ANALYTICAL REPORT

PROJECT NO. 05160-SEV002

Boeing C-6/Tait Groundwater

Lot #: E2C270258

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Project Manager

March 29, 2002

EXECUTIVE SUMMARY - Detection Highlights

E2C270258

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
XMW_18_0302702_1115 03/27/02 11:15 002				
Chlorobenzene	57	12	ug/L	SW846 8260B
1,1-Dichloroethene	14	12	ug/L	SW846 8260B
Chloroform	7.5 J	12	ug/L	SW846 8260B
Trichloroethene	1100	12	ug/L	SW846 8260B
DAC_P1_032702_1215 03/27/02 12:15 003				
cis-1,2-Dichloroethene	170 J	250	ug/L	SW846 8260B
Trichloroethene	17000	250	ug/L	SW846 8260B

METHODS SUMMARY

E2C270258

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E2C270258

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EW23A	001	EB_TAIT032702_0001	03/27/02	06:30
EW23C	002	XMW_18_0302702_1115	03/27/02	11:15
EW23D	003	DAC_P1_032702_1215	03/27/02	12:15
EW23F	004	TB_TAIT032702_0001	03/27/02	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TAIT ENVIRONMENTAL

Client Sample ID: EB_TAIT032702_0001

GC/MS Volatiles

Lot-Sample #...: E2C270258-001 **Work Order #...:** EW23A1AA **Matrix.....:** WATER
Date Sampled...: 03/27/02 06:30 **Date Received..:** 03/27/02 13:40 **MS Run #.....:** 2087119
Prep Date.....: 03/27/02 **Analysis Date..:** 03/27/02
Prep Batch #...: 2087254 **Analysis Time..:** 21:43
Dilution Factor: 1
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	3.0
Benzene	ND	1.0	ug/L	0.30
Bromobenzene	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Carbon tetrachloride	ND	0.50	ug/L	0.30
2-Butanone	ND	5.0	ug/L	3.0
n-Butylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
Carbon disulfide	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Bromodichloromethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Chloromethane	ND	2.0	ug/L	0.30
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Iodomethane	ND	2.0	ug/L	1.0
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Vinyl chloride	ND	0.50	ug/L	0.30
2,2-Dichloropropane	ND	1.0	ug/L	0.30
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20

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TAIT ENVIRONMENTAL

Client Sample ID: EB_TAIT032702_0001

GC/MS Volatiles

Lot-Sample #...: E2C270258-001 **Work Order #...:** EW23A1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Hexachlorobutadiene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Isopropylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
n-Propylbenzene	ND	1.0	ug/L	0.40
Styrene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
1,1,2-Trichlorotrifluoro-ethane	ND	1.0	ug/L	0.40
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
Xylenes (total)	ND	1.0	ug/L	0.80
Acrolein	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	10
Vinyl acetate	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(75 - 130)
1,2-Dichloroethane-d4	97	(65 - 135)
Toluene-d8	101	(80 - 130)

TAIT ENVIRONMENTAL

Client Sample ID: XMW_18_0302702_1115

GC/MS Volatiles

Lot-Sample #...: E2C270258-002 **Work Order #...:** EW23C1AA **Matrix.....:** WATER
Date Sampled...: 03/27/02 11:15 **Date Received..:** 03/27/02 13:40 **MS Run #.....:** 2087119
Prep Date.....: 03/27/02 **Analysis Date..:** 03/27/02
Prep Batch #...: 2087254 **Analysis Time..:** 22:42
Dilution Factor: 12.5
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	120	ug/L	38
Benzene	ND	12	ug/L	3.8
Bromobenzene	ND	12	ug/L	3.8
Bromochloromethane	ND	12	ug/L	3.8
Bromoform	ND	12	ug/L	3.8
Bromomethane	ND	25	ug/L	12
Carbon tetrachloride	ND	6.2	ug/L	3.8
2-Butanone	ND	62	ug/L	38
n-Butylbenzene	ND	12	ug/L	3.8
sec-Butylbenzene	ND	12	ug/L	3.8
tert-Butylbenzene	ND	12	ug/L	2.5
Carbon disulfide	ND	12	ug/L	3.8
Chlorobenzene	**57**	**12**	**ug/L**	**3.8**
Dibromochloromethane	ND	12	ug/L	5.0
Dichlorodifluoromethane	ND	12	ug/L	5.0
Bromodichloromethane	ND	12	ug/L	3.8
1,2-Dichloroethane	ND	6.2	ug/L	5.0
1,1-Dichloroethene	**14**	**12**	**ug/L**	**3.8**
Chloroethane	ND	25	ug/L	3.8
Chloroform	**7.5 J**	**12**	**ug/L**	**3.8**
Chloromethane	ND	25	ug/L	3.8
2-Chlorotoluene	ND	12	ug/L	3.8
4-Chlorotoluene	ND	12	ug/L	3.8
1,2-Dibromo-3-chloro-propane	ND	25	ug/L	8.8
1,2-Dibromoethane	ND	12	ug/L	3.8
Iodomethane	ND	25	ug/L	12
1,2-Dichlorobenzene	ND	12	ug/L	3.8
1,3-Dichlorobenzene	ND	12	ug/L	3.8
1,4-Dichlorobenzene	ND	12	ug/L	3.8
1,1-Dichloroethane	ND	12	ug/L	2.5
cis-1,2-Dichloroethene	ND	12	ug/L	3.8
trans-1,2-Dichloroethene	ND	12	ug/L	3.8
Vinyl chloride	ND	6.2	ug/L	3.8
2,2-Dichloropropane	ND	12	ug/L	3.8
1,1-Dichloropropene	ND	12	ug/L	3.8
Ethylbenzene	ND	12	ug/L	2.5

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TAIT ENVIRONMENTAL

Client Sample ID: XMW_18_0302702_1115

GC/MS Volatiles

Lot-Sample #...: E2C270258-002 **Work Order #...:** EW23C1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Hexachlorobutadiene	ND	12	ug/L	3.8
2-Hexanone	ND	62	ug/L	38
Isopropylbenzene	ND	12	ug/L	3.8
p-Isopropyltoluene	ND	12	ug/L	3.8
Methylene chloride	ND	12	ug/L	3.8
4-Methyl-2-pentanone	ND	62	ug/L	38
Methyl tert-butyl ether	ND	12	ug/L	6.2
n-Propylbenzene	ND	12	ug/L	5.0
Styrene	ND	12	ug/L	3.8
1,1,1,2-Tetrachloroethane	ND	12	ug/L	3.8
1,1,2,2-Tetrachloroethane	ND	12	ug/L	5.0
Tetrachloroethene	ND	12	ug/L	3.8
Toluene	ND	12	ug/L	3.8
1,2,3-Trichlorobenzene	ND	12	ug/L	5.0
1,2,4-Trichloro-benzene	ND	12	ug/L	3.8
1,1,1-Trichloroethane	ND	12	ug/L	2.5
1,1,2-Trichloroethane	ND	12	ug/L	3.8
Trichloroethene	**1100**	**12**	**ug/L**	**3.8**
Trichlorofluoromethane	ND	25	ug/L	3.8
1,2,3-Trichloropropane	ND	12	ug/L	5.0
1,1,2-Trichlorotrifluoro-ethane	ND	12	ug/L	5.0
1,2,4-Trimethylbenzene	ND	12	ug/L	3.8
1,3,5-Trimethylbenzene	ND	12	ug/L	2.5
Xylenes (total)	ND	12	ug/L	10
Acrolein	ND	250	ug/L	150
Acrylonitrile	ND	250	ug/L	120
Vinyl acetate	ND	62	ug/L	25
Tetrahydrofuran	ND	120	ug/L	25
2-Chloroethyl vinyl ether	ND	62	ug/L	25

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	97	(65 - 135)
Toluene-d8	100	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: DAC_P1_032702_1215

GC/MS Volatiles

Lot-Sample #...: E2C270258-003 **Work Order #...:** EW23D1AA **Matrix.....:** WATER
Date Sampled...: 03/27/02 12:15 **Date Received..:** 03/27/02 13:40 **MS Run #.....:** 2087119
Prep Date.....: 03/27/02 **Analysis Date..:** 03/27/02
Prep Batch #...: 2087254 **Analysis Time..:** 23:12
Dilution Factor: 250
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2500	ug/L	750
Benzene	ND	250	ug/L	75
Bromobenzene	ND	250	ug/L	75
Bromochloromethane	ND	250	ug/L	75
Bromoform	ND	250	ug/L	75
Bromomethane	ND	500	ug/L	250
Carbon tetrachloride	ND	120	ug/L	75
2-Butanone	ND	1200	ug/L	750
n-Butylbenzene	ND	250	ug/L	75
sec-Butylbenzene	ND	250	ug/L	75
tert-Butylbenzene	ND	250	ug/L	50
Carbon disulfide	ND	250	ug/L	75
Chlorobenzene	ND	250	ug/L	75
Dibromochloromethane	ND	250	ug/L	100
Dichlorodifluoromethane	ND	250	ug/L	100
Bromodichloromethane	ND	250	ug/L	75
1,2-Dichloroethane	ND	120	ug/L	100
1,1-Dichloroethene	ND	250	ug/L	75
Chloroethane	ND	500	ug/L	75
Chloroform	ND	250	ug/L	75
Chloromethane	ND	500	ug/L	75
2-Chlorotoluene	ND	250	ug/L	75
4-Chlorotoluene	ND	250	ug/L	75
1,2-Dibromo-3-chloro-propane	ND	500	ug/L	180
1,2-Dibromoethane	ND	250	ug/L	75
Iodomethane	ND	500	ug/L	250
1,2-Dichlorobenzene	ND	250	ug/L	75
1,3-Dichlorobenzene	ND	250	ug/L	75
1,4-Dichlorobenzene	ND	250	ug/L	75
1,1-Dichloroethane	ND	250	ug/L	50
cis-1,2-Dichloroethene	**170 J**	**250**	**ug/L**	**75**
trans-1,2-Dichloroethene	ND	250	ug/L	75
Vinyl chloride	ND	120	ug/L	75
2,2-Dichloropropane	ND	250	ug/L	75
1,1-Dichloropropene	ND	250	ug/L	75
Ethylbenzene	ND	250	ug/L	50

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TAIT ENVIRONMENTAL

Client Sample ID: DAC_P1_032702_1215

GC/MS Volatiles

Lot-Sample #...: E2C270258-003 **Work Order #...:** EW23D1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Hexachlorobutadiene	ND	250	ug/L	75
2-Hexanone	ND	1200	ug/L	750
Isopropylbenzene	ND	250	ug/L	75
p-Isopropyltoluene	ND	250	ug/L	75
Methylene chloride	ND	250	ug/L	75
4-Methyl-2-pentanone	ND	1200	ug/L	750
Methyl tert-butyl ether	ND	250	ug/L	120
n-Propylbenzene	ND	250	ug/L	100
Styrene	ND	250	ug/L	75
1,1,1,2-Tetrachloroethane	ND	250	ug/L	75
1,1,2,2-Tetrachloroethane	ND	250	ug/L	100
Tetrachloroethene	ND	250	ug/L	75
Toluene	ND	250	ug/L	75
1,2,3-Trichlorobenzene	ND	250	ug/L	100
1,2,4-Trichloro-benzene	ND	250	ug/L	75
1,1,1-Trichloroethane	ND	250	ug/L	50
1,1,2-Trichloroethane	ND	250	ug/L	75
Trichloroethene	**17000**	**250**	**ug/L**	**75**
Trichlorofluoromethane	ND	500	ug/L	75
1,2,3-Trichloropropane	ND	250	ug/L	100
1,1,2-Trichlorotrifluoro-ethane	ND	250	ug/L	100
1,2,4-Trimethylbenzene	ND	250	ug/L	75
1,3,5-Trimethylbenzene	ND	250	ug/L	50
Xylenes (total)	ND	250	ug/L	200
Acrolein	ND	5000	ug/L	3000
Acrylonitrile	ND	5000	ug/L	2500
Vinyl acetate	ND	1200	ug/L	500
Tetrahydrofuran	ND	2500	ug/L	500
2-Chloroethyl vinyl ether	ND	1200	ug/L	500

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
1,2-Dichloroethane-d4	96	(65 - 135)
Toluene-d8	98	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.