 2	8090291-14	Soil	9/23/98
Cont.- 3	8090291-15	Soil	9/23/98
Cont.- 4	8090291-16	Soil	9/23/98
Cont.- 5	8090291-17	Soil	9/23/98
Pit Water	8090291-18	Water	9/24/98
Pit Water	8090291-19	Water	9/24/98

Star Analytical, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document.
This analytical report must be reproduced in its entirety.*


Lari Hall, Project Manager

STAR ANALYTICAL

14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Ft. Worth, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

Diesel Hydrocarbons (C12-C24) by EPA Method 8015 (modified) Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
ump				8090291-11			Soil	
Diesel Range Hydrocarbons	09V8445	9/28/98	9/30/98		500	16000	mg/kg	1,D
Surrogate: o-Terphenyl	"	"	"	49-170		NR	%	2,D
Cont.-Pit				8090291-12			Soil	
Diesel Range Hydrocarbons	09V8445	9/28/98	9/30/98		10	55	mg/kg	3,D
Surrogate: o-Terphenyl	"	"	"	49-170		110	%	
Cont.-1				8090291-13			Soil	
Diesel Range Hydrocarbons	09V8445	9/28/98	9/30/98		10	56	mg/kg	4,D
Surrogate: o-Terphenyl	"	"	"	49-170		NR	%	2,D
Cont.-2				8090291-14			Soil	
Diesel Range Hydrocarbons	09V8445	9/28/98	9/30/98		1.0	7.5	mg/kg	
Surrogate: o-Terphenyl	"	"	"	49-170		88	%	
Cont.-3				8090291-15			Soil	
Diesel Range Hydrocarbons	09V8445	9/28/98	9/30/98		1.0	17	mg/kg	
Surrogate: o-Terphenyl	"	"	"	49-170		130	%	
Cont.-4				8090291-16			Soil	5
Diesel Range Hydrocarbons	09V8445	9/28/98	9/30/98		1.0	5.4	mg/kg	
Surrogate: o-Terphenyl	"	"	"	49-170		82	%	
Cont.-5				8090291-17			Soil	
Diesel Range Hydrocarbons	09V8445	9/28/98	9/30/98		1.0	ND	mg/kg	
Surrogate: o-Terphenyl	"	"	"	49-170		88	%	
t Water				8090291-19			Water	
Diesel Range Hydrocarbons	09V8439	9/28/98	9/28/98		2.0	8.2	mg/l	6,D
Surrogate: o-Terphenyl	"	"	"	49-170		74	%	

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*Refer to end of report for text of notes and definitions.

L Hall

Lari Hall, Project Manager



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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

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Volatile Organic Compounds by EPA Method 8260 Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>So. Tank - WW</u>			<u>8090291-04</u>			<u>Soil</u>		
Acetone	10V8023	10/1/98	10/1/98		250	ND	ug/kg	D
Benzene	"	"	"		20	ND	"	D
Bromobenzene	"	"	"		20	ND	"	D
Bromochloromethane	"	"	"		20	ND	"	D
Bromodichloromethane	"	"	"		20	ND	"	D
Bromoform	"	"	"		20	ND	"	D
Bromomethane	"	"	"		20	ND	"	D
2-Butanone	"	"	"		100	ND	"	D
n-Butylbenzene	"	"	"		20	ND	"	D
sec-Butylbenzene	"	"	"		20	ND	"	D
tert-Butylbenzene	"	"	"		20	ND	"	D
Carbon disulfide	"	"	"		20	ND	"	D
Carbon tetrachloride	"	"	"		20	ND	"	D
Chlorobenzene	"	"	"		20	ND	"	D
Chloroethane	"	"	"		20	ND	"	D
Chloroform	"	"	"		20	ND	"	D
Chloromethane	"	"	"		20	ND	"	D
o-Chlorotoluene	"	"	"		20	ND	"	D
4-Chlorotoluene	"	"	"		20	ND	"	D
Dibromochloromethane	"	"	"		20	ND	"	D
1,2-Dibromo-3-chloropropane	"	"	"		20	ND	"	D
1,2-Dibromoethane	"	"	"		20	ND	"	D
Dibromomethane	"	"	"		20	ND	"	D
1,2-Dichlorobenzene	"	"	"		20	ND	"	D
1,3-Dichlorobenzene	"	"	"		20	ND	"	D
1,4-Dichlorobenzene	"	"	"		20	ND	"	D
Dichlorodifluoromethane	"	"	"		20	ND	"	D
1,1-Dichloroethane	"	"	"		20	ND	"	D
1,2-Dichloroethane	"	"	"		20	ND	"	D
1,1-Dichloroethene	"	"	"		20	ND	"	D
trans-1,2-Dichloroethene	"	"	"		20	ND	"	D
cis-1,2-Dichloroethene	"	"	"		20	ND	"	D
1,2-Dichloropropane	"	"	"		20	ND	"	D
1,3-Dichloropropane	"	"	"		20	ND	"	D
2-Dichloropropane	"	"	"		20	ND	"	D
1-Dichloropropene	"	"	"		20	ND	"	D
cis-1,3-Dichloropropene	"	"	"		20	ND	"	D
trans-1,3-Dichloropropene	"	"	"		20	ND	"	D
Styrene	"	"	"		20	310	"	D
Hexachlorobutadiene	"	"	"		20	ND	"	D
2-Hexanone	"	"	"		100	ND	"	D

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L. Hall

Lari Hall, Project Manager



STAR ANALYTICAL
14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

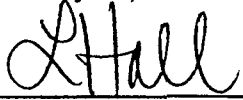
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Volatile Organic Compounds by EPA Method 8260
Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
So. Tank - WW (continued)			8090291-04				Soil	
Isopropylbenzene	10V8023	10/1/98	10/1/98		20	130	ug/kg	D
n-Isopropyltoluene	"	"	"		20	ND	"	D
Methylene chloride	"	"	"		500	ND	"	D
Methyl tert-butyl ether	"	"	"		20	ND	"	D
4-Methyl-2-pentanone	"	"	"		100	ND	"	D
Naphthalene	"	"	"		200	4900	"	D
n-Propylbenzene	"	"	"		20	510	"	D
Styrene	"	"	"		20	ND	"	D
1,1,1,2-Tetrachloroethane	"	"	"		20	ND	"	D
1,1,2,2-Tetrachloroethane	"	"	"		20	ND	"	D
Tetrachloroethene	"	"	"		20	ND	"	D
Toluene	"	"	"		20	1200	"	D
1,2,3-Trichlorobenzene	"	"	"		20	ND	"	D
1,2,4-Trichlorobenzene	"	"	"		20	ND	"	D
1,1,1-Trichloroethane	"	"	"		20	ND	"	D
1,1,2-Trichloroethane	"	"	"		20	ND	"	D
Trichloroethene	"	"	"		20	ND	"	D
Trichlorofluoromethane	"	"	"		20	ND	"	D
1,2,3-Trichloropropane	"	"	"		20	ND	"	D
1,2,4-Trimethylbenzene	"	"	"		20	1900	"	D
1,3,5-Trimethylbenzene	"	"	"		20	2000	"	D
Vinyl acetate	"	"	"		20	ND	"	D
Vinyl chloride	"	"	"		20	ND	"	D
m,p-Xylene	"	"	"		20	1200	"	D
o-Xylene	"	"	"		20	740	"	D
Surrogate: DBFM	"	"	"	80-120		96	%	D
Surrogate: Toluene-d8	"	"	"	81-120		100	"	D
Surrogate: 4-BFB	"	"	"	74-120		94	"	D

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Lari Hall, Project Manager

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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

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Volatile Organic Compounds by EPA Method 8260 Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>So. Tank - NW</u>				<u>8090291-07</u>		<u>Soil</u>		
Acetone	10V8023	10/1/98	10/1/98		25000	ND	ug/kg	D
Benzene	"	"	"		2000	ND	"	D
Bromobenzene	"	"	"		2000	ND	"	D
Bromochloromethane	"	"	"		2000	ND	"	D
Bromodichloromethane	"	"	"		2000	ND	"	D
Bromoform	"	"	"		2000	ND	"	D
Bromomethane	"	"	"		2000	ND	"	D
2-Butanone	"	"	"		10000	ND	"	D
n-Butylbenzene	"	"	"		2000	ND	"	D
sec-Butylbenzene	"	"	"		2000	ND	"	D
tert-Butylbenzene	"	"	"		2000	ND	"	D
Carbon disulfide	"	"	"		2000	ND	"	D
Carbon tetrachloride	"	"	"		2000	ND	"	D
Chlorobenzene	"	"	"		2000	ND	"	D
Chloroethane	"	"	"		2000	ND	"	D
Chloroform	"	"	"		2000	ND	"	D
Chloromethane	"	"	"		2000	ND	"	D
o-Chlorotoluene	"	"	"		2000	ND	"	D
4-Chlorotoluene	"	"	"		2000	ND	"	D
Dibromochloromethane	"	"	"		2000	ND	"	D
1,2-Dibromo-3-chloropropane	"	"	"		2000	ND	"	D
1,2-Dibromoethane	"	"	"		2000	ND	"	D
Dibromomethane	"	"	"		2000	ND	"	D
1,2-Dichlorobenzene	"	"	"		2000	ND	"	D
1,3-Dichlorobenzene	"	"	"		2000	ND	"	D
1,4-Dichlorobenzene	"	"	"		2000	ND	"	D
Dichlorodifluoromethane	"	"	"		2000	ND	"	D
1,1-Dichloroethane	"	"	"		2000	ND	"	D
1,2-Dichloroethane	"	"	"		2000	ND	"	D
1,1-Dichloroethene	"	"	"		2000	ND	"	D
cis-1,2-Dichloroethene	"	"	"		2000	ND	"	D
trans-1,2-Dichloroethene	"	"	"		2000	ND	"	D
1,2-Dichloropropane	"	"	"		2000	ND	"	D
1,3-Dichloropropane	"	"	"		2000	ND	"	D
2-Dichloropropane	"	"	"		2000	ND	"	D
1-Dichloropropene	"	"	"		2000	ND	"	D
cis-1,3-Dichloropropene	"	"	"		2000	ND	"	D
trans-1,3-Dichloropropene	"	"	"		2000	ND	"	D
Stylybenzene	"	"	"		2000	8100	"	D
Hexachlorobutadiene	"	"	"		2000	ND	"	D
2-Hexanone	"	"	"		10000	ND	"	D

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Lari Hall, Project Manager



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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Marrollton, TX 75006

Project: Artesia
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Project Manager: Destini Baldonado

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Volatile Organic Compounds by EPA Method 8260 Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
So. Tank - NW (continued)			8090291-07				Soil	
Isopropylbenzene	10V8023	10/1/98	10/1/98		2000	6300	ug/kg	D
n-Isopropyltoluene	"	"	"		2000	ND	"	D
Methylene chloride	"	"	"		50000	ND	"	D
Methyl tert-butyl ether	"	"	"		2000	ND	"	D
4-Methyl-2-pentanone	"	"	"		10000	ND	"	D
naphthalene	"	"	"		2000	62000	"	D
n-Propylbenzene	"	"	"		2000	29000	"	D
Styrene	"	"	"		2000	ND	"	D
1,1,1,2-Tetrachloroethane	"	"	"		2000	ND	"	D
1,1,2,2-Tetrachloroethane	"	"	"		2000	ND	"	D
Tetrachloroethene	"	"	"		2000	ND	"	D
Toluene	"	"	"		2000	13000	"	D
1,2,3-Trichlorobenzene	"	"	"		2000	ND	"	D
1,2,4-Trichlorobenzene	"	"	"		2000	ND	"	D
1,1,1-Trichloroethane	"	"	"		2000	ND	"	D
1,1,2-Trichloroethane	"	"	"		2000	ND	"	D
Trichloroethene	"	"	"		2000	ND	"	D
Trichlorofluoromethane	"	"	"		2000	ND	"	D
1,2,3-Trichloropropane	"	"	"		2000	ND	"	D
1,2,4-Trimethylbenzene	"	"	"		2000	130000	"	D
1,3,5-Trimethylbenzene	"	"	"		2000	120000	"	D
Vinyl acetate	"	"	"		2000	ND	"	D
Vinyl chloride	"	"	"		2000	ND	"	D
m,p-Xylene	"	"	"		2000	24000	"	D
Xylene	"	"	"		2000	22000	"	D
Surrogate: DBFM	"	"	"	80-120		98	%	D
Surrogate: Toluene-d8	"	"	"	81-120		100	"	D
Surrogate: 4-BFB	"	"	"	74-120		98	"	D

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Lari Hall, Project Manager



STAR ANALYTICAL

14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Marrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

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Volatile Organic Compounds by EPA Method 8260 Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sample			8090291-11				Soil	
Acetone	10V8023	10/1/98	10/1/98		13000	ND	ug/kg	D
Benzene	"	"	"		1000	ND	"	D
Bromobenzene	"	"	"		1000	ND	"	D
Bromochloromethane	"	"	"		1000	ND	"	D
Bromodichloromethane	"	"	"		1000	ND	"	D
Bromoform	"	"	"		1000	ND	"	D
Bromomethane	"	"	"		1000	ND	"	D
2-Butanone	"	"	"		5000	ND	"	D
n-Butylbenzene	"	"	"		1000	ND	"	D
sec-Butylbenzene	"	"	"		1000	ND	"	D
tert-Butylbenzene	"	"	"		1000	ND	"	D
Carbon disulfide	"	"	"		1000	ND	"	D
Carbon tetrachloride	"	"	"		1000	ND	"	D
Chlorobenzene	"	"	"		1000	ND	"	D
Chloroethane	"	"	"		1000	ND	"	D
Chloroform	"	"	"		1000	ND	"	D
Chloromethane	"	"	"		1000	ND	"	D
Chlorotoluene	"	"	"		1000	ND	"	D
4-Chlorotoluene	"	"	"		1000	ND	"	D
Dibromochloromethane	"	"	"		1000	ND	"	D
1,2-Dibromo-3-chloropropane	"	"	"		1000	ND	"	D
1,2-Dibromoethane	"	"	"		1000	ND	"	D
Dibromomethane	"	"	"		1000	ND	"	D
1,2-Dichlorobenzene	"	"	"		1000	ND	"	D
1,3-Dichlorobenzene	"	"	"		1000	ND	"	D
1,4-Dichlorobenzene	"	"	"		1000	ND	"	D
Dichlorodifluoromethane	"	"	"		1000	ND	"	D
1,1-Dichloroethane	"	"	"		1000	ND	"	D
1,2-Dichloroethane	"	"	"		1000	ND	"	D
trans-1,2-Dichloroethene	"	"	"		1000	ND	"	D
1,2-Dichloropropane	"	"	"		1000	ND	"	D
1,3-Dichloropropane	"	"	"		1000	ND	"	D
1,2-Dichloropropane	"	"	"		1000	ND	"	D
1,1-Dichloropropene	"	"	"		1000	ND	"	D
cis-1,3-Dichloropropene	"	"	"		1000	ND	"	D
trans-1,3-Dichloropropene	"	"	"		1000	ND	"	D
Phenylbenzene	"	"	"		1000	ND	"	D
Hexachlorobutadiene	"	"	"		1000	ND	"	D
2-Hexanone	"	"	"		5000	ND	"	D

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Lari Hall, Project Manager



STAR ANALYTICAL

14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



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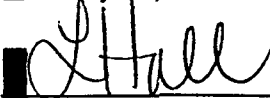
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Volatile Organic Compounds by EPA Method 8260 Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
ump (continued)		8090291-11				Soil		
Isopropylbenzene	10V8023	10/1/98	10/1/98		1000	ND	ug/kg	D
n-Isopropyltoluene	"	"	"		1000	ND	"	D
Methylene chloride	"	"	"		25000	ND	"	D
Methyl tert-butyl ether	"	"	"		1000	ND	"	D
4-Methyl-2-pentanone	"	"	"		5000	ND	"	D
naphthalene	"	"	"		1000	3400	"	D
Propylbenzene	"	"	"		1000	ND	"	D
Styrene	"	"	"		1000	ND	"	D
1,1,1,2-Tetrachloroethane	"	"	"		1000	ND	"	D
1,1,2,2-Tetrachloroethane	"	"	"		1000	ND	"	D
Tetrachloroethene	"	"	"		1000	ND	"	D
Toluene	"	"	"		1000	2500	"	D
1,2,3-Trichlorobenzene	"	"	"		1000	ND	"	D
1,2,4-Trichlorobenzene	"	"	"		1000	ND	"	D
1,1,1-Trichloroethane	"	"	"		1000	ND	"	D
1,1,2-Trichloroethane	"	"	"		1000	ND	"	D
Trichloroethene	"	"	"		1000	ND	"	D
Trichlorofluoromethane	"	"	"		1000	ND	"	D
1,2,3-Trichloropropane	"	"	"		1000	ND	"	D
1,2,4-Trimethylbenzene	"	"	"		1000	1100	"	D
1,3,5-Trimethylbenzene	"	"	"		1000	1100	"	D
Vinyl acetate	"	"	"		1000	ND	"	D
Vinyl chloride	"	"	"		1000	ND	"	D
p-Xylene	"	"	"		1000	ND	"	D
Xylene	"	"	"		1000	ND	"	D
Surrogate: DBFM	"	"	"	80-120		100	%	D
Surrogate: Toluene-d8	"	"	"	81-120		100	"	D
Surrogate: 4-BFB	"	"	"	74-120		96	"	D

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Lari Hall, Project Manager



STAR ANALYTICAL

14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Ft. Worth, TX 75006

Project: Artesia
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Volatile Organic Compounds by EPA Method 8260 Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
Water			8090291-19			Water		
Acetone	09V8447	9/30/98	9/30/98		100	ND	ug/l	D
Benzene	"	"	"		20	ND	"	D
Bromobenzene	"	"	"		20	ND	"	D
Bromochloromethane	"	"	"		20	ND	"	D
Bromodichloromethane	"	"	"		20	ND	"	D
Bromoform	"	"	"		20	ND	"	D
Bromomethane	"	"	"		20	ND	"	D
2-Butanone	"	"	"		100	ND	"	D
n-Butylbenzene	"	"	"		20	ND	"	D
sec-Butylbenzene	"	"	"		20	ND	"	D
tert-Butylbenzene	"	"	"		20	ND	"	D
Carbon disulfide	"	"	"		20	ND	"	D
Carbon tetrachloride	"	"	"		20	ND	"	D
Chlorobenzene	"	"	"		20	ND	"	D
Chloroethane	"	"	"		20	ND	"	D
Chloroform	"	"	"		20	ND	"	D
Chloromethane	"	"	"		20	ND	"	D
Chlorotoluene	"	"	"		20	ND	"	D
4-Chlorotoluene	"	"	"		20	ND	"	D
Dibromochloromethane	"	"	"		20	ND	"	D
1,2-Dibromo-3-chloropropane	"	"	"		20	ND	"	D
1,2-Dibromoethane	"	"	"		20	ND	"	D
Dibromomethane	"	"	"		20	ND	"	D
1,2-Dichlorobenzene	"	"	"		20	ND	"	D
1,3-Dichlorobenzene	"	"	"		20	ND	"	D
1,4-Dichlorobenzene	"	"	"		20	ND	"	D
Dichlorodifluoromethane	"	"	"		20	ND	"	D
1,1-Dichloroethane	"	"	"		20	ND	"	D
1,2-Dichloroethane	"	"	"		20	ND	"	D
trans-1,2-Dichloroethene	"	"	"		20	ND	"	D
1,2-Dichloropropane	"	"	"		20	ND	"	D
1,3-Dichloropropane	"	"	"		20	ND	"	D
2,2-Dichloropropane	"	"	"		20	ND	"	D
1,1-Dichloropropene	"	"	"		20	ND	"	D
cis-1,3-Dichloropropene	"	"	"		20	ND	"	D
trans-1,3-Dichloropropene	"	"	"		20	ND	"	D
Toluene	"	"	"		20	390	"	D
Hexachlorobutadiene	"	"	"		20	ND	"	D
2-Hexanone	"	"	"		100	ND	"	D

Star Analytical, Inc.

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Lari Hall, Project Manager



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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
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Delta Environmental
2340 Trinity Mills, Suite 230
Marrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

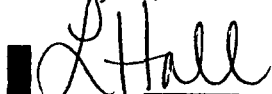
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Volatile Organic Compounds by EPA Method 8260 Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
Water (continued)		8090291-19				Water		
Isopropylbenzene	09V8447	9/30/98	9/30/98		20	110	ug/l	D
Isopropyltoluene	"	"	"		20	ND	"	D
Ethylene chloride	"	"	"		100	ND	"	D
Methyl tert-butyl ether	"	"	"		20	ND	"	D
4-Methyl-2-pentanone	"	"	"		100	ND	"	D
Naphthalene	"	"	"		20	1800	"	D
Propylbenzene	"	"	"		20	440	"	D
Styrene	"	"	"		20	ND	"	D
1,1,1,2-Tetrachloroethane	"	"	"		20	ND	"	D
1,1,2,2-Tetrachloroethane	"	"	"		20	ND	"	D
Tetrachloroethene	"	"	"		20	ND	"	D
Toluene	"	"	"		20	1300	"	D
1,2,3-Trichlorobenzene	"	"	"		20	ND	"	D
1,2,4-Trichlorobenzene	"	"	"		20	ND	"	D
1,1,1-Trichloroethane	"	"	"		20	ND	"	D
1,1,2-Trichloroethane	"	"	"		20	ND	"	D
Dichloroethene	"	"	"		20	ND	"	D
Dichlorofluoromethane	"	"	"		20	ND	"	D
1,2,3-Trichloropropane	"	"	"		20	ND	"	D
1,2,4-Trimethylbenzene	"	"	"		20	2300	"	D
1,3,5-Trimethylbenzene	"	"	"		20	2100	"	D
Vinyl acetate	"	"	"		20	ND	"	D
Vinyl chloride	"	"	"		20	ND	"	D
p-Xylene	"	"	"		20	1000	"	D
m-Xylene	"	"	"		20	870	"	D
Surrogate: DBFM	"	"	"	86-120		100	%	
Surrogate: Toluene-d8	"	"	"	88-110		100	"	
Surrogate: 4-BFB	"	"	"	86-120		94	"	

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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Marrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

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Semivolatile Organic Compounds by EPA Method 8270C Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
Soil Tank - WW			8090291-04				Soil	
Acenaphthene	10V8024	10/1/98	10/1/98		33	ND	ug/kg	
Acenaphthylene	"	"	"		33	ND	"	
Aniline	"	"	"		33	ND	"	
Anthracene	"	"	"		33	ND	"	
Benzoic Acid	"	"	"		170	ND	"	
Benzo (a) anthracene	"	"	"		33	ND	"	
Benzo (b) fluoranthene	"	"	"		33	ND	"	
Benzo (k) fluoranthene	"	"	"		33	ND	"	
Benzo (ghi) perylene	"	"	"		33	ND	"	
Benzo (a) pyrene	"	"	"		33	ND	"	
Benzyl alcohol	"	"	"		33	ND	"	
Bis(2-chloroethoxy)methane	"	"	"		33	ND	"	
Bis(2-chloroethyl)ether	"	"	"		33	ND	"	
Bis(2-chloroisopropyl)ether	"	"	"		33	ND	"	
Bis(2-ethylhexyl)phthalate	"	"	"		170	ND	"	
4-Bromophenyl phenyl ether	"	"	"		33	ND	"	
Butyl benzyl phthalate	"	"	"		33	ND	"	
Carbazole	"	"	"		33	ND	"	
4-Chloroaniline	"	"	"		33	ND	"	
2-Chloronaphthalene	"	"	"		33	ND	"	
2-Chloro-3-methylphenol	"	"	"		33	ND	"	
2-Chlorophenol	"	"	"		33	ND	"	
4-Chlorophenyl phenyl ether	"	"	"		33	ND	"	
Chrysene	"	"	"		33	ND	"	
Benzo (a,h) anthracene	"	"	"		33	ND	"	
Dibenzofuran	"	"	"		33	ND	"	
Di-n-butyl phthalate	"	"	"		170	ND	"	
1,3-Dichlorobenzene	"	"	"		33	ND	"	
1,4-Dichlorobenzene	"	"	"		33	ND	"	
1,2-Dichlorobenzene	"	"	"		33	ND	"	
1,3'-Dichlorobenzidine	"	"	"		170	ND	"	
1,4-Dichlorophenol	"	"	"		33	ND	"	
Diethyl phthalate	"	"	"		33	ND	"	
2,4-Dimethylphenol	"	"	"		33	ND	"	
Dimethyl phthalate	"	"	"		33	ND	"	
2,5-Dinitro-2-methylphenol	"	"	"		170	ND	"	
2,4-Dinitrophenol	"	"	"		170	ND	"	
2,4-Dinitrotoluene	"	"	"		33	ND	"	
2,6-Dinitrotoluene	"	"	"		33	ND	"	
Di-n-octyl phthalate	"	"	"		33	ND	"	
Fluoranthene	"	"	"		33	ND	"	

Star Analytical, Inc.

*Refer to end of report for text of notes and definitions.

L Hall

Lari Hall, Project Manager



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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
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Project Manager: Destini Baldonado

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Semivolatile Organic Compounds by EPA Method 8270C Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
So. Tank - WW (continued)				8090291-04			Soil	
Fluorene	10V8024	10/1/98	10/1/98		33	ND	ug/kg	
Hexachlorobenzene	"	"	"		33	ND	"	
Hexachlorobutadiene	"	"	"		33	ND	"	
Hexachlorocyclopentadiene	"	"	"		33	ND	"	
Hexachloroethane	"	"	"		33	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		33	ND	"	
Isochloroanthracene	"	"	"		33	ND	"	
2-Methylnaphthalene	"	"	"		33	300	"	
2-Methylphenol	"	"	"		33	ND	"	
3-Methylphenol & 4-Methylphenol	"	"	"		33	ND	"	
1-Methylnaphthalene	"	"	"		33	1000	"	
2-Nitroaniline	"	"	"		170	ND	"	
3-Nitroaniline	"	"	"		170	ND	"	
4-Nitroaniline	"	"	"		170	ND	"	
Nitrobenzene	"	"	"		33	ND	"	
2-Nitrophenol	"	"	"		33	ND	"	
3-Nitrophenol	"	"	"		170	ND	"	
N-Nitrosodiphenylamine	"	"	"		33	ND	"	
N-Nitrosodi-n-propylamine	"	"	"		33	ND	"	
Pentachlorophenol	"	"	"		170	ND	"	
Phenanthrene	"	"	"		33	ND	"	
Phenol	"	"	"		33	ND	"	
Pyrene	"	"	"		33	ND	"	
1,2,4-Trichlorobenzene	"	"	"		33	ND	"	
1,4,5-Trichlorophenol	"	"	"		170	ND	"	
2,4,6-Trichlorophenol	"	"	"		33	ND	"	
Surrogate: 2-FP	"	"	"	25-120		36	%	
Surrogate: Phenol-d6	"	"	"	24-110		42	"	
Surrogate: 2,4,6-TBP	"	"	"	19-120		45	"	
Surrogate: Nitrobenzene-d5	"	"	"	23-120		45	"	
Surrogate: 2-FBP	"	"	"	30-120		59	"	
Surrogate: p-Terphenyl-d14	"	"	"	18-140		71	"	

Star Analytical, Inc.

*Refer to end of report for text of notes and definitions.

[Signature]

Lari Hall, Project Manager



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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

Sampled: 9/23/98 to 9/24/98
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Semivolatile Organic Compounds by EPA Method 8270C Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
No. Tank - NW			8090291-07				Soil	
Acenaphthene	10V8024	10/1/98	10/1/98		33	ND	ug/kg	
Acenaphthylene	"	"	"		33	ND	"	
Aniline	"	"	"		33	ND	"	
Anthracene	"	"	"		33	ND	"	
Benzoic Acid	"	"	"		170	ND	"	
Benzo (a) anthracene	"	"	"		33	ND	"	
Benzo (b) fluoranthene	"	"	"		33	ND	"	
Benzo (k) fluoranthene	"	"	"		33	ND	"	
Benzo (ghi) perylene	"	"	"		33	ND	"	
Benzo (a) pyrene	"	"	"		33	ND	"	
Benzyl alcohol	"	"	"		33	ND	"	
Bis(2-chloroethoxy)methane	"	"	"		33	ND	"	
Bis(2-chloroethyl)ether	"	"	"		33	ND	"	
Bis(2-chloroisopropyl)ether	"	"	"		33	ND	"	
Bis(2-ethylhexyl)phthalate	"	"	"		170	220	"	
4-Bromophenyl phenyl ether	"	"	"		33	ND	"	
Butyl benzyl phthalate	"	"	"		33	ND	"	
Carbazole	"	"	"		33	ND	"	
4-Chloroaniline	"	"	"		33	ND	"	
2-Chloronaphthalene	"	"	"		33	ND	"	
2-Chloro-3-methylphenol	"	"	"		33	ND	"	
2-Chlorophenol	"	"	"		33	ND	"	
4-Chlorophenyl phenyl ether	"	"	"		33	ND	"	
Chrysene	"	"	"		33	ND	"	
Dibenz (a,h) anthracene	"	"	"		33	ND	"	
Dibenzofuran	"	"	"		33	ND	"	
Di-n-butyl phthalate	"	"	"		170	ND	"	
1,3-Dichlorobenzene	"	"	"		33	ND	"	
1,4-Dichlorobenzene	"	"	"		33	ND	"	
1,2-Dichlorobenzene	"	"	"		33	ND	"	
2,3'-Dichlorobenzidine	"	"	"		170	ND	"	
1,4-Dichlorophenol	"	"	"		33	ND	"	
Diethyl phthalate	"	"	"		33	ND	"	
2,4-Dimethylphenol	"	"	"		33	ND	"	
Dimethyl phthalate	"	"	"		33	1400	"	
2,6-Dinitro-2-methylphenol	"	"	"		170	ND	"	
2,4-Dinitrophenol	"	"	"		170	ND	"	
2,4-Dinitrotoluene	"	"	"		33	ND	"	
2,6-Dinitrotoluene	"	"	"		33	ND	"	
Di-n-octyl phthalate	"	"	"		33	ND	"	
Fluoranthene	"	"	"		33	ND	"	

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[Signature]

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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
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Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
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Semivolatile Organic Compounds by EPA Method 8270C Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
So. Tank - NW (continued)			8090291-07				Soil	
Fluorene	10V8024	10/1/98	10/1/98		33	530	ug/kg	
Hexachlorobenzene	"	"	"		33	ND	"	
Hexachlorobutadiene	"	"	"		33	ND	"	
Hexachlorocyclopentadiene	"	"	"		33	ND	"	
Hexachloroethane	"	"	"		33	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		33	ND	"	
Isophorone	"	"	"		33	ND	"	
2-Methylnaphthalene	"	"	"		33	17000	"	
2-Methylphenol	"	"	"		33	ND	"	
3- & 4-Methylphenol	"	"	"		33	ND	"	
1-Methylphenol	"	"	"		33	32000	"	
2-Nitroaniline	"	"	"		170	ND	"	
3-Nitroaniline	"	"	"		170	ND	"	
4-Nitroaniline	"	"	"		170	ND	"	
Nitrobenzene	"	"	"		33	ND	"	
2-Nitrophenol	"	"	"		33	ND	"	
3-Nitrophenol	"	"	"		170	ND	"	
4-Nitrosodiphenylamine	"	"	"		33	ND	"	
N-Nitrosodi-n-propylamine	"	"	"		33	ND	"	
Pentachlorophenol	"	"	"		170	ND	"	
Phenanthrene	"	"	"		33	790	"	
Phenol	"	"	"		33	ND	"	
Pyrene	"	"	"		33	ND	"	
2,4-Trichlorobenzene	"	"	"		33	ND	"	
2,4,5-Trichlorophenol	"	"	"		170	ND	"	
2,4,6-Trichlorophenol	"	"	"		33	ND	"	
Surrogate: 2-FP	"	"	"	25-120		64	%	
Surrogate: Phenol-d6	"	"	"	24-110		45	"	
Surrogate: 2,4,6-TBP	"	"	"	19-120		64	"	
Surrogate: Nitrobenzene-d5	"	"	"	23-120		57	"	
Surrogate: 2-FBP	"	"	"	30-120		65	"	
Surrogate: p-Terphenyl-d14	"	"	"	18-140		88	"	

Star Analytical, Inc.

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Lari Hall, Project Manager



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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

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Total Metals by EPA 200 Series Methods
Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
Pit Water				8090291-19			Water	
Arsenic	10V8214	10/6/98	10/14/98	EPA 206.1	0.0050	ND	mg/l	
Cadmium	10V8209	"	"	EPA 213.2	0.010	ND	"	D
Lead	10V8210	"	"	EPA 239.2	0.0050	ND	"	
Selenium	10V8171	9/29/98	10/11/98	EPA 270.2	0.050	ND	"	7,D

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L Hall

Lari Hall, Project Manager



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(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



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Carrollton, TX 75006

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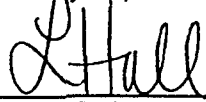
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Total Metals by EPA 6000/7000 Series Methods Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
Sump								
				8090291-11				
Arsenic	09V8442	9/29/98	9/30/98	EPA 6010B	5.0	ND	Soil mg/kg	
Barium	"	"	"	EPA 6010B	2.5	930	"	8
Cadmium	"	"	"	EPA 6010B	0.75	ND	"	
Chromium	"	"	"	EPA 6010B	0.75	ND	"	
Lead	"	"	"	EPA 6010B	5.0	6.0	"	
Selenium	"	"	"	EPA 6010B	5.0	ND	"	
Silver	10V8084	"	10/6/98	EPA 6010B	40	1100	"	D
Mercury	10V8104	10/1/98	10/1/98	EPA 7471A	0.040	0.31	"	
Cont.-Pit								
				8090291-12				
Arsenic	09V8442	9/29/98	9/30/98	EPA 6010B	5.0	ND	Soil mg/kg	
Barium	"	"	"	EPA 6010B	2.5	22	"	
Cadmium	"	"	"	EPA 6010B	0.75	ND	"	
Chromium	"	"	"	EPA 6010B	0.75	3.5	"	
Lead	"	"	"	EPA 6010B	5.0	ND	"	
Selenium	"	"	"	EPA 6010B	5.0	ND	"	
Silver	10V8084	"	10/6/98	EPA 6010B	2.0	28	"	
Mercury	10V8104	10/1/98	10/1/98	EPA 7471A	0.040	ND	"	
Cont.-1								
				8090291-13				
Arsenic	09V8442	9/29/98	9/30/98	EPA 6010B	5.0	ND	Soil mg/kg	
Barium	"	"	"	EPA 6010B	2.5	90	"	
Cadmium	"	"	"	EPA 6010B	0.75	ND	"	
Chromium	"	"	"	EPA 6010B	0.75	7.3	"	
Lead	"	"	"	EPA 6010B	5.0	ND	"	
Selenium	"	"	"	EPA 6010B	5.0	ND	"	
Silver	10V8084	"	10/6/98	EPA 6010B	2.0	5.3	"	
Mercury	10V8104	10/1/98	10/1/98	EPA 7471A	0.040	ND	"	
Cont.-2								
				8090291-14				
Arsenic	09V8442	9/29/98	9/30/98	EPA 6010B	5.0	ND	Soil mg/kg	
Barium	"	"	"	EPA 6010B	2.5	43	"	
Cadmium	"	"	"	EPA 6010B	0.75	ND	"	
Chromium	"	"	"	EPA 6010B	0.75	3.5	"	
Lead	"	"	"	EPA 6010B	5.0	ND	"	
Selenium	"	"	"	EPA 6010B	5.0	ND	"	
Silver	10V8084	"	10/6/98	EPA 6010B	2.0	5.8	"	
Mercury	10V8104	10/1/98	10/1/98	EPA 7471A	0.040	0.066	"	
Cont.-3								
				8090291-15				
Arsenic	09V8442	9/29/98	9/30/98	EPA 6010B	5.0	ND	Soil mg/kg	

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Lari Hall, Project Manager



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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



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2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
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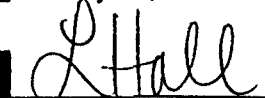
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Total Metals by EPA 6000/7000 Series Methods Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
Cont.- 3 (continued)								
				8090291-15				
Barium	09V8442	9/29/98	9/30/98	EPA 6010B	2.5	83	mg/kg	
Cadmium	"	"	"	EPA 6010B	0.75	ND	"	
Chromium	"	"	"	EPA 6010B	0.75	9.0	"	
Lead	"	"	"	EPA 6010B	5.0	ND	"	
Selenium	"	"	"	EPA 6010B	5.0	ND	"	
Silver	10V8084	"	10/6/98	EPA 6010B	2.0	5.5	"	
Mercury	10V8104	10/1/98	10/1/98	EPA 7471A	0.040	0.043	"	
Cont.- 4								
				8090291-16				
Arsenic	09V8442	9/29/98	9/30/98	EPA 6010B	5.0	ND	mg/kg	
Barium	"	"	"	EPA 6010B	2.5	85	"	
Cadmium	"	"	"	EPA 6010B	0.75	ND	"	
Chromium	"	"	"	EPA 6010B	0.75	8.3	"	
Lead	"	"	"	EPA 6010B	5.0	ND	"	
Selenium	"	"	"	EPA 6010B	5.0	ND	"	
Silver	10V8084	"	10/6/98	EPA 6010B	2.0	4.8	"	
Mercury	10V8104	10/1/98	10/1/98	EPA 7471A	0.040	ND	"	
Cont.- 5								
				8090291-17				
Arsenic	09V8442	9/29/98	9/30/98	EPA 6010B	5.0	ND	mg/kg	
Barium	"	"	"	EPA 6010B	2.5	90	"	
Cadmium	"	"	"	EPA 6010B	0.75	ND	"	
Chromium	"	"	"	EPA 6010B	0.75	7.8	"	
Lead	"	"	"	EPA 6010B	5.0	ND	"	
Selenium	"	"	"	EPA 6010B	5.0	ND	"	
Silver	10V8084	"	10/6/98	EPA 6010B	2.0	6.0	"	
Mercury	10V8104	10/1/98	10/1/98	EPA 7471A	0.040	ND	"	
Tank								
				8090291-18				
Arsenic	10V8095	9/29/98	10/7/98	EPA 6010B	0.20	ND	mg/l	
Barium	"	"	"	EPA 6010B	0.10	0.17	"	
Cadmium	"	"	"	EPA 6010B	0.030	0.15	"	
Chromium	"	"	"	EPA 6010B	0.030	0.031	"	
Lead	"	"	"	EPA 6010B	0.10	0.13	"	
Selenium	"	"	"	EPA 6010B	0.20	ND	"	
Silver	"	"	"	EPA 6010B	0.030	ND	"	
Mercury	10V8105	10/1/98	10/1/98	EPA 7470A	0.00200	ND	"	
Pit Water								
				8090291-19				
Barium	10V8095	9/29/98	10/7/98	EPA 6010B	0.10	ND	mg/l	
Chromium	"	"	"	EPA 6010B	0.030	ND	"	

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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

Total Metals by EPA 6000/7000 Series Methods Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
<u>Pit Water (continued)</u>				<u>8090291-19</u>			<u>Water</u>	
Silver	10V8095	9/29/98	10/7/98	EPA 6010B	0.030	ND	mg/l	
Mercury	10V8105	10/1/98	10/1/98	EPA 7470A	0.00200	ND	"	

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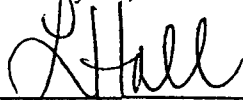
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Conventional Chemistry Parameters by APHA/EPA Methods Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
<u>So. Tank - SW</u> Petroleum Oil Hydrocarbons	09V8446	9/30/98	9/30/98	<u>8090291-01</u> EPA 418.1	5.0	55	Soil mg/kg	
<u>So. Tank - EW</u> Petroleum Oil Hydrocarbons	09V8446	9/30/98	9/30/98	<u>8090291-02</u> EPA 418.1	5.0	510	Soil mg/kg	
<u>So. Tank - NW</u> Petroleum Oil Hydrocarbons	09V8446	9/30/98	9/30/98	<u>8090291-03</u> EPA 418.1	5.0	ND	Soil mg/kg	
<u>So. Tank - WW</u> Petroleum Oil Hydrocarbons	09V8446	9/30/98	9/30/98	<u>8090291-04</u> EPA 418.1	5.0	1400	Soil mg/kg	
<u>No. Tank - SW</u> Petroleum Oil Hydrocarbons	09V8446	9/30/98	9/30/98	<u>8090291-05</u> EPA 418.1	5.0	95	Soil mg/kg	
<u>No. Tank - EW</u> Petroleum Oil Hydrocarbons	09V8446	9/30/98	9/30/98	<u>8090291-06</u> EPA 418.1	50	1800	Soil mg/kg	D
<u>So. Tank - NW</u> Petroleum Oil Hydrocarbons	09V8446	9/30/98	9/30/98	<u>8090291-07</u> EPA 418.1	50	2600	Soil mg/kg	D
<u>So. Tank - WW</u> Petroleum Oil Hydrocarbons	09V8446	9/30/98	9/30/98	<u>8090291-08</u> EPA 418.1	5.0	190	Soil mg/kg	
<u>Stockpile</u> pH	09V8389	9/28/98	9/28/98	<u>8090291-10</u> EPA 9045B		6.12	Soil pH units	
Reactivity	09V8382	"	"	N/A		ND	N/A	
<u>Pump</u> pH	09V8389	9/28/98	9/28/98	<u>8090291-11</u> EPA 9045B		2.15	Soil pH units	
<u>Cont.-Pit</u> pH	09V8389	9/28/98	9/28/98	<u>8090291-12</u> EPA 9045B		6.79	Soil pH units	
<u>Cont.-1</u> pH	09V8389	9/28/98	9/28/98	<u>8090291-13</u> EPA 9045B		7.68	Soil pH units	
<u>Cont.-2</u> pH	09V8389	9/28/98	9/28/98	<u>8090291-14</u> EPA 9045B		7.67	Soil pH units	
<u>Cont.-3</u> pH	09V8389	9/28/98	9/28/98	<u>8090291-15</u> EPA 9045B		7.47	Soil pH units	

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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



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2340 Trinity Mills, Suite 230
Carrollton, TX 75006

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Conventional Chemistry Parameters by APHA/EPA Methods Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
<u>Cont.- 4</u> pH	09V8389	9/28/98	9/28/98	<u>8090291-16</u> EPA 9045B		7.86	<u>Soil</u> pH units	
<u>Cont.- 5</u> H	09V8389	9/28/98	9/28/98	<u>8090291-17</u> EPA 9045B		7.89	<u>Soil</u> pH units	
<u>Tank</u> Petroleum Oil Hydrocarbons	09V8416	9/29/98	9/29/98	<u>8090291-18</u> EPA 418.1	10	110	<u>Water</u> mg/l	D
<u>Pit Water</u> Total Dissolved Solids	10V8117	10/1/98	10/1/98	<u>8090291-19</u> EPA 160.1	10	4600	<u>Water</u> mg/l	

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2340 Trinity Mills, Suite 230
Marrollton, TX 75006

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Physical Parameters by APHA/ASTM/EPA Methods Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
Stockpile				8090291-10			Soil	
Flashpoint	09V8451	9/30/98	9/30/98	EPA 1010	70.0	ND	°C	
Reactive Cyanide	09V8425	9/29/98	9/29/98	EPA 9010B	250	ND	mg/kg	
Reactive Sulfide	09V8455	9/30/98	9/30/98	EPA 9030B	1.0	ND	"	

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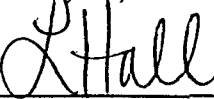
Sampled: 9/23/98 to 9/24/98
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TCLP Volatile Organic Compounds by EPA Method 1311/8260 Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
Stockpile			8090291-10				Soil	
Benzene	10V8021	10/1/98	10/1/98		0.100	ND	mg/l	D
2-Butanone	"	"	"		0.500	ND	"	D
Carbon tetrachloride	"	"	"		0.100	ND	"	D
Chlorobenzene	"	"	"		0.100	ND	"	D
Chloroform	"	"	"		0.100	ND	"	D
1,2-Dichloroethane	"	"	"		0.100	ND	"	D
1,1-Dichloroethene	"	"	"		0.100	ND	"	D
Tetrachloroethene	"	"	"		0.100	ND	"	D
Trichloroethene	"	"	"		0.100	ND	"	D
Vinyl chloride	"	"	"		0.100	ND	"	D
Surrogate: DBFM	"	"	"	86.0-118		102	%	D
Surrogate: Toluene-d8	"	"	"	88.0-110		101	"	D
Surrogate: 4-BFB	"	"	"	86.0-115		98.0	"	D

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Cari Hall, Project Manager



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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Ft. Worth, TX 75006

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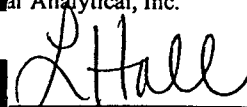
Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

TCLP Semivolatiles by EPA Method 1311/8270
Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
Rockpile				8090291-10			Soil	
o-Cresol	10V8040	10/1/98	10/2/98		0.00800	ND	mg/l	
m,p-Cresols	"	"	"		0.00800	ND	"	
1,4-Dichlorobenzene	"	"	"		0.00800	ND	"	
2,4-Dinitrotoluene	"	"	"		0.00800	ND	"	
Hexachlorobenzene	"	"	"		0.00800	ND	"	
Hexachlorobutadiene	"	"	"		0.00800	ND	"	
Hexachloroethane	"	"	"		0.00800	ND	"	
Nitrobenzene	"	"	"		0.00800	ND	"	
Pentachlorophenol	"	"	"		0.0400	ND	"	
Pyridine	"	"	"		0.0400	ND	"	
2,4,5-Trichlorophenol	"	"	"		0.0400	ND	"	
2,4,6-Trichlorophenol	"	"	"		0.00800	ND	"	
Surrogate: 2-FP	"	"	"	43.0-116		51.6	%	
Surrogate: Phenol-d6	"	"	"	10.0-94.0		45.0	"	
Surrogate: 2,4,6-TBP	"	"	"	10.0-123		69.0	"	
Surrogate: Nitrobenzene-d5	"	"	"	35.0-114		56.5	"	
Surrogate: 2-FBP	"	"	"	43.0-116		62.4	"	
Surrogate: p-Terphenyl-d14	"	"	"	33.0-141		112	"	

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Lari Hall, Project Manager



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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
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TCLP Metals by EPA 1311/6000/7000 Series Methods Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
Stockpile								
8090291-10								
Arsenic	10V8096	10/2/98	10/7/98	EPA 6010B	0.200	ND	mg/l	
Barium	"	"	"	EPA 6010B	0.230	0.450	"	
Cadmium	"	"	"	EPA 6010B	0.0300	ND	"	
Chromium	"	"	"	EPA 6010B	0.0300	ND	"	
Lead	"	"	"	EPA 6010B	0.100	ND	"	
Selenium	"	"	"	EPA 6010B	0.200	ND	"	
Silver	"	"	"	EPA 6010B	0.0300	ND	"	
Mercury	10V8103	10/5/98	10/6/98	EPA 7470A	0.000200	ND	"	

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L Hall

Lari Hall, Project Manager



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(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

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Project Manager: Destini Baldonado

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Diesel Hydrocarbons (C12-C24) by EPA Method 8015 (modified)/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 09V8439										
Blank										
Date Prepared: 9/28/98										
Extraction Method: EPA 3510/600 Series										
09V8439-BLK1										
Diesel Range Hydrocarbons	9/28/98			ND	mg/l	0.20				
Surrogate: o-Terphenyl	"	0.10		0.070	"	49-170	70			
LCS										
09V8439-BS1										
Diesel Range Hydrocarbons	9/28/98	1.0		0.73	mg/l	60-120	73			
Surrogate: o-Terphenyl	"	0.10		0.11	"	49-170	110			
LCS Dup										
09V8439-BSD1										
Diesel Range Hydrocarbons	9/28/98	1.0		1.1	mg/l	60-120	110	30	40	
Surrogate: o-Terphenyl	"	0.10		0.11	"	49-170	110			
Matrix Spike										
09V8439-MS1 8090259-03										
Diesel Range Hydrocarbons	9/28/98	2.0	ND	1.2	mg/l	60-120	60			
Surrogate: o-Terphenyl	"	0.20		0.17	"	49-170	85			
Matrix Spike Dup										
09V8439-MSD1 8090259-03										
Diesel Range Hydrocarbons	9/28/98	2.0	ND	1.4	mg/l	60-120	70	30	15	
Surrogate: o-Terphenyl	"	0.20		0.18	"	49-170	90			
Batch: 09V8445										
Date Prepared: 9/28/98										
Extraction Method: EPA 3550										
Blank										
09V8445-BLK1										
Diesel Range Hydrocarbons	9/29/98			ND	mg/kg	1.0				
Surrogate: o-Terphenyl	"	1.7		1.7	"	49-170	100			
LCS										
09V8445-BS1										
Diesel Range Hydrocarbons	9/29/98	17		11	mg/kg	60-120	65			
Surrogate: o-Terphenyl	"	1.7		1.4	"	49-170	82			
LCS Dup										
09V8445-BSD1										
Diesel Range Hydrocarbons	9/29/98	17		11	mg/kg	60-120	65	30	0	
Surrogate: o-Terphenyl	"	1.7		1.5	"	49-170	88			
Matrix Spike										
09V8445-MS1 8090291-16										
Diesel Range Hydrocarbons	9/29/98	17	5.4	15	mg/kg	60-120	56			
Surrogate: o-Terphenyl	"	1.7		1.7	"	49-170	100			
Matrix Spike Dup										
09V8445-MSD1 8090291-16										
Diesel Range Hydrocarbons	9/29/98	17	5.4	18	mg/kg	60-120	74	30	28	
Surrogate: o-Terphenyl	"	1.7		1.7	"	49-170	100			

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L Hall

Lari Hall, Project Manager

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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
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Volatile Organic Compounds by EPA Method 8260/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 09V8447		Date Prepared: 9/30/98			Extraction Method: EPA 5030					
Blank	09V8447-BLK1									
Acetone	9/30/98			ND	ug/l		10			
Benzene	"			ND	"		2.0			
Bromobenzene	"			ND	"		2.0			
Bromochloromethane	"			ND	"		2.0			
Bromodichloromethane	"			ND	"		2.0			
Bromoform	"			ND	"		2.0			
Bromomethane	"			ND	"		2.0			
2-Butanone	"			ND	"		10			
Butylbenzene	"			ND	"		2.0			
sec-Butylbenzene	"			ND	"		2.0			
tert-Butylbenzene	"			ND	"		2.0			
Carbon disulfide	"			ND	"		2.0			
Carbon tetrachloride	"			ND	"		2.0			
Chlorobenzene	"			ND	"		2.0			
Chloroethane	"			ND	"		2.0			
Chloroform	"			ND	"		2.0			
Chloromethane	"			ND	"		2.0			
2-Chlorotoluene	"			ND	"		2.0			
4-Chlorotoluene	"			ND	"		2.0			
Bromochloromethane	"			ND	"		2.0			
1,2-Dibromo-3-chloropropane	"			ND	"		2.0			
1,2-Dibromoethane	"			ND	"		2.0			
Dibromomethane	"			ND	"		2.0			
1,2-Dichlorobenzene	"			ND	"		2.0			
1,3-Dichlorobenzene	"			ND	"		2.0			
1,4-Dichlorobenzene	"			ND	"		2.0			
Dichlorodifluoromethane	"			ND	"		2.0			
1,1-Dichloroethane	"			ND	"		2.0			
1,2-Dichloroethane	"			ND	"		2.0			
1,1-Dichloroethene	"			ND	"		2.0			
cis-1,2-Dichloroethene	"			ND	"		2.0			
trans-1,2-Dichloroethene	"			ND	"		2.0			
1,2-Dichloropropane	"			ND	"		2.0			
1,3-Dichloropropane	"			ND	"		2.0			
1,2-Dichloropropane	"			ND	"		2.0			
1,1-Dichloropropene	"			ND	"		2.0			
cis-1,3-Dichloropropene	"			ND	"		2.0			
trans-1,3-Dichloropropene	"			ND	"		2.0			
Ethylbenzene	"			ND	"		2.0			
Hexachlorobutadiene	"			ND	"		2.0			

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Carrollton, TX 75006

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Volatile Organic Compounds by EPA Method 8260/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	09V8447-BLK1									
2-Hexanone	9/30/98			ND	ug/l	10				
Isopropylbenzene	"			ND	"	2.0				
Isopropyltoluene	"			ND	"	2.0				
Methylene chloride	"			ND	"	10				
Methyl tert-butyl ether	"			ND	"	2.0				
Methyl-2-pentanone	"			ND	"	10				
naphthalene	"			ND	"	2.0				
n-Propylbenzene	"			ND	"	2.0				
Styrene	"			ND	"	2.0				
1,1,1,2-Tetrachloroethane	"			ND	"	2.0				
1,1,2,2-Tetrachloroethane	"			ND	"	2.0				
Tetrachloroethene	"			ND	"	2.0				
Toluene	"			ND	"	2.0				
1,2,3-Trichlorobenzene	"			ND	"	2.0				
1,2,4-Trichlorobenzene	"			ND	"	2.0				
1,1,1-Trichloroethane	"			ND	"	2.0				
1,1,2-Trichloroethane	"			ND	"	2.0				
Trichloroethene	"			ND	"	2.0				
Trichlorofluoromethane	"			ND	"	2.0				
1,2,3-Trichloropropane	"			ND	"	2.0				
1,2,4-Trimethylbenzene	"			ND	"	2.0				
1,3,5-Trimethylbenzene	"			ND	"	2.0				
Vinyl acetate	"			ND	"	2.0				
Vinyl chloride	"			ND	"	2.0				
m,p-Xylene	"			ND	"	2.0				
o-Xylene	"			ND	"	2.0				
Surrogate: DBFM	"	50		50	"	86-120	100			
Surrogate: Toluene-d8	"	50		50	"	88-110	100			
Surrogate: 4-BFB	"	50		50	"	86-120	100			
CS	09V8447-BS1									
Benzene	9/30/98	50		54	ug/l	76-130	110			
Chlorobenzene	"	50		59	"	75-130	120			
1,1-Dichloroethene	"	50		46	"	58-150	92			
Toluene	"	50		57	"	76-130	110			
Trichloroethene	"	50		56	"	71-140	110			
Surrogate: DBFM	"	50		50	"	86-120	100			
Surrogate: Toluene-d8	"	50		50	"	88-110	100			
Surrogate: 4-BFB	"	50		49	"	86-120	98			

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Lari Hall, Project Manager

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(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

Volatile Organic Compounds by EPA Method 8260/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
CS Dup	09V8447-BSD1									
Benzene	9/30/98	50		54	ug/l	76-130	110	21	0	
Chlorobenzene	"	50		60	"	75-130	120	21	0	
1,1-Dichloroethene	"	50		44	"	58-150	88	22	4.4	
Toluene	"	50		58	"	76-130	120	21	8.7	
Trichloroethene	"	50		56	"	71-140	110	24	0	
Surrogate: DBFM	"	50		51	"	86-120	100			
Surrogate: Toluene-d8	"	50		50	"	88-110	100			
Surrogate: 4-BFB	"	50		49	"	86-120	98			

Batch: 10V8023

Date Prepared: 10/1/98

Extraction Method: EPA 5030

Blank

10V8023-BLK1

Acetone	10/1/98		ND	ug/kg	25
Benzene	"		ND	"	2.0
Bromobenzene	"		ND	"	2.0
Bromochloromethane	"		ND	"	2.0
Bromodichloromethane	"		ND	"	2.0
Bromoform	"		ND	"	2.0
Bromomethane	"		ND	"	2.0
2-Butanone	"		ND	"	10
Butylbenzene	"		ND	"	2.0
sec-Butylbenzene	"		ND	"	2.0
tert-Butylbenzene	"		ND	"	2.0
Carbon disulfide	"		ND	"	2.0
Carbon tetrachloride	"		ND	"	2.0
Chlorobenzene	"		ND	"	2.0
Chloroethane	"		ND	"	2.0
Chloroform	"		ND	"	2.0
Chloromethane	"		ND	"	2.0
2-Chlorotoluene	"		ND	"	2.0
4-Chlorotoluene	"		ND	"	2.0
Dibromochloromethane	"		ND	"	2.0
1,2-Dibromo-3-chloropropane	"		ND	"	2.0
1,2-Dibromoethane	"		ND	"	2.0
Dibromomethane	"		ND	"	2.0
1,2-Dichlorobenzene	"		ND	"	2.0
1,3-Dichlorobenzene	"		ND	"	2.0
1,4-Dichlorobenzene	"		ND	"	2.0
Dichlorodifluoromethane	"		ND	"	2.0
1,1-Dichloroethane	"		ND	"	2.0
1,2-Dichloroethane	"		ND	"	2.0
1,1-Dichloroethene	"		ND	"	2.0

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L. Hall
Lari Hall, Project Manager



Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

Volatile Organic Compounds by EPA Method 8260/Quality Control
Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	10V8023-BLK1									
cis-1,2-Dichloroethene	10/1/98			ND	ug/kg	2.0				
trans-1,2-Dichloroethene	"			ND	"	2.0				
1,2-Dichloropropane	"			ND	"	2.0				
1,3-Dichloropropane	"			ND	"	2.0				
2,2-Dichloropropane	"			ND	"	2.0				
1,1-Dichloropropene	"			ND	"	2.0				
cis-1,3-Dichloropropene	"			ND	"	2.0				
trans-1,3-Dichloropropene	"			ND	"	2.0				
Ethylbenzene	"			ND	"	2.0				
Hexachlorobutadiene	"			ND	"	2.0				
2-Hexanone	"			ND	"	10				
Isopropylbenzene	"			ND	"	2.0				
Isopropyltoluene	"			ND	"	2.0				
Dichloromethylene chloride	"			ND	"	50				
Methyl tert-butyl ether	"			ND	"	2.0				
4-Methyl-2-pentanone	"			ND	"	10				
Naphthalene	"			ND	"	2.0				
n-Propylbenzene	"			ND	"	2.0				
Styrene	"			ND	"	2.0				
1,1,1,2-Tetrachloroethane	"			ND	"	2.0				
1,1,2,2-Tetrachloroethane	"			ND	"	2.0				
Tetrachloroethene	"			ND	"	2.0				
Toluene	"			ND	"	2.0				
1,2,3-Trichlorobenzene	"			ND	"	2.0				
1,2,4-Trichlorobenzene	"			ND	"	2.0				
1,1,1-Trichloroethane	"			ND	"	2.0				
1,1,2-Trichloroethane	"			ND	"	2.0				
Trichloroethene	"			ND	"	2.0				
Trichlorofluoromethane	"			ND	"	2.0				
1,2,3-Trichloropropane	"			ND	"	2.0				
1,2,4-Trimethylbenzene	"			ND	"	2.0				
1,3,5-Trimethylbenzene	"			ND	"	2.0				
Vinyl acetate	"			ND	"	2.0				
Vinyl chloride	"			ND	"	2.0				
m,p-Xylene	"			ND	"	2.0				
o-Xylene	"			ND	"	2.0				
Surrogate: DBFM	"	50		51	"	80-120	100			
Surrogate: Toluene-d8	"	50		51	"	81-120	100			
Surrogate: 4-BFB	"	50		49	"	74-120	98			

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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

Volatile Organic Compounds by EPA Method 8260/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
CS <u>10V8023-BS1</u>										
Benzene	10/1/98	50		54	ug/kg	66-140	110			
Chlorobenzene	"	50		60	"	60-130	120			
1,1-Dichloroethene	"	50		41	"	59-170	82			
Toluene	"	50		58	"	59-130	120			
Trichloroethene	"	50		55	"	62-140	110			
Surrogate: DBFM	"	50		51	"	80-120	100			
Surrogate: Toluene-d8	"	50		50	"	81-120	100			
Surrogate: 4-BFB	"	50		51	"	74-120	100			
CS Dup <u>10V8023-BSD1</u>										
Benzene	10/1/98	50		53	ug/kg	66-140	110	21	0	
Chlorobenzene	"	50		60	"	60-130	120	21	0	
1,1-Dichloroethene	"	50		41	"	59-170	82	22	0	
Toluene	"	50		58	"	59-130	120	21	0	
Trichloroethene	"	50		56	"	62-140	110	24	0	
Surrogate: DBFM	"	50		51	"	80-120	100			
Surrogate: Toluene-d8	"	50		50	"	81-120	100			
Surrogate: 4-BFB	"	50		50	"	74-120	100			

Star Analytical, Inc.

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Lari Hall, Project Manager

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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Ft. Worth, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
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Semivolatile Organic Compounds by EPA Method 8270C/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recovery Limits	Recovery %	RPD Limit	RPD %	Notes*
Batch: 10V8024		Date Prepared: 10/1/98			Extraction Method: EPA 3550					
Blank		10V8024-BLK1								
Acenaphthene	10/1/98			ND	ug/kg		33			
Acenaphthylene	"			ND	"		33			
Aniline	"			ND	"		33			
Anthracene	"			ND	"		33			
Benzoic Acid	"			ND	"		170			
Benzo (a) anthracene	"			ND	"		33			
Benzo (b) fluoranthene	"			ND	"		33			
Benzo (k) fluoranthene	"			ND	"		33			
Benzo (ghi) perylene	"			ND	"		33			
Benzo (a) pyrene	"			ND	"		33			
Benzyl alcohol	"			ND	"		33			
Bis(2-chloroethoxy)methane	"			ND	"		33			
Bis(2-chloroethyl)ether	"			ND	"		33			
Bis(2-chloroisopropyl)ether	"			ND	"		33			
Bis(2-ethylhexyl)phthalate	"			ND	"		170			
Bromophenyl phenyl ether	"			ND	"		33			
Butyl benzyl phthalate	"			ND	"		33			
Carbazole	"			ND	"		33			
4-Chloroaniline	"			ND	"		33			
Chloronaphthalene	"			ND	"		33			
4-Chloro-3-methylphenol	"			ND	"		33			
2-Chlorophenol	"			ND	"		33			
Chlorophenyl phenyl ether	"			ND	"		33			
Chrysene	"			ND	"		33			
Dibenz (a,h) anthracene	"			ND	"		33			
Dibenzofuran	"			ND	"		33			
Di-n-butyl phthalate	"			ND	"		170			
1,3-Dichlorobenzene	"			ND	"		33			
1,4-Dichlorobenzene	"			ND	"		33			
2,2-Dichlorobenzene	"			ND	"		33			
2,3'-Dichlorobenzidine	"			ND	"		170			
2,4-Dichlorophenol	"			ND	"		33			
Diethyl phthalate	"			ND	"		33			
4-Dimethylphenol	"			ND	"		33			
Dimethyl phthalate	"			ND	"		33			
4,6-Dinitro-2-methylphenol	"			ND	"		170			
4-Dinitrophenol	"			ND	"		170			
4-Dinitrotoluene	"			ND	"		33			
2,6-Dinitrotoluene	"			ND	"		33			
Di-n-octyl phthalate	"			ND	"		33			

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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Marrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

Semivolatile Organic Compounds by EPA Method 8270C/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)										
10Y8024-BLK1										
Fluoranthene	10/1/98			ND	ug/kg	33				
Fluorene	"			ND	"	33				
Hexachlorobenzene	"			ND	"	33				
Hexachlorobutadiene	"			ND	"	33				
Hexachlorocyclopentadiene	"			ND	"	33				
Hexachloroethane	"			ND	"	33				
Indeno (1,2,3-cd) pyrene	"			ND	"	33				
Isophorone	"			ND	"	33				
2-Methylnaphthalene	"			ND	"	33				
Methylphenol	"			ND	"	33				
2,4-Dimethylphenol	"			ND	"	33				
Naphthalene	"			ND	"	33				
2-Nitroaniline	"			ND	"	170				
3-Nitroaniline	"			ND	"	170				
4-Nitroaniline	"			ND	"	170				
Nitrobenzene	"			ND	"	33				
2-Nitrophenol	"			ND	"	33				
3-Nitrophenol	"			ND	"	170				
N-Nitrosodiphenylamine	"			ND	"	33				
N-Nitrosodi-n-propylamine	"			ND	"	33				
2,4-Dichlorophenol	"			ND	"	170				
Phenanthrene	"			ND	"	33				
Phenol	"			ND	"	33				
Pyrene	"			ND	"	33				
1,2,4-Trichlorobenzene	"			ND	"	33				
2,4,5-Trichlorophenol	"			ND	"	170				
2,4,6-Trichlorophenol	"			ND	"	33				
Surrogate: 2-FP	"	3300		1100	"	25-120	33			
Surrogate: Phenol-d6	"	3300		1400	"	24-110	42			
Surrogate: 2,4,6-TBP	"	3300		2300	"	19-120	70			
Surrogate: Nitrobenzene-d5	"	1700		760	"	23-120	45			
Surrogate: 2-FBP	"	1700		1900	"	30-120	110			
Surrogate: p-Terphenyl-d14	"	1700		1300	"	18-140	76			
CS										
10Y8024-BS1										
Benaphthene	10/1/98	1700		990	ug/kg	31-140	58			
4-Chloro-3-methylphenol	"	3300		1700	"	26-100	52			
2-Chlorophenol	"	3300		1700	"	25-100	52			
1,4-Dichlorobenzene	"	1700		740	"	28-100	44			
2,4-Dinitrotoluene	"	1700		990	"	28-89	58			
4-Nitrophenol	"	3300		1800	"	11-110	55			

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L Hall
Lari Hall, Project Manager



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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
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2340 Trinity Mills, Suite 230
Carrollton, TX 75006

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Semivolatile Organic Compounds by EPA Method 8270C/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
CS (continued)										
10V8024-BS1										
N-Nitrosodi-n-propylamine	10/1/98	1700		900	ug/kg	41-130	53			
Pentachlorophenol	"	3300		2000	"	17-110	61			
Phenol	"	3300		1500	"	26-90	45			
Pyrene	"	1700		1200	"	35-140	71			
1,2,4-Trichlorobenzene	"	1700		890	"	38-110	52			
CS Dup										
10V8024-BSD1										
Acenaphthene	10/1/98	1700		940	ug/kg	31-140	55	19	5.3	
4-Chloro-3-methylphenol	"	3300		1700	"	26-100	52	33	0	
2-Chlorophenol	"	3300		1600	"	25-100	48	50	8.0	
1,4-Dichlorobenzene	"	1700		700	"	28-100	41	27	7.1	
2,4-Dinitrotoluene	"	1700		900	"	28-89	53	47	9.0	
4-Nitrophenol	"	3300		1700	"	11-110	52	50	5.6	
N-Nitrosodi-n-propylamine	"	1700		850	"	41-130	50	38	5.8	
Pentachlorophenol	"	3300		1700	"	17-110	52	47	16	
Phenol	"	3300		1500	"	26-90	45	35	0	
Pyrene	"	1700		1000	"	35-140	59	36	18	
1,2,4-Trichlorobenzene	"	1700		840	"	38-110	49	23	5.9	
Matrix Spike										
10V8024-MS1 8090189-31										
Acenaphthene	10/1/98	1700	ND	1000	ug/kg	31-140	59			
4-Chloro-3-methylphenol	"	3300	ND	1800	"	26-100	55			
2-Chlorophenol	"	3300	ND	1800	"	25-100	55			
1,4-Dichlorobenzene	"	1700	ND	780	"	28-100	46			
2,4-Dinitrotoluene	"	1700	ND	960	"	28-89	56			
4-Nitrophenol	"	3300	ND	1700	"	11-110	52			
N-Nitrosodi-n-propylamine	"	1700	ND	910	"	41-130	54			
Pentachlorophenol	"	3300	ND	1900	"	17-110	58			
Phenol	"	3300	ND	1700	"	26-90	52			
Pyrene	"	1700	ND	1100	"	35-140	65			
1,2,4-Trichlorobenzene	"	1700	ND	940	"	38-110	55			

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(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

Total Metals by EPA 200 Series Methods/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 10V8171										
Date Prepared: 9/29/98										
Extraction Method: General Preparation										
Blank	10V8171-BLK1									
Selenium	10/11/98			ND	mg/l	0.0050				
LCS	10V8171-BS1									
Selenium	10/11/98	1.0		1.1	mg/l	80-120	110			D
LCS Dup	10V8171-BSD1									
Selenium	10/11/98	1.0		1.2	mg/l	80-120	120	30	8.7	D
Batch: 10V8209										
Date Prepared: 10/6/98										
Extraction Method: General Preparation										
Blank	10V8209-BLK1									
Cadmium	10/14/98			ND	mg/l	0.0010				
LCS	10V8209-BS1									
Cadmium	10/14/98	1.0		1.0	mg/l	80-120	100			D
LCS Dup	10V8209-BSD1									
Cadmium	10/14/98	1.0		1.1	mg/l	80-120	110	30	9.5	D
Batch: 10V8210										
Date Prepared: 10/6/98										
Extraction Method: General Preparation										
Blank	10V8210-BLK1									
Lead	10/14/98			ND	mg/l	0.0050				
LCS	10V8210-BS1									
Lead	10/14/98	1.0		1.0	mg/l	80-120	100			D
LCS Dup	10V8210-BSD1									
Lead	10/14/98	1.0		0.99	mg/l	80-120	99	30	1.0	D
Matrix Spike	10V8210-MS1 8100007-06									
Lead	10/14/98	0.025	ND	0.024	mg/l	80-120	96			
Batch: 10V8214										
Date Prepared: 10/6/98										
Extraction Method: General Preparation										
Blank	10V8214-BLK1									
Arsenic	10/14/98			ND	mg/l	0.0050				
LCS	10V8214-BS1									
Arsenic	10/14/98	1.0		1.1	mg/l	80-120	110			D
LCS Dup	10V8214-BSD1									
Arsenic	10/14/98	1.0		1.2	mg/l	80-120	120		8.7	D

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L Hall
Lari Hall, Project Manager

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14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

Total Metals by EPA 6000/7000 Series Methods/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 09V8442										
Blank										
			Date Prepared: 9/29/98		Extraction Method: General Preparation					
			09V8442-BLK1							
Arsenic	9/30/98			ND	mg/kg	5.0				
Barium	"			ND	"	2.5				
Cadmium	"			ND	"	0.75				
Chromium	"			ND	"	0.75				
Lead	"			ND	"	5.0				
Selenium	"			ND	"	5.0				
LCS										
			09V8442-BS1							
Arsenic	9/30/98	25		28	mg/kg	80-120	110			
Barium	"	25		28	"	80-120	110			
Cadmium	"	25		28	"	80-120	110			
Chromium	"			28	"	80-120				
Lead	"	25		28	"	80-120	110			
Selenium	"	25		25	"	80-120	100			
LCS Dup										
			09V8442-BSD1							
Arsenic	9/30/98	25		25	mg/kg	80-120	100	30	9.5	
Barium	"	25		25	"	80-120	100	30	9.5	
Cadmium	"	25		25	"	80-120	100	30	9.5	
Chromium	"			28	"	80-120		30		
Lead	"	25		25	"	80-120	100	30	9.5	
Selenium	"	25		25	"	80-120	100	30	0	
Batch: 10V8084										
Blank										
			Date Prepared: 9/29/98		Extraction Method: General Preparation					
			10V8084-BLK1							
Silver	10/6/98			ND	mg/kg	2.0				
LCS										
			10V8084-BS1							
Silver	10/6/98	25		25	mg/kg	70-130	100			
LCS Dup										
			10V8084-BSD1							
Silver	10/6/98	25		22	mg/kg	70-130	88	20	13	
Batch: 10V8095										
Blank										
			Date Prepared: 9/29/98		Extraction Method: General Preparation					
			10V8095-BLK1							
Arsenic	10/7/98			ND	mg/l	0.20				
Barium	"			ND	"	0.10				
Cadmium	"			ND	"	0.030				
Chromium	"			ND	"	0.030				
Lead	"			ND	"	0.10				

Star Analytical, Inc.

*Refer to end of report for text of notes and definitions.

L Hall
Lari Hall, Project Manager



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Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

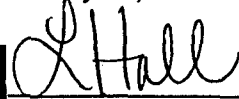
Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

Total Metals by EPA 6000/7000 Series Methods/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)										
10V8095-BLK1										
Selenium	10/7/98			ND	mg/l	0.20				
Silver	"			ND	"	0.030				
LCS										
10V8095-BS1										
Arsenic	10/7/98	1.0		1.0	mg/l	80-120	100			
Barium	"	1.0		1.1	"	80-120	110			
Cadmium	"	1.0		1.0	"	80-120	100			
Chromium	"	1.0		1.0	"	80-120	100			
Lead	"	1.0		1.1	"	80-120	110			
Selenium	"	1.0		1.0	"	80-120	100			
Silver	"	1.0		0.97	"	80-120	97			
LCS Dup										
10V8095-BS1										
Arsenic	10/7/98	1.0		1.0	mg/l	80-120	100	20	0	
Barium	"	1.0		1.0	"	80-120	100	30	9.5	
Cadmium	"	1.0		1.1	"	80-120	110	30	9.5	
Chromium	"	1.0		1.0	"	80-120	100	30	0	
Lead	"	1.0		1.0	"	80-120	100	30	9.5	
Selenium	"	1.0		0.95	"	80-120	95	30	5.1	
Silver	"	1.0		1.0	"	80-120	100	20	3.0	

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Delta Environmental
2340 Trinity Mills, Suite 230
Farrowllton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

Conventional Chemistry Parameters by APHA/EPA Methods/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 09V8382	Date Prepared: 9/25/98				Extraction Method: General Preparation					
Duplicate	09V8382-DUP1	8090264-04								
Reactivity	9/25/98		ND	ND	N/A					
Batch: 09V8389	Date Prepared: 9/28/98				Extraction Method: General Preparation					
Duplicate	09V8389-DUP1	8090291-17								
H	9/28/98		7.89	7.90	pH units			10.0	0.127	
Batch: 09V8416	Date Prepared: 9/29/98				Extraction Method: General Preparation					
Blank	09V8416-BLK1									
Petroleum Oil Hydrocarbons	9/29/98			ND	mg/l	1.0				
LCS	09V8416-BS1									
Petroleum Oil Hydrocarbons	9/29/98	8.0		7.8	mg/l	80-120	98			
LCS Dup	09V8416-BSD1									
Petroleum Oil Hydrocarbons	9/29/98	8.0		8.0	mg/l	80-120	100	30	2.0	
Batch: 09V8446	Date Prepared: 9/30/98				Extraction Method: General Preparation					
Blank	09V8446-BLK1									
Petroleum Oil Hydrocarbons	9/30/98			ND	mg/kg	5.0				
LCS	09V8446-BS1									
Petroleum Oil Hydrocarbons	9/30/98	200		170	mg/kg	80-120	85			
LCS Dup	09V8446-BSD1									
Petroleum Oil Hydrocarbons	9/30/98	200		170	mg/kg	80-120	85	30	0	
Matrix Spike	09V8446-MS1	8090291-03								
Petroleum Oil Hydrocarbons	9/30/98	200	ND	180	mg/kg	80-120	90			
Matrix Spike Dup	09V8446-MSD1	8090291-03								
Petroleum Oil Hydrocarbons	9/30/98	200	ND	170	mg/kg	80-120	85	30	5.7	
Batch: 10V8117	Date Prepared: 10/1/98				Extraction Method: General Preparation					
Blank	10V8117-BLK1									
Total Dissolved Solids	10/1/98			10	mg/l	10				
Duplicate	10V8117-DUP1	8090291-19								
Total Dissolved Solids	10/1/98		4600	4400	mg/l			17	4.4	

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Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

Physical Parameters by APHA/ASTM/EPA Methods/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. %	RPD Limit	RPD %	Notes*
Batch: 09V8425	Date Prepared: 9/29/98		Extraction Method: General Preparation						
Blank	09V8425-BLK1								
Reactive Cyanide	9/29/98			ND	mg/kg		250		
LCS	09V8425-BS1								
Reactive Cyanide	9/29/98			ND	mg/kg				
Duplicate	09V8425-DUP1		8090291-10						
Reactive Cyanide	9/29/98		ND	ND	mg/kg			20	
Batch: 09V8455	Date Prepared: 9/30/98		Extraction Method: General Preparation						
Blank	09V8455-BLK1								
Reactive Sulfide	9/30/98			ND	mg/kg		1.0		
Duplicate	09V8455-DUP1		8090291-10						
Reactive Sulfide	9/30/98		ND	ND	mg/kg			30	

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Delta Environmental
2340 Trinity Mills, Suite 230
Arlington, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

TCLP Volatile Organic Compounds by EPA Method 1311/8260/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 10V8021										
Blank										
Date Prepared: 10/1/98			Extraction Method: EPA 5030							
10V8021-BLK1										
Benzene	10/1/98			ND	mg/l	0.0200				
Butanone	"			ND	"	0.100				
Carbon tetrachloride	"			ND	"	0.0200				
Chlorobenzene	"			ND	"	0.0200				
Chloroform	"			ND	"	0.0200				
1,2-Dichloroethane	"			ND	"	0.0200				
1,1-Dichloroethene	"			ND	"	0.0200				
Tetrachloroethene	"			ND	"	0.0200				
Trichloroethene	"			ND	"	0.0200				
Vinyl chloride	"			ND	"	0.0200				
Surrogate: DBFM	"	0.0500		0.0507	"	86.0-118	101			
Surrogate: Toluene-d8	"	0.0500		0.0508	"	88.0-110	102			
Surrogate: 4-BFB	"	0.0500		0.0488	"	86.0-115	97.6			
LCS										
10V8021-BS1										
Benzene	10/1/98	0.0500		0.0539	mg/l	76.0-127	108			
Chlorobenzene	"	0.0500		0.0609	"	75.0-130	122			
1,1-Dichloroethene	"	0.0500		0.0409	"	57.0-145	81.8			
Trichloroethene	"	0.0500		0.0552	"	71.0-140	110			
Surrogate: DBFM	"	0.0500		0.0512	"	86.0-118	102			
Surrogate: Toluene-d8	"	0.0500		0.0502	"	88.0-110	100			
Surrogate: 4-BFB	"	0.0500		0.0506	"	86.0-115	101			
CS Dup										
10V8021-BSD1										
Benzene	10/1/98	0.0500		0.0531	mg/l	76.0-127	106	15.0	1.87	
Chlorobenzene	"	0.0500		0.0605	"	75.0-130	121	15.0	0.823	
1,1-Dichloroethene	"	0.0500		0.0406	"	58.0-145	81.2	15.0	0.736	
Trichloroethene	"	0.0500		0.0558	"	71.0-127	112	15.0	1.80	
Surrogate: DBFM	"	0.0500		0.0508	"	86.0-118	102			
Surrogate: Toluene-d8	"	0.0500		0.0501	"	88.0-110	100			
Surrogate: 4-BFB	"	0.0500		0.0497	"	86.0-115	99.4			

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Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

TCLP Semivolatiles by EPA Method 1311/8270/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recovery %	RPD Limit	RPD %	Notes*
Batch: 10V8040									
Blank									
Date Prepared: 10/1/98									
Extraction Method: EPA 3550									
o-Cresol	10/2/98			ND	mg/l	0.00800			
m,p-Cresols	"			ND	"	0.00800			
1,4-Dichlorobenzene	"			ND	"	0.00800			
2,4-Dinitrotoluene	"			ND	"	0.00800			
Hexachlorobenzene	"			ND	"	0.00800			
Hexachlorobutadiene	"			ND	"	0.00800			
Hexachloroethane	"			ND	"	0.00800			
Nitrobenzene	"			ND	"	0.00800			
Pentachlorophenol	"			ND	"	0.0400			
Pyridine	"			ND	"	0.0400			
2,4,5-Trichlorophenol	"			ND	"	0.0400			
2,4,6-Trichlorophenol	"			ND	"	0.00800			
Surrogate: 2-FP	"	0.200		0.0745	"	43.0-116	37.3		9
Surrogate: Phenol-d6	"	0.200		0.0622	"	10.0-94.0	31.1		
Surrogate: 2,4,6-TBP	"	0.200		0.0891	"	10.0-123	44.6		
Surrogate: Nitrobenzene-d5	"	0.100		0.0357	"	35.0-114	35.7		
Surrogate: 2-FBP	"	0.100		0.0366	"	43.0-116	36.6		9
Surrogate: p-Terphenyl-d14	"	0.100		0.0908	"	33.0-141	90.8		
CS									
10V8040-BS1									
1,4-Dichlorobenzene	10/2/98	0.100		0.0503	mg/l	30.0-150	50.3		D
2,4-Dinitrotoluene	"	0.100		0.101	"	30.0-150	101		D
Pentachlorophenol	"	0.200		0.166	"	30.0-150	83.0		D
LCS Dup									
10V8040-BSD1									
1,4-Dichlorobenzene	10/2/98	0.100		0.0463	mg/l	30.0-150	46.3	50.0	8.28 D
2,4-Dinitrotoluene	"	0.100		0.102	"	30.0-150	102	50.0	0.985 D
Pentachlorophenol	"	0.200		0.164	"	30.0-150	82.0	50.0	1.21 D

Star Analytical, Inc.

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Delta Environmental
2340 Trinity Mills, Suite 230
Marrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

TCLP Metals by EPA 1311/6000/7000 Series Methods/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 10V8096										
Blank										
Date Prepared: 9/24/98			Extraction Method: General Preparation							
10V8096-BLK1										
Arsenic	10/7/98			ND	mg/l	0.200				
Barium	"			ND	"	0.100				
Cadmium	"			ND	"	0.0300				
Chromium	"			ND	"	0.0300				
Lead	"			ND	"	0.100				
Selenium	"			ND	"	0.200				
Silver	"			ND	"	0.0300				
Blank										
10V8096-BLK2										
Arsenic	10/7/98			ND	mg/l	0.200				
Barium	"			ND	"	0.230				
Cadmium	"			ND	"	0.0300				
Chromium	"			ND	"	0.0300				
Lead	"			ND	"	0.100				
Selenium	"			ND	"	0.200				
Silver	"			ND	"	0.0300				
LCS										
10V8096-BS1										
Arsenic	10/7/98	1.00		1.00	mg/l	50.0-150	100			
Barium	"	1.00		1.00	"	50.0-150	100			
Cadmium	"	1.00		1.00	"	50.0-150	100			
Chromium	"	1.00		1.00	"	50.0-150	100			
Lead	"	1.00		1.00	"	50.0-150	100			
Selenium	"	1.00		1.00	"	50.0-150	100			
Silver	"	1.00		0.950	"	50.0-150	95.0			
LCS										
10V8096-BS2										
Arsenic	10/7/98	1.00		0.950	mg/l	50.0-150	95.0			
Barium	"	1.00		1.25	"	50.0-150	125			
Cadmium	"	1.00		0.980	"	50.0-150	98.0			
Chromium	"	1.00		0.980	"	50.0-150	98.0			
Lead	"	1.00		0.950	"	50.0-150	95.0			
Selenium	"	1.00		0.940	"	50.0-150	94.0			
Silver	"	1.00		1.00	"	50.0-150	100			
LCS Dup										
10V8096-BSD1										
Arsenic	10/7/98	1.00		1.00	mg/l	50.0-150	100	30.0	0	
Barium	"	1.00		1.00	"	50.0-150	100	30.0	0	
Cadmium	"	1.00		1.00	"	50.0-150	100	30.0	0	
Chromium	"	1.00		1.00	"	50.0-150	100	30.0	0	

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Delta Environmental
2340 Trinity Mills, Suite 230
Marrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

TCLP Metals by EPA 1311/6000/7000 Series Methods/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
CS Dup (continued)										
10V8096-BSD1										
Lead	10/7/98	1.00		1.00	mg/l	50.0-150	100	30.0	0	
Selenium	"	1.00		1.00	"	50.0-150	100	30.0	0	
Silver	"	1.00		1.00	"	50.0-150	100	30.0	5.13	
LCS Dup										
10V8096-BSD2										
Arsenic	10/7/98	1.00		1.10	mg/l	50.0-150	110	30.0	14.6	
Barium	"	1.00		1.00	"	50.0-150	100	30.0	22.2	
Cadmium	"	1.00		1.26	"	50.0-150	126	30.0	25.0	
Chromium	"	1.00		1.00	"	50.0-150	100	30.0	2.02	
Lead	"	1.00		1.00	"	50.0-150	100	30.0	5.13	
Selenium	"	1.00		1.00	"	50.0-150	100	30.0	6.19	
Silver	"	1.00		0.980	"	50.0-150	98.0	30.0	2.02	

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Delta Environmental
2340 Trinity Mills, Suite 230
Carrollton, TX 75006

Project: Artesia
Project Number: F098-130
Project Manager: Destini Baldonado

Sampled: 9/23/98 to 9/24/98
Received: 9/26/98
Reported: 10/14/98 09:57

Notes and Definitions

Note

0 Data reported from a dilution.

1 Diesel

Surrogate recovery outside control limits due to interference from coeluting compounds within the sample matrix.

3 various hydrocarbons C4 to C30

Non-diesel hydrocarbons C12 to C24

5 Various peak >C22

Non-diesel hydrocarbons <C12

10X WAS NEEDED DUE TO MATRIX EFFECTS; 218-18 10X WAS ND AS WELL

8 Estimated value.

Method blank re-running for surr recovery

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

ry Sample results reported on a dry weight basis

Recov. Recovery

RPD Relative Percent Difference

Star Analytical, Inc.

Lari Hall, Project Manager

CLIENT NAME:

Delta Env.

WORK ORDER:

8090291

REC. BY (PRINT):

A. D. Day

DATE OF LOG-IN:

9/26/98

CIRCLE THE APPROPRIATE RESPONSE

1. Custody Seal(s) present?

Yes ☒ No ☐

2. Custody Seal #:

4/4040-23

3. Chain of Custody present?

Yes ☒ No ☐

4. Chain of Custody filled out properly?

Yes ☒ No ☐

5. Ice and packing material?

Yes ☒ No ☐

6. Correct containers used?

Yes ☒ No ☐

7. Containers intact?

Yes ☒ No ☐

8. Does information on custody reports, traffic reports and sample tags agree?

Yes ☒ No ☐

9. Headspace in VOA's?

Yes ☒ No ☐

10. Preserved properly?

Yes ☒ No ☐

11. Date Rec. at Lab:

9/26/98

12. Time Rec. at Lab:

10:30

13. Temp Rec. at Lab:

10°C (40°F)

2 copies Rev'd. ☒

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP	REMARKS: CONDITION (ETC.)
01	A	SO. TANK - SW	1-402	Soil	9/24/98	
02		SO. TANK - EW				
03		SO. TANK - NW				
04		SO. TANK - WW				
05		NO. TANK - SW				
06		NO. TANK - EW				
07		NO. TANK - NW				
08		NO. TANK - WW				
09		G.W. Composite			9/24/98	8090291-09A GW Composite 09/24/98 Water - 4oz Jar R7K NO TESTS Revised NO BOTTLES
10	A	Stockpile	1-402	Soil	9/24/98	
11	A-B	Sump	2-402	Soil	9/23/98	
12		Cont. - Pit				
13		Cont - 1				
14		Cont - 2				
15		Cont - 3				

Shipping Method (circle one):

CLIENT

AIRBORNE

FED EX

UPS

OTHER:

CLIENT NAME: DELTA EW.
REC. BY (PRINT): A. Dickey

WORK ORDER: 8090871
DATE OF LOG-IN: 9/26/98

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) present?	☒ Yes / ☐ No	16	A-B	CONT-4	2-402	soil	9/23/98	
2. Custody Seal #:	<u>9/04/98 AR.</u>	17	1	CONT-5	↓	↓	↓	
3. Chain of Custody present?	☒ Yes / ☐ No	18	↓	TRUCK	PLASTIC BOWL	WATER	9/24/98	- HPD 3 - H ₂ SO ₄
4. Chain of Custody filled out properly?	☒ Yes / ☐ No	19	A-F	PIT WATER	4-2045 1-ANALYTICAL 1-ANALYTICAL	↓	↓	- HCL - NO PICS - NO PICS
5. Ice and packing material?	☒ Yes / ☐ No							
5. Correct containers used?	☒ Yes / ☐ No							
7. Containers intact?	☒ Yes / ☐ No							
8. Does information on custody reports, traffic reports and sample tags agree?	☒ Yes / ☐ No							
9. Headspace in VOA's?	☒ Yes / ☐ No							
10. Preserved properly?	☒ Yes / ☐ No							
11. Date Rec. at Lab:	<u>9/26/98</u>							
12. Time Rec. at Lab:	<u>10:30</u>							
13. Temp Rec. at Lab:	<u>10°C (50°F)</u>							
<u>Stoolers New. PD</u>								



STAR ANALYTICAL

CHAIN-OF-CUSTODY FORM

14500 Trinity Boulevard, Suite 106
Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431

Company Name: <u>Delta Environmental Cons.</u>	Project Name: <u>Artesia</u>
Address: <u>2340 Trinity Mills Rd. Suite 230</u>	Billing Address (if different):
City: <u>Carrollton</u> State: <u>Tx</u> Zip Code: <u>75007</u>	
Telephone: <u>972/418-5311</u> FAX#: <u>972/418-5243</u>	P.O.#: <u>F098-130</u>
Report To: <u>Destini Ballarado</u> Sampler: <u>DB</u>	

Turnaround Time: ☐ 10 Working Days ☐ 4 Working Days ☐ 24 Hours
☐ 7 Working Days ☐ 3 Working Days ☐ 2 - 8 Hours
☐ 5 Working Days ☐ 2 Working Days

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Star's Sample #	Comments
1. So. Tank-SW	9/24/98 11:55	soil	1	glass	8090391-01	X
2. So. Tank-SW	12:00				8090391-02	X
3. So. Tank-MW	12:05				8090391-03	X
4. So. Tank-WW	12:10	soil	1	glass	8090391-04	X
5. No. Tank-SW	15:30				8090391-05	X
6. No. Tank-SW	15:35				8090391-06	X
7. No. Tank-SW	15:40				8090391-07	X
8. No. Tank-SW	15:45	soil	1	glass	8090391-08	X
9. G.W. Composite	9/24/98 15:55	water			8090391-09	
10. Stockpile	9/24/98 17:00	soil	1	glass	8090391-10	X

Relinquished By: <u>Destini Ballarado</u>	Date: <u>9/24/98</u> Time: <u>4:10pm</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Received By:	Date:	Time:
Relinquished By:	Date:	Received By: <u>Clayton</u>	Date: <u>9/26/98</u>	Time: <u>10:30</u>

Samples Received in Good Condition? ☐ Yes ☐ No
Samples Pre-Preserved? ☐ Yes ☐ No ☐ N/A
Samples Cold? ☐ Yes ☐ No
Custody Seal Intact? ☐ Yes ☐ No ☐ N/A
Method of Shipment: Fed. exp. Page 1 of 1

Pink - Client

Yellow - Star

White - Star



STAR ANALYTICAL

CHAIN-OF-CUSTODY FORM

14500 Trinity Boulevard, Suite 106
Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431

Company Name: <u>Delta Environmental</u>	Project Name: <u>5098-130 - Artesia</u>
Address: <u>2340 Trinity Mills Rd. Suite 230</u>	Billing Address (if different):
City: <u>Carrollton</u> State: <u>TX</u> Zip Code: <u>75007</u>	
Telephone: <u>972/418-5311</u> FAX#: <u>972/418-5243</u>	P.O.#: <u>5098-130</u>
Report To: <u>Destini Baldonado</u> Sampler: <u>DB</u>	

Turnaround Time: ☐ 10 Working Days ☒ 4 Working Days ☐ 24 Hours
☐ 7 Working Days ☐ 3 Working Days ☐ 2 - 8 Hours
☐ 5 Working Days ☐ 2 Working Days

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Star's Sample #	TPH-DRO	TPH-H-18	VOC	PCB-Metals	Comments
1. Sump	9/28/98 9:30	soil	2	glass	809071-11	X	X	X	X	
2. Cont.-Pit	9:45				809071-13	X	X	X	X	
3. Cont.-1	10:00				809071-13	X	X	X	X	
4. Cont.-2	10:20				809071-14	X	X	X	X	Highest TPH gets
5. Cont.-3	10:40				809071-15	X	X	X	X	VOC
6. Cont.-4	11:00				809071-16	X	X	X	X	
7. Cont.-5	9/28/98 11:20	soil	2	glass	809071-17	X	X	X	X	
8. Tank	9/24/98 9:45	water	2	glass/plastic	809071-18			X	X	
9. Pit water	9/24/98 12:00	water	in	glass	809071-19	X	X	X	X	Please filter for PCB metals
10.										

Relinquished By: <u>DBaldonado</u>	Date: <u>9/28/98</u>	Time: <u>9:40pm</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <u>Destini Baldonado</u>	Date: <u>9/24/98</u>	Time: <u>10:30</u>

Samples Received in Good Condition? ☒ Yes ☐ No
Samples Pre-Preserved? ☒ Yes ☐ No ☐ N/A

Samples Cold? ☒ Yes ☐ No
Custody Seal Intact? ☒ Yes ☐ No ☐ N/A

Method of Shipment Feet