

## ANALYTICAL REPORT

ENSR CONSULTING & ENGINEERING 4939

Lab Number: 01-A52452  
 Sample ID: DSN 001 GRAB  
 Sample Type: Water  
 Site ID:

2809 WEST MALL DRIVE  
 FLORENCE, AL 35630

Project: 4523-409  
 Project Name: BOEING  
 Sampler: C.LEDBETTER

Date Collected: 4/18/01  
 Time Collected: 12:15  
 Date Received: 4/20/01  
 Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
*EXTRACTABLE ORGANICS*										
Acenaphthene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Acenaphthylene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Anthracene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Benzidine	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Benzo(a)anthracene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Benzo(a)pyrene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Benzo(b)fluoranthene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Benzo(g,h,i)perylene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Benzo(k)fluoranthene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
4-Bromophenylphenylether	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Butylbenzylphthalate	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
4-Chloro-3-methylphenol	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
bis(2-Chloroethoxy)methane	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
bis(2-Chloroethyl)ether	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
bis(2-Chloroisopropyl)ether	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
2-Chloronaphthalene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
2-Chlorophenol	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
4-Chlorophenylphenylether	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Chrysene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Dibenz(a,h)anthracene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
1,2-Dichlorobenzene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
1,3-Dichlorobenzene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
1,4-Dichlorobenzene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295

Sample report continued . . .

## ANALYTICAL REPORT

Laboratory Number: 01-A52452  
 Sample ID: DSN 001 GRAB  
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Analyte	Result	Units	Report	Quan	Dil	Analysis		Analyst	Method	Batch
			Limit	Limit	Factor	Date	Time			
3,3'-Dichlorobenzidine	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
2,4-Dichlorophenol	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Diethylphthalate	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
2,4-Dimethylphenol	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Dimethylphthalate	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Di-n-butylphthalate	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
2,4-Dinitrophenol	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
2,4-dinitrotoluene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
2,6-Dinitrotoluene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Di-n-octylphthalate	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
1,2-Diphenylhydrazine	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Fluoranthene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Fluorene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Hexachlorobenzene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Hexachlorobutadiene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Hexachlorocyclopentadiene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Hexachloroethane	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Isophorone	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
2-Methyl-4,6-dinitrophenol	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Naphthalene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Nitrobenzene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
2-Nitrophenol	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
4-Nitrophenol	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
N-nitrosodi-n-propylamine	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
N-nitrosodiphenylamine	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
N-nitrosodimethylamine	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Pentachlorophenol	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Phenanthrene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Phenol	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Pyrene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
1,2,4-Trichlorobenzene	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295
1,4,6-Trichlorophenol	ND	ug/l	10.	10.	1	4/26/01	12:32	LMcDaniel	625	9295

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## ANALYTICAL REPORT

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Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
<b>*VOLATILE ORGANICS*</b>										
Acrolein	ND	ug/l	10.	10.	1	4/25/01	14:49	J. Coleman	624	5074
Acrylonitrile	ND	ug/l	10.	10.	1	4/25/01	14:49	J. Coleman	624	5074
Benzene	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
Bromoform	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
Bromomethane	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
Carbon tetrachloride	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
Chlorobenzene	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
Chloroethane	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
Chloroform	26.	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
Chloromethane	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
Dibromochloromethane	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
1,2-Dichlorobenzene	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
1,3-Dichlorobenzene	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
1,4-Dichlorobenzene	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
Dichlorodifluoromethane	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
1,1-Dichloroethane	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
1,2-Dichloroethane	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
1,1-Dichloroethene	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
1,2-Dichloroethene (total)	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
1,2-Dichloropropane	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
cis-1,3-Dichloropropene	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
trans-1,3-Dichloropropene	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
Ethylbenzene	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
Methylene chloride	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
1,1,1,2-Tetrachloroethane	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
Tetrachloroethene	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
Toluene	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
1,1,1-Trichloroethane	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
1,1,2-Trichloroethane	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
Trichloroethene	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
Vinyl chloride	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
Xylenes, Total	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
Bromodichloromethane	9.	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074

Sample report continued . . .

## ANALYTICAL REPORT

Laboratory Number: 01-A52452  
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Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	ug/l	5.	5.	1	4/25/01	14:49	J. Coleman	624	5074
*MISCELLANEOUS CHEMISTRY*										
Cyanide	ND	mg/l	0.005	0.005	1	4/21/01	1:00	Hardcastle	335.3	5319
Oil & Grease	ND	mg/l	0.9	0.9	1	4/23/01	9:35	D. Cooper	413.1	5581

ND - Not detected at the report limit.

### Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
625	990. ml	1. ml	4/20/01		D. Yeager	625

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	103.	52. - 119.
VOA Surrogate, Toluene d8	99.	79. - 107.
VOA Surrogate, 4-Bromofluorobenzene	97.	59. - 121.
VOA Surrogate, Dibromofluoromethane	110.	60. - 110.
surr-Nitrobenzene-d5	70.	16. - 120.
surr-2-Fluorobiphenyl	70.	10. - 136.
surr-Terphenyl d14	58.	10. - 119.
surr-Phenol d5	18.	10. - 69.
surr-2-Fluorophencl	30.	10. - 148.
surr-2,4,6-Tribromophencl	77.	11. - 142.

# - Recovery outside Laboratory historical limits.

Sample report continued . . .

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These results relate only to the items tested.  
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permission of the laboratory.

Report Approved By: \_\_\_\_\_

Report Date: 4/26/01

Paul E. Lane, Jr., Lab Director  
Michael H. Dunn, M.S., Technical Director  
Johnny A. Mitchell, Dir. Technical Serv.  
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.  
Glenn L. Norton, Technical Serv.  
Kelly S. Comstock, Technical Serv.  
Pamela A. Langford, Technical Serv.

End of Sample Report.

**PROJECT QUALITY CONTROL DATA**  
**Project Number: 4523-409**

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
**VOA PARAMETERS**								
Benzene	mg/l	< 0.0050	0.0520	0.0500	104	37. - 151.	5074	blank
Chlorobenzene	mg/l	< 0.0050	0.0516	0.0500	103	37. - 160.	5074	blank
1,1-Dichloroethene	mg/l	< 0.0050	0.0523	0.0500	105	10. - 234.	5074	blank
Toluene	mg/l	< 0.0050	0.0524	0.0500	105	47. - 150.	5074	blank
Trichloroethene	mg/l	< 0.0050	0.0509	0.0500	102	71. - 157.	5074	blank

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
**EXTRACTABLE PARAMETERS**								
Acenaphthene	mg/l	< 0.0100	0.0350	0.0500	70	47. - 145.	9295	01-A52889
4-Chloro-3-methylphenol	mg/l	< 0.0100	0.0280	0.0500	56	22. - 147.	9295	01-A52889
2-Chlorophenol	mg/l	< 0.0100	0.0240	0.0500	48	23. - 134.	9295	01-A52889
1,4-Dichlorobenzene	mg/l	< 0.0100	0.0280	0.0500	56	20. - 124.	9295	01-A52889
2,4-dinitrotoluene	mg/l	< 0.0100	0.0400	0.0500	80	39. - 139.	9295	01-A52889
4-Nitrophenol	mg/l	< 0.0100	0.0130	0.0500	26	10. - 132.	9295	01-A52889
N-nitrosodi-n-propylamine	mg/l	< 0.0100	0.0330	0.0500	66	10. - 230.	9295	01-A52889
Pentachlorophenol	mg/l	< 0.0100	0.0320	0.0500	64	14. - 176.	9295	01-A52889
Phenol	mg/l	< 0.0100	0.0100	0.0500	20	5. - 112.	9295	01-A52889
Pyrene	mg/l	< 0.0100	0.0320	0.0500	64	52. - 115.	9295	01-A52889
1,2,4-Trichlorobenzene	mg/l	< 0.0100	0.0290	0.0500	58	44. - 142.	9295	01-A52889

Project QC continued on next page

**PROJECT QUALITY CONTROL DATA**  
**Project Number: 4523-409**

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
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Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
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**\*\*METALS\*\***

Cadmium	mg/l	< 0.0010	0.0470	0.0500	94	80 - 120	5764	Duplicate
Chromium	mg/l	< 0.0050	0.2010	0.2000	100	80 - 120	5764	Duplicate
Copper	mg/l	0.0670	0.3240	0.2500	103	80 - 120	5764	Duplicate
Lead	mg/l	0.0780	0.1220	0.0500	88	80 - 120	5764	Duplicate
Molybdenum	mg/l	0.121	0.581	0.500	92	80 - 120	5764	Duplicate
Nickel	mg/l	< 0.0100	0.5060	0.5000	101	80 - 120	5764	Duplicate
Silver	mg/l	< 0.0050	0.0540	0.0500	108	80 - 120	5764	Duplicate
Zinc	mg/l	0.1220	0.6300	0.5000	102	80 - 120	5764	Duplicate

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
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**\*\*MISC PARAMETERS\*\***

Cyanide	mg/l	< 0.005	0.213	0.200	106	80 - 120	5319	G1-A52331
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Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
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**\*\*METALS\*\***

Cadmium	mg/l	0.0470	0.0460	2.15	20	5764
Chromium	mg/l	0.2010	0.1970	2.21	20	5764
Copper	mg/l	0.3240	0.3180	1.87	20	5764

Project QC continued on page 2

# Test America

INCORPORATED

## PROJECT QUALITY CONTROL DATA

Project Number: 4523-409

### Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Lead	mg/l	0.1220	0.1210	0.82	20	5764
Molybdenum	mg/l	0.581	0.581	0.00	20	5764
Nickel	mg/l	0.5060	0.4970	1.79	20	5764
Silver	mg/l	0.0540	0.0530	1.87	20	5764
Zinc	mg/l	0.6300	0.6200	1.60	20	5764

### Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
<b>**MISC PARAMETERS**</b>						
Cyanide	mg/l	0.213	0.220	3.23	20	5319

### Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
<b>**UST PARAMETERS**</b>						
Oil & Grease	mg/l	20.0	19.0	95	70 - 130	5581

### Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
<b>**VOA PARAMETERS**</b>						
Acrolein	mg/l	0.2500	0.3010	120	45 - 149	5074
Acrylonitrile	mg/l	0.2500	0.3090	124	57 - 140	5074
Benzene	mg/l	0.0500	0.0509	102	37 - 151	5074
Bromoform	mg/l	0.0500	0.0475	95	45 - 169	5074
Bromomethane	mg/l	0.0500	0.0581	116	17 - 240	5074
Carbon tetrachloride	mg/l	0.0500	0.0540	108	75 - 149	5074

Project QC continued...



**PROJECT QUALITY CONTROL DATA**  
**Project Number: 4523-409**

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Dimethylphthalate	mg/l	0.0500	0.0490	98	10 - 112	9295
Di-n-butylphthalate	mg/l	0.0500	0.0490	98	1 - 118	9295
2,4-Dinitrophenol	mg/l	0.0500	0.0410	82	10 - 191	9295
2,4-dinitrotoluene	mg/l	0.0500	0.0520	104	39 - 139	9295
2,6-Dinitrotoluene	mg/l	0.0500	0.0500	100	50 - 158	9295
Di-n-octylphthalate	mg/l	0.0500	0.0630	126	4 - 146	9295
1,2-Diphenylhydrazine	mg/l	0.0500	0.0480	96	35 - 120	9295
Fluoranthene	mg/l	0.0500	0.0470	94	26 - 137	9295
Fluorene	mg/l	0.0500	0.0470	94	59 - 121	9295
Hexachlorobenzene	mg/l	0.0500	0.0510	102	10 - 152	9295
Hexachlorobutadiene	mg/l	0.0500	0.0540	108	24 - 116	9295
Hexachlorocyclopentadiene	mg/l	0.0500	0.0560	112	33 - 127	9295
Hexachloroethane	mg/l	0.0500	0.0510	102	40 - 113	9295
Indeno(1,2,3-cd)pyrene	mg/l	0.0500	0.0460	92	10 - 171	9295
Isophorone	mg/l	0.0500	0.0490	98	21 - 196	9295
2-Methyl-4,6-dinitrophenol	mg/l	0.0500	0.0470	94	10 - 181	9295
Naphthalene	mg/l	0.0500	0.0470	94	21 - 133	9295
Nitrobenzene	mg/l	0.0500	0.0520	104	35 - 180	9295
2-Nitrophenol	mg/l	0.0500	0.0500	100	29 - 182	9295
4-Nitrophenol	mg/l	0.0500	0.0590	118	10 - 132	9295
N-nitrosodi-n-propylamine	mg/l	0.0500	0.0480	96	10 - 230	9295
N-nitrosodiphenylamine	mg/l	0.0500	0.0460	92	39 - 118	9295
N-nitrosodimethylamine	mg/l	0.0500	0.0440	88	25 - 114	9295
Pentachlorophenol	mg/l	0.0500	0.0500	100	14 - 176	9295
Phenanthrene	mg/l	0.0500	0.0460	92	54 - 120	9295
Phenol	mg/l	0.0500	0.0500	100	5 - 112	9295
Pyrene	mg/l	0.0500	0.0470	94	52 - 115	9295
Bis(2-ethylhexyl)phthalate	mg/l	0.0500	0.0540	108	8 - 158	9295
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0490	98	44 - 142	9295
2,4,6-Trichlorophenol	mg/l	0.0500	0.0500	100	37 - 144	9295

Project QI continued on next page

**PROJECT QUALITY CONTROL DATA**  
**Project Number: 4523-409**

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
**METALS**						
Cadmium	mg/l	0.0500	0.0450	90	85 - 115	5764
Chromium	mg/l	0.2000	0.1860	93	85 - 115	5764
Copper	mg/l	0.2500	0.2420	97	85 - 115	5764
Lead	mg/l	0.0500	0.0440	88	85 - 115	5764
Molybdenum	mg/l	0.500	0.429	86	85 - 115	5764
Nickel	mg/l	0.5000	0.4760	95	85 - 115	5764
Silver	mg/l	0.0500	0.0520	104	85 - 115	5764
Zinc	mg/l	0.5000	0.4990	100	85 - 115	5764

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
**MISC PARAMETERS**						
BOD 5 Day	mg/l	198.	200.	101	85 - 115	5382
Cyanide	mg/l	0.100	0.100	100	90 - 110	5319
Duplicates						

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
BOD 5 Day	mg/l	65.7	68.0	3.44	15.	5382	01-A52792
BOD 5 Day	mg/l	247.	233.	5.83	15.	5382	01-A52537
Cyanide	mg/l	< 0.005	< 0.005	N/A	15.	5319	01-A52452
Total Suspended Solids	mg/l	3880	3900	0.51	15.	5514	01-A51342
Total Suspended Solids	mg/l	7.6	6.2	20.29 #	15.	5514	01-A52451

Project QC continued . . .

# Test America

INCORPORATED

## PROJECT QUALITY CONTROL DATA

Project Number: 4523-409

### Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
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### Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
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### \*\*VOA PARAMETERS\*\*

Acrolein	< 0.0100	mg/l	5074	4/25/01	12:22
Acrylonitrile	< 0.0100	mg/l	5074	4/25/01	12:22
Benzene	< 0.0050	mg/l	5074	4/25/01	12:22
Bromoform	< 0.0050	mg/l	5074	4/25/01	12:22
Bromomethane	< 0.0050	mg/l	5074	4/25/01	12:22
Carbon tetrachloride	< 0.0050	mg/l	5074	4/25/01	12:22
Chlorobenzene	< 0.0050	mg/l	5074	4/25/01	12:22
Chloroethane	< 0.0050	mg/l	5074	4/25/01	12:22
Chloroform	< 0.0050	mg/l	5074	4/25/01	12:22
Chloromethane	< 0.0050	mg/l	5074	4/25/01	12:22
Dibromochloromethane	< 0.0050	mg/l	5074	4/25/01	12:22
1,2-Dichlorobenzene	< 0.0050	mg/l	5074	4/25/01	12:22
1,3-Dichlorobenzene	< 0.0050	mg/l	5074	4/25/01	12:22
1,4-Dichlorobenzene	< 0.0050	mg/l	5074	4/25/01	12:22
Dichlorodifluoromethane	< 0.0050	mg/l	5074	4/25/01	12:22
1,1-Dichloroethane	< 0.0050	mg/l	5074	4/25/01	12:22
1,2-Dichloroethane	< 0.0050	mg/l	5074	4/25/01	12:22
1,1-Dichloroethene	< 0.0050	mg/l	5074	4/25/01	12:22
1,2-Dichloroethene (total)	< 0.0050	mg/l	5074	4/25/01	12:22
1,2-Dichloropropane	< 0.0050	mg/l	5074	4/25/01	12:22
cis-1,3-Dichloropropene	< 0.0050	mg/l	5074	4/25/01	12:22
trans-1,3-Dichloropropene	< 0.0050	mg/l	5074	4/25/01	12:22
Ethylbenzene	< 0.0050	mg/l	5074	4/25/01	12:22
Methylene chloride	< 0.0050	mg/l	5074	4/25/01	12:22
1,1,1,2-Tetrachloroethane	< 0.0050	mg/l	5074	4/25/01	12:22
Tetrachloroethene	< 0.0050	mg/l	5074	4/25/01	12:22
Toluene	< 0.0050	mg/l	5074	4/25/01	12:22

Project GC continued . . .

## ANALYTICAL REPORT

HAAS CORPORATION 3641  
 JOHN WADDELL  
 P.O. BOX 517  
 TRINITY, AL 35673

Lab Number: 02-A198930  
 Sample ID: DSN-001  
 Sample Type: Water  
 Site ID:

Project:  
 Project Name: BOEING  
 Sampler: ADEM

Date Collected: 12/ 4/02  
 Time Collected: 10:50  
 Date Received: 12/ 5/02  
 Time Received: 9:00  
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis		Analyst	Method	Batch
					Date	Time			
BOD Set Up					12/ 5/02	23:00			
BOD 5 Day	75.5	mg/l	5.00		12/10/02	22:00	J. Hill	405.1	8189
*EXTRACTABLE ORGANICS*									
Acenaphthene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Acenaphthylene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Anthracene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Benizidine	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Benzo(a)anthracene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Benzo(a)pyrene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Benzo(b)fluoranthene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Benzo(g,h,i)perylene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Benzo(k)fluoranthene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
4-Bromophenylphenylether	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Butylbenzylphthalate	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
4-Chloro-3-methylphenol	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
bis(2-Chloroethoxy)methane	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
bis(2-Chloroethyl)ether	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
bis(2-Chloroisopropyl)ether	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
2-Chloronaphthalene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
2-Chlorophenol	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
4-Chlorophenylphenylether	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Chrysene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Dibenz(a,h)anthracene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451

Sample report continued . . .

**PROJECT QUALITY CONTROL DATA**  
**Project Number: 4523-409**

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,1,1-Trichloroethane	< 0.0050	mg/l	5074	4/25/01	12:22
1,1,2-Trichloroethane	< 0.0050	mg/l	5074	4/25/01	12:22
Trichloroethene	< 0.0050	mg/l	5074	4/25/01	12:22
Vinyl chloride	< 0.0050	mg/l	5074	4/25/01	12:22
Xylenes, Total	< 0.0050	mg/l	5074	4/25/01	12:22
Bromodichloromethane	< 0.0050	mg/l	5074	4/25/01	12:22
Trichlorofluoromethane	< 0.0050	mg/l	5074	4/25/01	12:22
VOA Surrogate, 1,2-Dichloroethane, d4102.	102.	% Rec	5074	4/25/01	12:22
VOA Surrogate, Toluene d8	95.	% Rec	5074	4/25/01	12:22
VOA Surrogate, 4-Bromofluorobenzene	106.	% Rec	5074	4/25/01	12:22
VOA Surrogate, Dibromofluoromethane		% Rec	5074	4/25/01	12:22

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
**EXTRACTABLE PARAMETERS**					
Acenaphthene	< 0.0100	mg/l	9295	4/23/01	16:47
Acenaphthylene	< 0.0100	mg/l	9295	4/23/01	16:47
Anthracene	< 0.0100	mg/l	9295	4/23/01	16:47
Benzidine	< 0.0100	mg/l	9295	4/23/01	16:47
Benzo(a)anthracene	< 0.0100	mg/l	9295	4/23/01	16:47
Benzo(a)pyrene	< 0.0100	mg/l	9295	4/23/01	16:47
Benzo(b)fluoranthene	< 0.0100	mg/l	9295	4/23/01	16:47
Benzo(g,h,i)perylene	< 0.0100	mg/l	9295	4/23/01	16:47
Benzo(k)fluoranthene	< 0.0100	mg/l	9295	4/23/01	16:47
4-Bromophenylphenylether	< 0.0100	mg/l	9295	4/23/01	16:47
Butylbenzylphthalate	< 0.0100	mg/l	9295	4/23/01	16:47
4-Chloro-3-methylphenol	< 0.0100	mg/l	9295	4/23/01	16:47
bis(2-Chloroethoxy)methane	< 0.0100	mg/l	9295	4/23/01	16:47
bis(2-Chloroethyl)ether	< 0.0100	mg/l	9295	4/23/01	16:47
bis(2-Chloroisopropyl)ether	< 0.0100	mg/l	9295	4/23/01	16:47
1-Chloronaphthalene	< 0.0100	mg/l	9295	4/23/01	16:47

Project QC continued . . .

## ANALYTICAL REPORT

Laboratory Number: 02-A198930  
 Sample ID: DSN-001  
 Project:  
 Page 2

Analyte	Result	Units	Report	Dil	Analysis	Analysis	Analyst	Method	Batch
			Limit	Factor	Date	Time			
1,2-Dichlorobenzene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
1,3-Dichlorobenzene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
1,4-Dichlorobenzene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
3,3'-Dichlorobenzidine	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
2,4-Dichlorophenol	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Diethylphthalate	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
2,4-Dimethylphenol	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Dimethylphthalate	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Di-n-butylphthalate	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
2,4-Dinitrophenol	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
2,4-dinitrotoluene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
2,6-Dinitrotoluene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Di-n-octylphthalate	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
1,2-Diphenylhydrazine	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Fluoranthene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Fluorene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Hexachlorobenzene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Hexachlorobutadiene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Hexachlorocyclopentadiene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Hexachloroethane	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Isophorone	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
2-Methyl-4,6-dinitrophenol	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Naphthalene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Nitrobenzene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
2-Nitrophenol	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
4-Nitrophenol	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
N-nitrosodi-n-propylamine	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
N-nitrosodiphenylamine	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
N-nitrosodimethylamine	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Pentachlorophenol	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Phenanthrene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Phenol	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Pyrene	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.0	1	12/11/02	18:39	M.Schott	625	451

Sample report continued . . .



## ANALYTICAL REPORT

Laboratory Number: 02-A198930  
 Sample ID: DSN-001  
 Project:  
 Page 4

Analyte	Result	Units	Report	Dil	Analysis		Analyst	Method	Batch
			Limit	Factor	Date	Time			
Xylenes (Total)	2.4	ug/l	1.0	1	12/ 8/02	4:44	L. Lowery	624	1399
Bromodichloromethane	2.1	ug/l	1.0	1	12/ 8/02	4:44	L. Lowery	624	1399
Trichlorofluoromethane	ND	ug/l	1.0	1	12/ 8/02	4:44	L. Lowery	624	1399
<b>*METALS*</b>									
Cadmium	ND	ug/l	1.0	1	12/ 6/02	15:04	G. McCord	200.7	8532
Chromium	ND	ug/l	5.0	1	12/ 6/02	15:04	G. McCord	200.7	8532
Copper	31.0	ug/l	10.0	1	12/ 6/02	15:04	G. McCord	200.7	8532
Lead	14.0	ug/l	3.0	1	12/ 6/02	15:04	G. McCord	200.7	8532
Molybdenum	150.	ug/l	50.0	1	12/ 6/02	15:04	G. McCord	200.7	8532
Nickel	ND	ug/l	10.0	1	12/ 6/02	15:04	G. McCord	200.7	8532
Silver	ND	ug/l	5.0	1	12/ 6/02	15:04	G. McCord	200.7	8532
Zinc	194.	ug/l	20.0	1	12/ 6/02	15:04	G. McCord	200.7	8532
<b>*MISCELLANEOUS CHEMISTRY*</b>									
Cyanide	ND	mg/l	0.0050	1	12/11/02	0:30	S. Prayter	335.3	1947
Total Suspended Solids	51.1	mg/l	5.26	5.3	12/ 6/02	1:35	B. Yanna	160.2	8402
Oil & Grease	ND	mg/l	0.890	1	12/11/02	8:00	M. Ricke	413.1	8825

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
625	960. ml	1. ml	12/ 6/02		M. Cauthen	625

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	109.	84. - 129.
VOA Surrogate, Toluene d8	106.	85. - 122.
VOA Surrogate, 4-Bromofluorobenzene	102.	81. - 126.

Sample report continued . . .



## ANALYTICAL REPORT

Laboratory Number: 02-A198930  
 Sample ID: DSN-001  
 Project:  
 Page 5

Surrogate -----	% Recovery -----	Target Range -----
VOA Surrogate, Dibromofluoromethane	109.	87. - 128.
surr-Nitrobenzene-d5	66.	49. - 117.
surr-2-Fluorobiphenyl	79.	47. - 112.
surr-Terphenyl d14	68.	49. - 125.
surr-Phenol d5	18.	1. - 76.
surr-2-Fluorophenol	7.	1. - 103.
surr-2,4,6-Tribromophenol	28. #	37. - 161.

### LABORATORY COMMENTS:

- ND = Not detected at the report limit.
- B = Analyte was detected in the method blank.
- J = Estimated Value below Report Limit.
- E = Estimated value above the calibration limit of the instrument.
- # = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

**PROJECT QUALITY CONTROL DATA**  
**Project Number: 4523-409**

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Chlorobenzene	mg/l	0.0500	0.0509	102	37 - 160	5074
Chloroethane	mg/l	0.0500	0.0643	129	14 - 230	5074
Chloroform	mg/l	0.0500	0.0458	92	51 - 138	5074
Chloromethane	mg/l	0.0500	0.0669	134	10 - 273	5074
Dibromochloromethane	mg/l	0.0500	0.0477	95	53 - 149	5074
1,2-Dichlorobenzene	mg/l	0.0500	0.0519	104	18 - 190	5074
1,3-Dichlorobenzene	mg/l	0.0500	0.0518	104	59 - 156	5074
1,4-Dichlorobenzene	mg/l	0.0500	0.0514	103	18 - 190	5074
Dichlorodifluoromethane	mg/l	0.0500	0.0675	135	48 - 143	5074
1,1-Dichloroethane	mg/l	0.0500	0.0483	97	59 - 155	5074
1,2-Dichloroethane	mg/l	0.0500	0.0528	106	49 - 155	5074
1,1-Dichloroethene	mg/l	0.0500	0.0530	106	10 - 234	5074
1,2-Dichloroethene (total)	mg/l	0.1000	0.0974	97	54 - 156	5074
1,2-Dichloropropane	mg/l	0.0500	0.0526	105	10 - 210	5074
cis-1,3-Dichloropropene	mg/l	0.0500	0.0483	97	10 - 227	5074
trans-1,3-Dichloropropene	mg/l	0.0500	0.0493	99	17 - 183	5074
Ethylbenzene	mg/l	0.0500	0.0510	102	37 - 162	5074
Methylene chloride	mg/l	0.0500	0.0525	105	10 - 221	5074
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0487	97	46 - 157	5074
Tetrachloroethene	mg/l	0.0500	0.0496	99	64 - 148	5074
Toluene	mg/l	0.0500	0.0518	104	47 - 150	5074
1,1,1-Trichloroethane	mg/l	0.0500	0.0500	100	52 - 162	5074
1,1,2-Trichloroethane	mg/l	0.0500	0.0495	99	52 - 150	5074
Trichloroethene	mg/l	0.0500	0.0483	97	71 - 157	5074
Vinyl chloride	mg/l	0.0500	0.0656	131	10 - 251	5074
Xylenes, Total	mg/l	0.1500	0.1548	103	80 - 122	5074
Bromodichloromethane	mg/l	0.0500	0.0521	104	35 - 155	5074
Trichlorofluoromethane	mg/l	0.0500	0.0671	134	17 - 181	5074

Project QC continued on next page

# Test America

INCORPORATED

**PROJECT QUALITY CONTROL DATA**  
**Project Number: 4523-409**

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
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**\*\*EXTRACTABLE PARAMETERS\*\***

Acenaphthene	mg/l	0.0500	0.0480	96	47 - 145	9295
Acenaphthylene	mg/l	0.0500	0.0480	96	33 - 145	9295
Anthracene	mg/l	0.0500	0.0470	94	27 - 133	9295
Benzidine	mg/l	0.0500	0.0150	30	-	9295
Benzo(a)anthracene	mg/l	0.0500	0.0470	94	33 - 143	9295
Benzo(a)pyrene	mg/l	0.0500	0.0490	98	17 - 163	9295
Benzo(b)fluoranthene	mg/l	0.0500	0.0480	96	24 - 159	9295
Benzo(g,h,i)perylene	mg/l	0.0500	0.0430	86	10 - 219	9295
Benzo(k)fluoranthene	mg/l	0.0500	0.0500	100	11 - 162	9295
4-Bromophenylphenylether	mg/l	0.0500	0.0490	98	53 - 127	9295
Butylbenzylphthalate	mg/l	0.0500	0.0510	102	10 - 152	9295
4-Chloro-3-methylphenol	mg/l	0.0500	0.0530	106	22 - 147	9295
bis(2-Chloroethoxy)methane	mg/l	0.0500	0.0480	96	33 - 184	9295
bis(2-Chloroethyl)ether	mg/l	0.0500	0.0490	98	12 - 158	9295
bis(2-Chloroisopropyl)ether	mg/l	0.0500	0.0500	100	36 - 166	9295
2-Chloronaphthalene	mg/l	0.0500	0.0470	94	60 - 118	9295
2-Chlorophenol	mg/l	0.0500	0.0500	100	23 - 134	9295
4-Chlorophenylphenylether	mg/l	0.0500	0.0470	94	25 - 158	9295
Chrysene	mg/l	0.0500	0.0480	96	17 - 168	9295
Dibenz(a,h)anthracene	mg/l	0.0500	0.0460	92	10 - 227	9295
1,2-Dichlorobenzene	mg/l	0.0500	0.0500	100	32 - 129	9295
1,3-Dichlorobenzene	mg/l	0.0500	0.0490	98	10 - 172	9295
1,4-Dichlorobenzene	mg/l	0.0500	0.0480	96	20 - 124	9295
3,3'-Dichlorobenzidine	mg/l	0.0500	0.0530	106	10 - 262	9295
2,4-Dichlorophenol	mg/l	0.0500	0.0500	100	39 - 135	9295
Diethylphthalate	mg/l	0.0500	0.0490	98	10 - 114	9295
2,4-Dimethylphenol	mg/l	0.0500	0.0520	104	32 - 119	9295

Project QC continued on page 2

**PROJECT QUALITY CONTROL DATA**  
**Project Number: 4523-409**

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
2-Chlorophenol	< 0.0100	mg/l	9295	4/23/01	16:47
4-Chlorophenylphenylether	< 0.0100	mg/l	9295	4/23/01	16:47
Chrysene	< 0.0100	mg/l	9295	4/23/01	16:47
Dibenz(a,h)anthracene	< 0.0100	mg/l	9295	4/23/01	16:47
1,2-Dichlorobenzene	< 0.0100	mg/l	9295	4/23/01	16:47
1,3-Dichlorobenzene	< 0.0100	mg/l	9295	4/23/01	16:47
1,4-Dichlorobenzene	< 0.0100	mg/l	9295	4/23/01	16:47
3,3'-Dichlorobenzidine	< 0.0100	mg/l	9295	4/23/01	16:47
2,4-Dichlorophenol	< 0.0100	mg/l	9295	4/23/01	16:47
Diethylphthalate	< 0.0100	mg/l	9295	4/23/01	16:47
2,4-Dimethylphenol	< 0.0100	mg/l	9295	4/23/01	16:47
Dimethylphthalate	< 0.0100	mg/l	9295	4/23/01	16:47
Di-n-butylphthalate	< 0.0100	mg/l	9295	4/23/01	16:47
2,4-Dinitrophenol	< 0.0100	mg/l	9295	4/23/01	16:47
2,4-dinitrotoluene	< 0.0100	mg/l	9295	4/23/01	16:47
2,6-Dinitrotoluene	< 0.0100	mg/l	9295	4/23/01	16:47
Di-n-octylphthalate	< 0.0100	mg/l	9295	4/23/01	16:47
1,2-Diphenylhydrazine	< 0.0100	mg/l	9295	4/23/01	16:47
Fluoranthene	< 0.0100	mg/l	9295	4/23/01	16:47
Fluorene	< 0.0100	mg/l	9295	4/23/01	16:47
Hexachlorobenzene	< 0.0100	mg/l	9295	4/23/01	16:47
Hexachlorobutadiene	< 0.0100	mg/l	9295	4/23/01	16:47
Hexachlorocyclopentadiene	< 0.0100	mg/l	9295	4/23/01	16:47
Hexachloroethane	< 0.0100	mg/l	9295	4/23/01	16:47
Indeno(1,2,3-cd)pyrene	< 0.0100	mg/l	9295	4/23/01	16:47
Isophorone	< 0.0100	mg/l	9295	4/23/01	16:47
2-Methyl-4,6-dinitrophenol	< 0.0100	mg/l	9295	4/23/01	16:47
Naphthalene	< 0.0100	mg/l	9295	4/23/01	16:47
Nitrobenzene	< 0.0100	mg/l	9295	4/23/01	16:47
2-Nitrophenol	< 0.0100	mg/l	9295	4/23/01	16:47
4-Nitrophenol	< 0.0100	mg/l	9295	4/23/01	16:47
N-nitrosodi-n-propylamine	< 0.0100	mg/l	9295	4/23/01	16:47
N-nitrosodiphenylamine	< 0.0100	mg/l	9295	4/23/01	16:47
N-nitrosodimethylamine	< 0.0100	mg/l	9295	4/23/01	16:47

Project QC continued...

**PROJECT QUALITY CONTROL DATA**  
**Project Number: 4523-409**

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Pentachlorophenol	< 0.0100	mg/l	9295	4/23/01	16:47
Phenanthrene	< 0.0100	mg/l	9295	4/23/01	16:47
Phenol	< 0.0100	mg/l	9295	4/23/01	16:47
Pyrene	< 0.0100	mg/l	9295	4/23/01	16:47
Bis(2-ethylhexyl)phthalate	< 0.0100	mg/l	9295	4/23/01	16:47
1,2,4-Trichlorobenzene	< 0.0100	mg/l	9295	4/23/01	16:47
2,4,6-Trichlorophenol	< 0.0100	mg/l	9295	4/23/01	16:47

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
**METALS**					
Cadmium	< 0.0010	mg/l	5764	4/23/01	12:01
Chromium	< 0.0050	mg/l	5764	4/23/01	12:01
Copper	< 0.0100	mg/l	5764	4/23/01	12:01
Lead	< 0.0030	mg/l	5764	4/23/01	12:01
Molybdenum	< 0.050	mg/l	5764	4/23/01	12:01
Nickel	< 0.0100	mg/l	5764	4/23/01	12:01
Silver	< 0.0050	mg/l	5764	4/23/01	12:01
Zinc	< 0.0200	mg/l	5764	4/23/01	12:01

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
**MISC PARAMETERS**					
Cyanide	< 0.005	mg/l	5319	4/21/01	1:00
Total Suspended Solids	< 1.0	mg/l	5514	4/23/01	18:40
Total Suspended Solids	< 1.0	mg/l	5514	4/20/01	18:40

# - Value outside Laboratory historical QC limits.  
 End of Report for Project 23443r

**PROJECT QUALITY CONTROL DATA**  
**Project Number:**  
**Project Name: BOEING**  
**Page: 1**  
**Laboratory Receipt Date: 12/ 5/02**

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
**VOA PARAMETERS**								
Benzene	mg/l	< 0.00100	0.0527	0.0500	105	37. - 151.	1399	02-A198930
Chlorobenzene	mg/l	< 0.00100	0.0515	0.0500	103	37. - 160.	1399	02-A198930
1,1-Dichloroethene	mg/l	< 0.00100	0.0603	0.0500	121	1. - 234.	1399	02-A198930
Toluene	mg/l	< 0.00100	0.0537	0.0500	107	47. - 150.	1399	02-A198930
Trichloroethene	mg/l	< 0.00100	0.0625	0.0500	125	71. - 157.	1399	02-A198930

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
**EXTRACTABLE PARAMETERS**								
Acenaphthene	mg/l	< 0.0100	0.0370	0.0500	74	47. - 145.	451	BLANK
Acenaphthylene	mg/l	< 0.0100	0.0430	0.0500	86	33. - 145.	451	BLANK
Anthracene	mg/l	< 0.0100	0.0450	0.0500	90	27. - 133.	451	BLANK
Benzidine	mg/l	< 0.0100	0.0230	0.0500	46	1. - 98.	451	BLANK
Benzo(a)anthracene	mg/l	< 0.0100	0.0490	0.0500	98	33. - 143.	451	BLANK
Benzo(a)pyrene	mg/l	< 0.0100	0.0500	0.0500	100	17. - 163.	451	BLANK
Benzo(b)fluoranthene	mg/l	< 0.0100	0.0540	0.0500	108	24. - 159.	451	BLANK
Benzo(g,h,i)perylene	mg/l	< 0.0100	0.0320	0.0500	64	1. - 219.	451	BLANK
Benzo(k)fluoranthene	mg/l	< 0.0100	0.0650	0.0500	130	11. - 162.	451	BLANK
4-Bromophenylphenylether	mg/l	< 0.0100	0.0500	0.0500	100	53. - 127.	451	BLANK
Butylbenzylphthalate	mg/l	< 0.0100	0.0420	0.0500	84	1. - 152.	451	BLANK
4-Chloro-3-methylphenol	mg/l	< 0.0100	0.0430	0.0500	86	22. - 147.	451	BLANK
bis(2-Chloroethoxy)methane	mg/l	< 0.0100	0.0380	0.0500	76	33. - 184.	451	BLANK

Project QC continued . . .



**PROJECT QUALITY CONTROL DATA**

**Project Number:**

**Project Name: BOEING**

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**Laboratory Receipt Date: 12/ 5/02**

**Matrix Spike Recovery**

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
Naphthalene	mg/l	< 0.0100	0.0420	0.0500	84	21. - 133.	451	BLANK
Nitrobenzene	mg/l	< 0.0100	0.0400	0.0500	80	35. - 180.	451	BLANK
2-Nitrophenol	mg/l	< 0.0100	0.0280	0.0500	56	29. - 182.	451	BLANK
4-Nitrophenol	mg/l	< 0.0100	0.0140	0.0500	28	1. - 132.	451	BLANK
N-nitrosodi-n-propylamine	mg/l	< 0.0100	0.0350	0.0500	70	1. - 230.	451	BLANK
N-nitrosodiphenylamine	mg/l	< 0.0100	0.0460	0.0500	92	36. - 125.	451	BLANK
N-nitrosodimethylamine	mg/l	< 0.0100	0.0270	0.0500	54	17. - 79.	451	BLANK
Pentachlorophenol	mg/l	< 0.0100	0.0260	0.0500	52	14. - 176.	451	BLANK
Phenanthrene	mg/l	< 0.0100	0.0440	0.0500	88	54. - 120.	451	BLANK
Phenol	mg/l	< 0.0100	0.0180	0.0500	36	5. - 112.	451	BLANK
Pyrene	mg/l	< 0.0100	0.0500	0.0500	100	52. - 115.	451	BLANK
Bis(2-ethylhexyl)phthalate	mg/l	< 0.0100	0.0500	0.0500	100	8. - 158.	451	BLANK
1,2,4-Trichlorobenzene	mg/l	< 0.0100	0.0380	0.0500	76	44. - 142.	451	BLANK
2,4,6-Trichlorophenol	mg/l	< 0.0100	0.0260	0.0500	52	37. - 144.	451	BLANK

**Matrix Spike Recovery**

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
**METALS**								
Cadmium	mg/l	< 0.0010	0.0490	0.0500	98	80 - 120	8532	Duplicate
Chromium	mg/l	< 0.0050	0.201	0.200	100	80 - 120	8532	Duplicate
Copper	mg/l	0.0250	0.279	0.250	102	80 - 120	8532	Duplicate
Lead	mg/l	< 0.0030	0.0490	0.0500	98	80 - 120	8532	Duplicate
Molybdenum	mg/l	0.345	0.826	0.500	96	80 - 120	8532	Duplicate
Nickel	mg/l	< 0.0100	0.493	0.500	99	80 - 120	8532	Duplicate
Silver	mg/l	< 0.0050	0.0500	0.0500	100	80 - 120	8532	Duplicate

Project QC continued . . .



**PROJECT QUALITY CONTROL DATA**

**Project Number:**

**Project Name: BOEING**

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**Laboratory Receipt Date: 12/ 5/02**

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
Zinc	mg/l	0.111	0.621	0.500	102	80 - 120	8532	Duplicate

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
**MISC PARAMETERS**								
Cyanide	mg/l	< 0.005	0.108	0.100	108	80 - 120	1947	02-A198930

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
**METALS**						
Cadmium	mg/l	0.0490	0.0480	2.06	20	8532
Chromium	mg/l	0.201	0.197	2.01	20	8532
Copper	mg/l	0.279	0.273	2.17	20	8532
Lead	mg/l	0.0490	0.0480	2.06	20	8532
Molybdenum	mg/l	0.826	0.808	2.20	20	8532
Nickel	mg/l	0.493	0.482	2.26	20	8532
Silver	mg/l	0.0500	0.0480	4.08	20	8532
Zinc	mg/l	0.621	0.607	2.28	20	8532

**PROJECT QUALITY CONTROL DATA**

**Project Number:**

**Project Name: BOEING**

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**Laboratory Receipt Date: 12/ 5/02**

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
**MISC PARAMETERS**						
Cyanide	mg/l	0.108	0.102	5.71	20	1947

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
**UST PARAMETERS**						
Oil & Grease	mg/l	20.0	19.8	99	70 - 130	8825

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
**VOA PARAMETERS**						
Acrolein	mg/l	0.250	0.111	44	32 - 163	1399
Acrylonitrile	mg/l	0.250	0.228	91	78 - 140	1399
Benzene	mg/l	0.0500	0.0532	106	37 - 151	1399
Bromoform	mg/l	0.0500	0.0548	110	45 - 169	1399
Bromomethane	mg/l	0.0500	0.0517	103	1 - 242	1399
Carbon tetrachloride	mg/l	0.0500	0.0633	127	70 - 140	1399
Chlorobenzene	mg/l	0.0500	0.0545	109	37 - 160	1399
Chloroethane	mg/l	0.0500	0.0550	110	14 - 230	1399
Chloroform	mg/l	0.0500	0.0566	113	51 - 138	1399
Chloromethane	mg/l	0.0500	0.0410	82	10 - 273	1399
Dibromochloromethane	mg/l	0.0500	0.0569	114	53 - 149	1399
1,2-Dichlorobenzene	mg/l	0.0500	0.0559	112	18 - 190	1399
1,3-Dichlorobenzene	mg/l	0.0500	0.0547	109	59 - 156	1399

Project QC continued . . .

**PROJECT QUALITY CONTROL DATA**

**Project Number:**

**Project Name: BOEING**

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**Laboratory Receipt Date: 12/ 5/02**

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,4-Dichlorobenzene	mg/l	0.0500	0.0525	105	18 - 190	1399
Dichlorodifluoromethane	mg/l	0.0500	0.0489	98	33 - 170	1399
1,1-Dichloroethane	mg/l	0.0500	0.0563	113	59 - 155	1399
1,2-Dichloroethane	mg/l	0.0500	0.0552	110	49 - 155	1399
1,1-Dichloroethene	mg/l	0.0500	0.0606	121	1 - 234	1399
1,2-Dichloroethene (total)	mg/l	0.100	0.112	112	54 - 156	1399
1,2-Dichloropropane	mg/l	0.0500	0.0543	109	10 - 210	1399
cis-1,3-Dichloropropene	mg/l	0.0500	0.0567	113	1 - 227	1399
trans-1,3-Dichloropropene	mg/l	0.0500	0.0576	115	17 - 183	1399
Ethylbenzene	mg/l	0.0500	0.0465	93	37 - 162	1399
Methylene chloride	mg/l	0.0500	0.0553	111	1 - 221	1399
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0485	97	46 - 157	1399
Tetrachloroethene	mg/l	0.0500	0.0512	102	64 - 148	1399
Toluene	mg/l	0.0500	0.0544	109	47 - 150	1399
1,1,1-Trichloroethane	mg/l	0.0500	0.0594	119	52 - 162	1399
1,1,2-Trichloroethane	mg/l	0.0500	0.0562	112	52 - 150	1399
Trichloroethene	mg/l	0.0500	0.0578	116	71 - 157	1399
Vinyl chloride	mg/l	0.0500	0.0535	107	1 - 251	1399
Xylenes (Total)	mg/l	0.150	0.142	95	76 - 134	1399
Bromodichloromethane	mg/l	0.0500	0.0577	115	35 - 155	1399
Trichlorofluoromethane	mg/l	0.0500	0.0561	112	17 - 181	1399

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
<b>**EXTRACTABLE PARAMETERS**</b>						
Acenaphthene	mg/l	0.0500	0.0350	70	47 - 145	451
Acenaphthylene	mg/l	0.0500	0.0390	78	33 - 145	451
Anthracene	mg/l	0.0500	0.0430	86	27 - 133	451

Project QC continued . . .

**PROJECT QUALITY CONTROL DATA**  
**Project Number:**  
**Project Name: BOEING**  
**Page: 7**  
**Laboratory Receipt Date: 12/ 5/02**

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Benzidine	mg/l	0.0500	0.0210	42	1 - 98	451
Benzo(a)anthracene	mg/l	0.0500	0.0460	92	33 - 143	451
Benzo(a)pyrene	mg/l	0.0500	0.0480	96	17 - 163	451
Benzo(b)fluoranthene	mg/l	0.0500	0.0480	96	24 - 159	451
Benzo(g,h,i)perylene	mg/l	0.0500	0.0310	62	1 - 219	451
Benzo(k)fluoranthene	mg/l	0.0500	0.0680	136	11 - 162	451
4-Bromophenylphenylether	mg/l	0.0500	0.0450	90	53 - 127	451
Butylbenzylphthalate	mg/l	0.0500	0.0380	76	1 - 152	451
4-Chloro-3-methylphenol	mg/l	0.0500	0.0410	82	22 - 147	451
bis(2-Chloroethoxy)methane	mg/l	0.0500	0.0340	68	33 - 184	451
bis(2-Chloroethyl)ether	mg/l	0.0500	0.0400	80	12 - 158	451
bis(2-Chloroisopropyl)ether	mg/l	0.0500	0.0330	66	36 - 166	451
2-Chloronaphthalene	mg/l	0.0500	0.0440	88	60 - 118	451
2-Chlorophenol	mg/l	0.0500	0.0250	50	23 - 134	451
4-Chlorophenylphenylether	mg/l	0.0500	0.0430	86	25 - 158	451
Chrysene	mg/l	0.0500	0.0560	112	17 - 168	451
Dibenz(a,h)anthracene	mg/l	0.0500	0.0350	70	1 - 227	451
1,2-Dichlorobenzene	mg/l	0.0500	0.0280	56	32 - 129	451
1,3-Dichlorobenzene	mg/l	0.0500	0.0280	56	10 - 172	451
1,4-Dichlorobenzene	mg/l	0.0500	0.0290	58	20 - 124	451
3,3'-Dichlorobenzidine	mg/l	0.0500	0.0480	96	10 - 262	451
2,4-Dichlorophenol	mg/l	0.0500	0.0290	58	39 - 135	451
Diethylphthalate	mg/l	0.0500	0.0230	46	1 - 114	451
2,4-Dimethylphenol	mg/l	0.0500	0.0380	76	32 - 119	451
Dimethylphthalate	mg/l	0.0500	0.00400	8	1 - 112	451
Di-n-butylphthalate	mg/l	0.0500	0.0380	76	1 - 118	451
2,4-Dinitrophenol	mg/l	0.0500	0.0130	26	1 - 191	451
2,4-dinitrotoluene	mg/l	0.0500	0.0480	96	39 - 139	451
2,6-Dinitrotoluene	mg/l	0.0500	0.0440	88	50 - 158	451
Di-n-octylphthalate	mg/l	0.0500	0.0550	110	4 - 146	451
1,2-Diphenylhydrazine	mg/l	0.0500	0.0380	76	45 - 124	451

Project QC continued . . .



**PROJECT QUALITY CONTROL DATA**

**Project Number:**

**Project Name: BOEING**

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**Laboratory Receipt Date: 12/ 5/02**

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Chromium	mg/l	0.200	0.200	100	85 - 115	8532
Copper	mg/l	0.250	0.251	100	85 - 115	8532
Lead	mg/l	0.0500	0.0470	94	85 - 115	8532
Molybdenum	mg/l	0.500	0.494	99	85 - 115	8532
Nickel	mg/l	0.500	0.509	102	85 - 115	8532
Silver	mg/l	0.0500	0.0500	100	85 - 115	8532
Zinc	mg/l	0.500	0.519	104	85 - 115	8532

Continuing Calibration Verification

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
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\*\*METALS\*\*

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
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\*\*MISC PARAMETERS\*\*

BOD 5 Day	mg/l	198.	201.	102	85 - 115	8189
BOD 5 Day	mg/l	198.	207.	105	85 - 115	8189
Cyanide	mg/l	0.100	0.095	95	90 - 110	1947

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
BOD 5 Day	mg/l	223.	213.	4.59	15.	8189	02-A198965
BOD 5 Day	mg/l	75.5	56.7	28.44 #	15.	8189	02-A198930
BOD 5 Day	mg/l	118.	112.	5.22	15.	8189	02-A198935

Project QC continued . . .

**PROJECT QUALITY CONTROL DATA**

**Project Number:**

**Project Name: BOEING**

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**Laboratory Receipt Date: 12/ 5/02**

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Cyanide	mg/l	< 0.005	< 0.005	N/A	15.	1947	02-A201733
Total Suspended Solids	mg/l	208.	215.	3.31	15.	8402	02-A199145
Total Suspended Solids	mg/l	101.	108.	6.70	15.	8402	02-A198935

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
**VOA PARAMETERS**					
Acrolein	< 0.00500	mg/l	1399	12/ 8/02	1:59
Acrylonitrile	< 0.00500	mg/l	1399	12/ 8/02	1:59
Benzene	< 0.00100	mg/l	1399	12/ 8/02	1:59
Bromoform	< 0.00100	mg/l	1399	12/ 8/02	1:59
Bromomethane	< 0.00100	mg/l	1399	12/ 8/02	1:59
Carbon tetrachloride	< 0.00100	mg/l	1399	12/ 8/02	1:59
Chlorobenzene	< 0.00100	mg/l	1399	12/ 8/02	1:59
Chloroethane	< 0.00100	mg/l	1399	12/ 8/02	1:59
Chloroform	< 0.00100	mg/l	1399	12/ 8/02	1:59
Chloromethane	< 0.00100	mg/l	1399	12/ 8/02	1:59
Dibromochloromethane	< 0.00100	mg/l	1399	12/ 8/02	1:59
1,2-Dichlorobenzene	< 0.00100	mg/l	1399	12/ 8/02	1:59
1,3-Dichlorobenzene	< 0.00100	mg/l	1399	12/ 8/02	1:59
1,4-Dichlorobenzene	< 0.00100	mg/l	1399	12/ 8/02	1:59
Dichlorodifluoromethane	< 0.00100	mg/l	1399	12/ 8/02	1:59
1,1-Dichloroethane	< 0.00100	mg/l	1399	12/ 8/02	1:59
1,2-Dichloroethane	< 0.00100	mg/l	1399	12/ 8/02	1:59
1,1-Dichloroethene	< 0.00100	mg/l	1399	12/ 8/02	1:59
1,2-Dichloroethene (total)	< 0.0010	mg/l	1399	12/ 8/02	1:59
1,2-Dichloropropane	< 0.0010	mg/l	1399	12/ 8/02	1:59
cis-1,3-Dichloropropene	< 0.00100	mg/l	1399	12/ 8/02	1:59
trans-1,3-Dichloropropene	< 0.00100	mg/l	1399	12/ 8/02	1:59

Project QC continued . . .

**PROJECT QUALITY CONTROL DATA**

**Project Number:**

**Project Name: BOEING**

**Page: 11**

**Laboratory Receipt Date: 12/ 5/02**

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Ethylbenzene	< 0.00100	mg/l	1399	12/ 8/02	1:59
Methylene chloride	< 0.00500	mg/l	1399	12/ 8/02	1:59
1,1,2,2-Tetrachloroethane	< 0.00100	mg/l	1399	12/ 8/02	1:59
Tetrachloroethene	< 0.00100	mg/l	1399	12/ 8/02	1:59
Toluene	< 0.00100	mg/l	1399	12/ 8/02	1:59
1,1,1-Trichloroethane	< 0.00100	mg/l	1399	12/ 8/02	1:59
1,1,2-Trichloroethane	< 0.00100	mg/l	1399	12/ 8/02	1:59
Trichloroethene	< 0.00100	mg/l	1399	12/ 8/02	1:59
Vinyl chloride	< 0.00100	mg/l	1399	12/ 8/02	1:59
Xylenes (Total)	< 0.00100	mg/l	1399	12/ 8/02	1:59
Bromodichloromethane	< 0.00100	mg/l	1399	12/ 8/02	1:59
Trichlorofluoromethane	< 0.00100	mg/l	1399	12/ 8/02	1:59
VOA Surrogate, 1,2-Dichloroethane, d4103.		% Rec	1399	12/ 8/02	1:59
VOA Surrogate, Toluene d8	107.	% Rec	1399	12/ 8/02	1:59
VOA Surrogate, 4-Bromofluorobenzene	108.	% Rec	1399	12/ 8/02	1:59
VOA Surrogate, Dibromofluoromethane	106.	% Rec	1399	12/ 8/02	1:59

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
**EXTRACTABLE PARAMETERS**					
Acenaphthene	< 0.0100	mg/l	451	12/ 7/02	22:15
Acenaphthylene	< 0.0100	mg/l	451	12/ 7/02	22:15
Anthracene	< 0.0100	mg/l	451	12/ 7/02	22:15
Benzidine	< 0.0100	mg/l	451	12/ 7/02	22:15
Benzo(a)anthracene	< 0.0100	mg/l	451	12/ 7/02	22:15
Benzo(a)pyrene	< 0.0100	mg/l	451	12/ 7/02	22:15
Benzo(b)fluoranthene	< 0.0100	mg/l	451	12/ 7/02	22:15
Benzo(g,h,i)perylene	< 0.0100	mg/l	451	12/ 7/02	22:15

Project QC continued . . .



Client Number **1181**  
 Client Name **The Boeing Company**  
 Laboratory ID Number **L96938-1**  
 Client Sample Description **DSN001**  
 P.O. #

Attention **Scotty Moates, D250**  
 Ref  
 Collected **04-DEC-03**  
 Received **04-DEC-03**  
 Project

Parameter	Result	Limit	Method	Analyst	Run Date
1,2-Dichloroethane	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
1,2-Dichloropropane	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
1,3-Dichlorobenzene	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
1,4-Dichlorobenzene	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
2-Chloroethyl vinyl ether	<10.0 ug/l		EPA 624	FDW	12/11/03 07:48
Benzene	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
Bromodichloromethane	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
Bromoform	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
Bromomethane	<10.0 ug/l		EPA 624	FDW	12/11/03 07:48
Carbon tetrachloride	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
Chlorobenzene	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
Chloroethane	<10.0 ug/l		EPA 624	FDW	12/11/03 07:48
Chloroform	18. ug/l		EPA 624	FDW	12/11/03 07:48
Chloromethane	<10.0 ug/l		EPA 624	FDW	12/11/03 07:48
Dibromochloromethane	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
Ethylbenzene	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48

< indicates parameter was not detected at the indicated detection limit.

Report Date 12/23/2003

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**PROJECT QUALITY CONTROL DATA**  
**Project Number:**  
**Project Name: BOEING**  
**Page: 12**  
**Laboratory Receipt Date: 12/ 5/02**

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Benzo (k) fluoranthene	< 0.0100	mg/l	451	12/ 7/02	22:15
4-Bromophenylphenylether	< 0.0100	mg/l	451	12/ 7/02	22:15
Butylbenzylphthalate	< 0.0100	mg/l	451	12/ 7/02	22:15
4-Chloro-3-methylphenol	< 0.0100	mg/l	451	12/ 7/02	22:15
bis (2-Chloroethoxy)methane	< 0.0100	mg/l	451	12/ 7/02	22:15
bis (2-Chloroethyl) ether	< 0.0100	mg/l	451	12/ 7/02	22:15
bis (2-Chloroisopropyl) ether	< 0.0100	mg/l	451	12/ 7/02	22:15
2-Chloronaphthalene	< 0.0100	mg/l	451	12/ 7/02	22:15
2-Chlorophenol	< 0.0100	mg/l	451	12/ 7/02	22:15
4-Chlorophenylphenylether	< 0.0100	mg/l	451	12/ 7/02	22:15
Chrysene	< 0.0100	mg/l	451	12/ 7/02	22:15
Dibenz (a, h) anthracene	< 0.0100	mg/l	451	12/ 7/02	22:15
1, 2-Dichlorobenzene	< 0.0100	mg/l	451	12/ 7/02	22:15
1, 3-Dichlorobenzene	< 0.0100	mg/l	451	12/ 7/02	22:15
1, 4-Dichlorobenzene	< 0.0100	mg/l	451	12/ 7/02	22:15
3, 3'-Dichlorobenzidine	< 0.0100	mg/l	451	12/ 7/02	22:15
2, 4-Dichlorophenol	< 0.0100	mg/l	451	12/ 7/02	22:15
Diethylphthalate	< 0.0100	mg/l	451	12/ 7/02	22:15
2, 4-Dimethylphenol	< 0.0100	mg/l	451	12/ 7/02	22:15
Dimethylphthalate	< 0.0100	mg/l	451	12/ 7/02	22:15
Di-n-butylphthalate	< 0.0100	mg/l	451	12/ 7/02	22:15
2, 4-Dinitrophenol	< 0.0100	mg/l	451	12/ 7/02	22:15
2, 4-dinitrotoluene	< 0.0100	mg/l	451	12/ 7/02	22:15
2, 6-Dinitrotoluene	< 0.0100	mg/l	451	12/ 7/02	22:15
Di-n-octylphthalate	< 0.0100	mg/l	451	12/ 7/02	22:15
1, 2-Diphenylhydrazine	< 0.0100	mg/l	451	12/ 7/02	22:15
Fluoranthene	< 0.0100	mg/l	451	12/ 7/02	22:15
Fluorene	< 0.0100	mg/l	451	12/ 7/02	22:15
Hexachlorobenzene	< 0.0100	mg/l	451	12/ 7/02	22:15
Hexachlorobutadiene	< 0.0100	mg/l	451	12/ 7/02	22:15
Hexachlorocyclopentadiene	< 0.0100	mg/l	451	12/ 7/02	22:15

Project QC continued . . .

**PROJECT QUALITY CONTROL DATA**  
**Project Number:**  
**Project Name: BOEING**  
**Page: 13**  
**Laboratory Receipt Date: 12/ 5/02**

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Hexachloroethane	< 0.0100	mg/l	451	12/ 7/02	22:15
Indeno(1,2,3-cd)pyrene	< 0.0100	mg/l	451	12/ 7/02	22:15
Isophorone	< 0.0100	mg/l	451	12/ 7/02	22:15
2-Methyl-4,6-dinitrophenol	< 0.0100	mg/l	451	12/ 7/02	22:15
Naphthalene	< 0.0100	mg/l	451	12/ 7/02	22:15
Nitrobenzene	< 0.0100	mg/l	451	12/ 7/02	22:15
2-Nitrophenol	< 0.0100	mg/l	451	12/ 7/02	22:15
4-Nitrophenol	< 0.0100	mg/l	451	12/ 7/02	22:15
N-nitrosodi-n-propylamine	< 0.0100	mg/l	451	12/ 7/02	22:15
N-nitrosodiphenylamine	< 0.0100	mg/l	451	12/ 7/02	22:15
N-nitrosodimethylamine	< 0.0100	mg/l	451	12/ 7/02	22:15
Pentachlorophenol	< 0.0100	mg/l	451	12/ 7/02	22:15
Phenanthrene	< 0.0100	mg/l	451	12/ 7/02	22:15
Phenol	< 0.0100	mg/l	451	12/ 7/02	22:15
Pyrene	< 0.0100	mg/l	451	12/ 7/02	22:15
Bis(2-ethylhexyl)phthalate	< 0.0100	mg/l	451	12/ 7/02	22:15
1,2,4-Trichlorobenzene	< 0.0100	mg/l	451	12/ 7/02	22:15
2,4,6-Trichlorophenol	< 0.0100	mg/l	451	12/ 7/02	22:15

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
**METALS**					
Cadmium	< 0.0010	mg/l	8532	12/ 6/02	15:04
Chromium	< 0.0050	mg/l	8532	12/ 6/02	15:04
Copper	< 0.0100	mg/l	8532	12/ 6/02	15:04
Lead	< 0.0030	mg/l	8532	12/ 6/02	15:04
Molybdenum	< 0.0500	mg/l	8532	12/ 6/02	15:04
Nickel	< 0.0100	mg/l	8532	12/ 6/02	15:04

Project QC continued . . .

**PROJECT QUALITY CONTROL DATA**

**Project Number:**

**Project Name: BOEING**

**Page: 14**

**Laboratory Receipt Date: 12/ 5/02**

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Silver	< 0.0050	mg/l	8532	12/ 6/02	15:04
Zinc	< 0.0200	mg/l	8532	12/ 6/02	15:04

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
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**\*\*MISC PARAMETERS\*\***

BOD 5 Day	< 2.00	mg/l	8189	12/10/02	22:00
Cyanide	< 0.005	mg/l	1947	12/11/02	0:30
Total Suspended Solids	< 1.0	mg/l	8402	12/ 6/02	1:35
Total Suspended Solids	< 1.0	mg/l	8402	12/ 6/02	1:35

# = Value outside Laboratory historical or method prescribed QC limits.

Client Number **1181**

Client Name **The Boeing Company**

Laboratory ID Number **L96938-1**

Client Sample Description **DSN001**

P.O. #

Attention **Scotty Moates, D250**

Ref

Collected **04-DEC-03**

Received **04-DEC-03**

Project

Parameter	Result	Limit	Method	Analyst	Run Date
Total Suspended Solids	<2.50 mg/l		EPA 160.2	JFS	12/07/03 09:30
Cadmium, Total	<0.00300 mg/l		EPA 200.7	JW	12/09/03 15:12
Chromium, Total	<0.0100 mg/l		EPA 200.7	JW	12/09/03 15:12
Copper, Total	0.0390 mg/l		EPA 200.7	JW	12/09/03 15:12
Lead, Total	<0.0250 mg/l		EPA 200.7	JW	12/09/03 15:12
Molybdenum, Total	<0.0380 mg/l		EPA 200.7	JW	12/09/03 15:12
Nickel, Total	<0.00700 mg/l		EPA 200.7	JW	12/09/03 15:12
Silver, Total	<0.0100 mg/l		EPA 200.7	JW	12/09/03 15:12
Zinc, Total	0.234 mg/l		EPA 200.7	JW	12/09/03 15:12
Total Cyanide	<0.00500 mg/l		EPA 335.2	JW	12/10/03 18:00
1,1,1-Trichloroethane	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
1,1,2,2-Tetrachloroethane	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
1,1,2-Trichloroethane	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
1,1-Dichloroethane	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
1,1-Dichloroethene	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
1,2-Dichlorobenzene	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48

indicates parameter was not detected at the indicated detection limit.

Report Date 12/23/2003

Page 1 of 7

Client Number **1181**

Client Name **The Boeing Company**

Laboratory ID Number **L96938-1**

Client Sample Description **DSN001**

P.O. #

Attention **Scotty Moates, D250**

Ref

Collected **04-DEC-03**

Received **04-DEC-03**

Project

Parameter	Result	Limit	Method	Analyst	Run Date
Methylene chloride	<20.0 ug/l		EPA 624	FDW	12/11/03 07:48
Tetrachloroethene	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
Toluene	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
Trichloroethene	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
Trichlorofluoromethane	<10.0 ug/l		EPA 624	FDW	12/11/03 07:48
Vinyl chloride	<10.0 ug/l		EPA 624	FDW	12/11/03 07:48
Xylenes (total)	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
cis-1,3-Dichloropropene	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
trans-1,2-Dichloroethene	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
trans-1,3-Dichloropropene	<5.00 ug/l		EPA 624	FDW	12/11/03 07:48
1,2,4-Trichlorobenzene	<20.0 ug/l		EPA 625	JCS	12/11/03 21:25
1,2-Dichlorobenzene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
1,3-Dichlorobenzene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
1,4-Dichlorobenzene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
2,4,6-Trichlorophenol	<20.0 ug/l		EPA 625	JCS	12/11/03 21:25
2,4-Dichlorophenol	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25

< indicates parameter was not detected at the indicated detection limit.

Report Date 12/23/2003

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Client Number **1181**

Client Name **The Boeing Company**

Laboratory ID Number **L96938-1**

Client Sample Description **DSN001**

P.O. #

Attention **Scotty Moates, D250**

Ref

Collected **04-DEC-03**

Received **04-DEC-03**

Project

Parameter	Result	Limit	Method	Analyst	Run Date
Benzo(a)anthracene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Benzo(a)pyrene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Benzo(b)fluoranthene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Benzo(g,h,i)perylene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Benzo(k)fluoranthene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Benzyl butyl phthalate	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Bis(2-Chloroethyl) ether	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Bis(2-Chloroisopropyl)ether	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Bis(2-chloroethoxy)methane	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Bis(2-ethylhexyl)phthalate	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Chrysene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Di-n-butylphthalate	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Di-n-octylphthalate	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Dibenzo(a,h)anthracene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Diethylphthalate	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Dimethylphthalate	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25

< indicates parameter was not detected at the indicated detection limit.

Report Date 12/23/2003

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Client Number **1181**

 Client Name **The Boeing Company**

 Laboratory ID Number **L96938-1**

 Client Sample Description **DSN001**

P.O. #

 Attention **Scotty Moates, D250**

Ref

 Collected **04-DEC-03**

 Received **04-DEC-03**

Project

Parameter	Result	Limit	Method	Analyst	Run Date
Fluoranthene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Fluorene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Hexachlorobenzene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Hexachlorobutadiene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Hexachloroethane	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Indeno(1,2,3-cd)pyrene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Isophorone	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
N-Nitrosodi-n-propylamine	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Naphthalene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Nitrobenzene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Pentachlorophenol	<50.0 ug/l		EPA 625	JCS	12/11/03 21:25
Phenanthrene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Phenol	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
Pyrene	<10.0 ug/l		EPA 625	JCS	12/11/03 21:25
BOD	50.0 mg/l		SM 5210B	SS	12/05/03 15:39 12/10/03 14:37
Oil & Grease	<5.00 mg/l		SM 5520B	JFS	12/09/03 10:00

\* indicates parameter was not detected at the indicated detection limit.

Report Date 12/23/2003

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Client Number **1181**

Client Name **The Boeing Company**

Laboratory ID Number **L96938-1**

Client Sample Description **DSN001**

P.O. #

Attention **Scotty Moates, D250**

Ref

Collected **04-DEC-03**

Received **04-DEC-03**

Project

Parameter	Result	Limit	Method	Analyst	Run Date
Total Toxic Organics	0.018 mg/l				

< indicates parameter was not detected at the indicated detection limit.

Report Date 12/23/2003

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