The Boeing Company
P.O. Box 516
St. Louis, MO 63166-0516
(314) 232-0232 TELEX 44-857

REC'D
AUG 25 2003
RCAP

GT64C-5422-JWH
19 August 2002

BOEING

Ms. Demetra Salisbury
U.S. Environmental Protection Agency Region VII
901 North Fifth Street
Kansas City, Kansas 66101

Enclosure: Corrective Action Quarterly Progress Report-Second Quarter 2003

Dear Ms. Salisbury:

The enclosed Quarterly Progress Report is submitted as required by Section XI. of the Corrective Action Conditions of the Hazardous Waste Management Facility Permit, Number MOD 000 818 963. Three copies of the report will also be submitted to the Missouri Department of Natural Resources as required under the terms of the permit.

Please contact me should you need additional information.

Sincerely,

Joe Haake

Joseph W. Haake, Group Manager
Environmental and Hazardous Materials Services
Dept. GT64C, Bldg. 220, Mailcode S221-1400
(314) 232-6941

419016
RCRA RECORDS

Quarterly Progress Report for Second Quarter 2003

Description of the work completed

Submitted a statement of work in response to MDNR comments to the Environmental Field Investigation Report for Tract I South.

Submitted a summary report on the HRC pilot project at the former fabrication operations facility.

Met with MDNR and St. Louis Airport representatives on June 16and 18 to discuss additional investigation to finalize the RFI.

Received comments from MDNR on June 26 on additional investigation required to complete the RFI.

Submitted a revised statement of work as requested on June 27.

Began field investigation on June 30 as outlined in the submitted revised statement of work.

Summary of all findings

Second quarter ground water sampling results are attached.

Summary of all problems or potential problems and actions taken to rectify problems

None

Projected work for the next reporting period

Continue quarterly monitoring well sampling.

Instances of noncompliance with the corrective actions of the permit

None

Table 1
Summary of 2003 Quarterly Groundwater Sampling
Detected Concentrations for Background Groundwater Monitoring Well Samples
Former Boeing Fabrication Operations

CONSTITUENT	UNITS	MW1	MW2	MW4	INVESTIGATION THRESHOLD LEVEL (ITL)*
		Jun '03	Jun '03	Jun '03	
Volatile Organics					
1,1,2-Trichloro-1,2,2-Trifluorethane	ug/l	<1	<1	<1	--
1,1,2-Trichloroethane	ug/l	<1	<1	<1	5
1,1-Dichloroethene	ug/l	<1	<1	<1	7
1,2,3-Trimethylbenzene	ug/l	<1	<1	<1	--
1,2,4-Trimethylbenzene	ug/l	<1	<1	<1	12
Benzene	ug/l	**7.2**	**3.5**	<1	5
Chloroethane	ug/l	<1	<1	<1	4.6
Cis-1,2-Dichloroethene	ug/l	<1	**1.4**	<1	70
Methyl Tert-Butyl Ether	ug/l	<1	<1	<1	20
Methylene Chloride	ug/l	<5	<5	<5	5
Naphthalene	ug/l	<5	<5	<5	100
N-Propylbenzene	ug/l	<1	<1	<1	61
Tetrachloroethene	ug/l	<1	<1	<1	5
Toluene	ug/l	<5	<5	<5	150
Trans-1,2-Dichloroethene	ug/l	<1	<1	<1	100
Trichloroethene	ug/l	<1	<1	<1	5
Vinyl Chloride	ug/l	<1	<1	<1	2
Xylenes, Total	ug/l	<3	<3	<3	320

Notes:

< The compound was not detected above this quantitation limit.
* Remedial Action Plan, February 7, 2001, Harding ESE, Inc.
– ITL has not been established.
ug/l micrograms per liter
Shaded values indicate constituent concentrations which exceed the ITLs.

Table 2
Summary of Laboratory Analysis 2003 Quarterly Groundwater Sampling, Groundwater Monitoring Well Samples to the East of Building 27
Former Boeing Fabrication Operations Facility Tract 1 North

CONSTITUENT	UNITS	MW5AS		MW5B		MW5C		MW5D			MW6S		MW8		MW8AS		B25MW1	INVESTIGATION THRESHOLD LEVEL (ITL)*
		Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Mar '03 Dup	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Jun '03	
Volatile Organics																		
1,1,2-Trichloro-1,2,2-Trifluorethane	ug/l	NQ	<1	NQ	<1	NQ	<1	NQ	NQ	<1	NQ	<1	NQ	<1	NQ	<1	<1	--
1,1,2-Trichloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
1,1-Dichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7
1,2,3-Trimethylbenzene	ug/l	NQ	<1	NQ	<1	NQ	<1	NQ	NQ	<1	NQ	<1	NQ	<1	NQ	<1	<1	--
1,2,4-Trimethylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	12
Benzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.6	<1	1.9	<1	5
Chloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.6
Cis-1,2-Dichloroethene	ug/l	140 E	160 E	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	2.8	<1	<1	<1	70
Methyl Tert-Butyl Ether	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	20
Methylene Chloride	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Naphthalene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	100
N-Propylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	61
Tetrachloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	7.4	12 J	<1	<1	<1	<1	<1	5
Toluene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	150
Trans-1,2-Dichloroethene	ug/l	4	4.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	100
Trichloroethene	ug/l	280 E	320 E	<1	<1	<1	<1	<1	<1	<1	2.5	2.4 J	<1	<1	<1	<1	<1	5
Vinyl Chloride	ug/l	2.2	1.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2
Xylenes, Total	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	320
TPH																		
#6 Fuel Oil (C10-C32)	mg/l	NQ	<0.1	NQ	<0.1	NQ	<0.1	NQ	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	--
Diesel (C7-C26)	mg/l	NQ	<0.1	NQ	<0.1	NQ	<0.1	NQ	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	--
Hydraulic Fluid (C12-C33)	mg/l	NQ	<0.1	NQ	<0.1	NQ	<0.1	NQ	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	--
Kerosene (C9-C16)	mg/l	NQ	<0.1	NQ	<0.1	NQ	<0.1	NQ	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	--
Mineral Spirits (C7-C14)	mg/l	NQ	<0.1	NQ	<0.1	NQ	<0.1	NQ	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	--
Misc. TPH (C10-C40)	mg/l	NQ	<0.1	NQ	<0.1	NQ	<0.1	NQ	NA	<0.1	NA	NA	NA	NA	NA	NA	0.12	--
Motor Oil (C16-C33)	mg/l	NQ	<0.1	NQ	<0.1	NQ	<0.1	NQ	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	--
TPH (GC/FID) Low Fraction	mg/l	NQ	<0.1	NQ	<0.1	NQ	<0.1	NQ	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	--
TPH (GC/FID) High Fraction	mg/l	<0.1	NQ	<0.1	NQ	<0.1	NQ	<0.1	NA	NQ	NA	NA	NA	NA	NA	NA	NQ	--
Total TPH	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	<0.1	NA	NA	NA	NA	NA	NA	0.12	10
Metals/Inorganics																		
Arsenic	ug/l	<10	<10	<10	<10	<10	<10	<10	NA	<10	NA	NA	NA	NA	NA	NA	NA	50
Arsenic,Dissolved	ug/l	<10	<10	<10	<10	<10	<10	<10	NA	<10	NA	NA	NA	NA	NA	NA	NA	--
Barium	ug/l	350	290	380	360	660	650	440	NA	420	NA	NA	NA	NA	NA	NA	NA	2,000
Barium, Dissolved	ug/l	330	320	360	350	620	620	420	NA	410	NA	NA	NA	NA	NA	NA	NA	--
Cadmium	ug/l	<5	<5	<5	<5	<5	<5	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	5
Cadmium, Dissolved	ug/l	<5	<5	<5	<5	<5	<5	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	--
Chromium	ug/l	14	24	<10	<10	<10	15	<10	NA	<10	NA	NA	NA	NA	NA	NA	NA	100
Chromium, Dissolved	ug/l	12	<10	<10	<10	<10	<10	<10	NA	<10	NA	NA	NA	NA	NA	NA	NA	--
Chromium, Hexavalent	ug/l	15 T	19 T	NQ	NQ	NQ	NQ	NQ	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
Iron	ug/l	1,100	430	NQ	1200	2,300	2300	NQ	NA	600	NA	NA	NA	NA	NA	NA	NA	--
Iron, Dissolved	ug/l	<50	<50	NQ	<50	<50	<50	NQ	NA	<50	NA	NA	NA	NA	NA	NA	NA	--
Lead	ug/l	<5	16	<5	15	<5	26	12	NA	12	NA	NA	NA	NA	NA	NA	NA	15
Lead, Dissolved	ug/l	<5	7.8	<5	7	<5	6	<5	NA	5.6	NA	NA	NA	NA	NA	NA	NA	--
Manganese, Dissolved	ug/l	17	140	NQ	880	<10	<10	NQ	NA	<10	NA	NA	NA	NA	NA	NA	NA	--
Mercury	ug/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	NA	<0.2	NA	NA	NA	NA	NA	NA	NA	2
Mercury, Dissolved	ug/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	NA	<0.2	NA	NA	NA	NA	NA	NA	NA	--

Notes:

< The compound was not detected above this quantitation limit.
NA Not Analyzed.
NQ Not Quantitated
* Environmental Field Investigation, Boeing Tract 1 South, April 16, 2003, MACTEC
-- ITL has not been established.

ug/l micrograms per liter
mg/l milligrams per liter
E Actual value is known to be greater than the upper calibration range.
T Sample received past/too close to holding time expiration.
J Value qualified as an estimate.

Shaded values indicate constituent concentrations which exceed the ITLs.

Table 3
Summary of Laboratory Analysis 2003 Quarterly Groundwater Sampling, Groundwater Monitoring Well Samples to the West of Building 27
Former Boeing Fabrication Operations Facility Tract 1 North

CONSTITUENT	UNITS	MW3		MW3AW		MW3BW		MW7		MW9S		B27W3D		B28MW1			B28MW2	B28MW3	B28MW4		RC6D		RC8D		INVESTIGATION THRESHOLD LEVEL (ITL)*
		Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Jun '03 Dup	Jun '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	
Volatile Organics																									
1,1,2-Trichloro-1,2,2-Trifluorethane	ug/l	NA	3.4 J	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	<1	36 J	<1	NA	7000 EJ	NA	<1	NA	<1	–
1,1,2-Trichloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
1,1-Dichloroethane	ug/l	4.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1	<1	1.6	1.6	<1	<1	<1	<1	1.5	1.1	<1	<1	4,000
1,1-Dichloroethene	ug/l	6.9	12	1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	7.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7
1,2,3-Trimethylbenzene	ug/l	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	NA	3.1	NA	<1	NA	<1	–
1,2,4-Trimethylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.1	2.7	<1	<1	<1	<1	12
1,2-Dichlorobenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	120	120	<1	<1	<1	<1	<1	<1	<1	<1	–
1,4-Dichlorobenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	15	15	<1	<1	<1	<1	<1	<1	<1	<1	–
Benzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	140 E	150	<1	<1	<1	<1	5
Chloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.6
Cis-1,2-Dichloroethene	ug/l	2,700 E	4100	270 E	360 E	15 J	16	<1	1.1	<1	<1	820 E	950 E	1,800 E	30	29	<1	<1	15	35	1.2	<1	13	17	70
Dichlorodifluoromethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.6	<1	<1	700 E	<1	<1	<1	<1	–
Ethylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.8	4.2	<1	<1	<1	<1	700
Isopropyl Benzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.4	4.5	<1	<1	<1	<1	–
Methyl Tert-Butyl Ether	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	930 E	<1	<1	<1	<1	<1	20
Methylene Chloride	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	5
Naphthalene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	100
N-Propylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.8	2.4	<1	<1	<1	<1	61
Tetrachloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	44	46	<1	<1	5.7	6.4	<1	<1	<1	<1	5
Toluene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	18	22	<5	<5	<5	<5	150
Trans-1,2-Dichloroethene	ug/l	53	68	14	18	1.1	1.1	<1	<1	<1	<1	48	83	48	5.5	5.8	<1	<1	230 E	380 E	2.2	1.2	<1	<1	100
Trichloroethene	ug/l	6.4	7.3	220 E	260 E	<1	<1	<1	<1	<1	<1	<1	<1	6.5	12	12	<1	<1	<1	1.5	<1	<1	9.7 J	13	5
Vinyl Chloride	ug/l	2,100 E	1,000	7.1	9.9	7.7	4.2	<1	<1	<1	<1	79	120	1,200	12	13	<1	<1	18	45	2.8	<1	<1	<1	2
Xylenes, Total	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	10	12	<3	<3	<3	<3	320
TPH																									
#6 Fuel Oil (C10-C32)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	–
Diesel (C7-C26)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	–
Hydraulic Fluid (C12-C33)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	–
Kerosene (C9-C16)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	–
Mineral Spirits (C7-C14)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	–
Misc. TPH (C10-C40)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42	0.31	NA	NA	NA	NA	–
Motor Oil (C16-C33)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	–
TPH (GC/FID) Low Fraction	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.46	1	NA	NA	NA	NA	–
Total TPH	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.88	1.31	NA	NA	NA	NA	10
Metals/Inorganics																									
Arsenic	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<10	10	NA	NA	NA	<10	NA	NA	<10	NA	NA	NA	NA	NA	NA	50
Arsenic, Dissolved	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<10	<10	NA	NA	NA	<10	NA	NA	<10	NA	NA	NA	NA	NA	NA	–
Barium	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	2,700	2,600	NA	NA	NA	720	NA	NA	1,300	NA	NA	NA	NA	NA	NA	2,000
Barium, Dissolved	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	3,000 J	2,300	NA	NA	NA	680	NA	NA	1,200	NA	NA	NA	NA	NA	NA	–
Cadmium	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	NA	NA	NA	<5	NA	NA	<5	NA	NA	NA	NA	NA	NA	5
Cadmium, Dissolved	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	NA	NA	NA	<5	NA	NA	<5	NA	NA	NA	NA	NA	NA	–
Chromium	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<10	42	NA	NA	NA	<10	NA	NA	<10	NA	NA	NA	NA	NA	NA	100
Chromium, Dissolved	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<10	<10	NA	NA	NA	<10	NA	NA	<10	NA	NA	NA	NA	NA	NA	–
Iron	ug/l	5,800	5,300 J	69	53 J	11,000	12,000 J	NA	NA	18,000	17,000 J	NA	NA	9,600	1,300 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	–
Iron, Dissolved	ug/l	780	1,100 J	<50	<50	5,400	7,900 J	NA	NA	16,000 J	300	NA	NA	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	–
Lead	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	24	<5	NA	NA	NA	<5	NA	NA	5.3	NA	NA	NA	NA	NA	NA	15
Lead, Dissolved	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	NA	NA	NA	<5	NA	NA	<5	NA	NA	NA	NA	NA	NA	–
Manganese, Dissolved	ug/l	2,000	1,900 J	840	800	5,300	5,200 J	NA	NA	6,400 J	4,900	NA	NA	550	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	–
Mercury	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<0.2	<0.2	NA	NA	NA	<0.2	NA	NA	<0.2	NA	NA	NA	NA	NA	NA	2
Mercury, Dissolved	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<0.2	<0.2	NA	NA	NA	<0.2	NA	NA	<0.2	NA	NA	NA	NA	NA	NA	–

Notes:

< The compound was not detected above this quantitation limit.
NA Not Analyzed.
* Environmental Field Investigation, Boeing Tract 1 South, April 16, 2003, MACTEC
– ITL has not been established.

Shaded values indicate constituent concentrations which exceed the ITLs.

Notes:

ug/l micrograms per liter
mg/l milligrams per liter
J Value qualified as an estimate.
E Actual value is known to be greater than the upper calibration range.

Table 4
Summary of Laboratory Analysis 2003 Quarterly Groundwater Sampling, Groundwater Monitoring Well Samples in the Deep Water Bearing Unit
Former Boeing Fabrication Operations Facility Tract 1 North

CONSTITUENT	UNITS	MW5AD		MW6D			MW8AD		MW9D		MW10D		INVESTIGATION THRESHOLD LEVEL (ITL)*
		Mar '03	Jun'03	Mar '03	Jun'03	Jun'03 Dup	Mar '03	Jun'03	Mar '03	Jun'03	Mar '03	Jun'03	
Volatile Organics													
1,1,2-Trichloro-1,2,2-Trifluorethane	ug/l	NQ	<1	NQ	<1	<1	NQ	<1	NQ	<1	NQ	<1	--
1,1,2-Trichloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
1,1-Dichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7
1,2,3-Trimethylbenzene	ug/l	NQ	<1	NQ	<1	<1	NQ	<1	NQ	<1	NQ	<1	--
1,2,4-Trimethylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	12
Benzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
Chloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.6
Cis-1,2-Dichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	70
Methyl Tert-Butyl Ether	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	20
Methylene Chloride	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Naphthalene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	100
N-Propylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	61
Tetrachloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
Toluene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	150
Trans-1,2-Dichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	100
Trichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
Vinyl Chloride	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2
Xylenes, Total	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	320

Notes:

< The compound was not detected above this quantitation limit.
NQ Not Quantitated
* Environmental Field Investigation, Boeing Tract 1 South, April 16, 2003, MACTEC
ug/l micrograms per liter
-- ITL has not been established.

Table 5
Summary of Laboratory Analysis 2003 Quarterly Groundwater Sampling
Groundwater Monitoring Well Samples to the East of Building 220
Former Boeing Fabrication Operations Facility Tract 1 North

CONSTITUENT	UNITS	MW10S		INVESTIGATION THRESHOLD LEVEL (ITL)*
		Mar '03	Jun '03	
Volatile Organics				
1,1,2-Trichloro-1,2,2-Trifluorethane	ug/l	NQ	<1	--
1,1,2-Trichloroethane	ug/l	<1	<1	5
1,1-Dichloroethane	ug/l	**8.7**	**11**	4,000
1,1-Dichloroethene	ug/l	<1	<1	7
1,2,3-Trimethylbenzene	ug/l	NQ	<1	--
1,2,4-Trimethylbenzene	ug/l	<1	<1	12
Benzene	ug/l	<1	<1	5
Chloroethane	ug/l	<1	<1	4.6
Cis-1,2-Dichloroethene	ug/l	**2.5**	**2.4**	70
Methyl Tert-Butyl Ether	ug/l	<1	<1	20
Methylene Chloride	ug/l	<5	<5	5
Naphthalene	ug/l	<5	<5	100
N-Propylbenzene	ug/l	<1	<1	61
Tetrachloroethene	ug/l	<1	<1	5
Toluene	ug/l	<5	<5	150
Trans-1,2-Dichloroethene	ug/l	<1	<1	100
Trichloroethene	ug/l	<1	<1	5
Vinyl Chloride	ug/l	**2.6**	**1.4**	2
Xylenes, Total	ug/l	<3	<3	320

Notes:

< The compound was not detected above this quantitation limit.
NQ Not Quantitated
* Environmental Field Investigation, Boeing Tract 1 South, April 16, 2003, MACTEC
ug/l micrograms per liter
-- ITL has not been established.

Shaded values indicate constituent concentrations which exceed the ITLs.

Table 6
Summary of Laboratory Analysis 2003 Quarterly Groundwater Sampling for SWMU No. 17
Groundwater Samples (Western Portion of Unit) McDonnell Douglas RFI Tract 1 South

CONSTITUENT	UNITS	MW-5I			MW-6S	MW-7S	TP-2	INVESTIGATION THRESHOLD LEVEL (ITL)*
		Mar '03	Jun '03	Jun '03 Dup	Jun '03	Jun '03	Jun '03	
Volatile Organics								
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	NQ	<1	<1	<1	<500	<500	--
1,1,2-Trichloroethane	ug/l	<500	160	170	<1	<500	<500	5
1,1-Dichloroethene	ug/l	<500	33	36	<1	<500	<500	7
1,2,3-Trimethylbenzene	ug/l	NQ	13	<1	<1	<500	<500	--
1,2,4-Trimethylbenzene	ug/l	<500	21	<1	<1	<500	<500	12
1,2-Dichloroethane	ug/l	<500	3.2	3.6	<1	<500	<500	--
Benzene	ug/l	<500	<1	<1	<1	<500	<500	5
Chloroethane	ug/l	<500	<1	<1	<1	<500	<500	4.6
Cis-1,2-Dichloroethene	ug/l	3,200	3,500	3,600	14	4,000	8,700	70
Methyl Tert-Butyl Ether	ug/l	<500	<1	<1	<1	<500	<500	20
Methylene Chloride	ug/l	<2500	<5	<5	<5	<2500	<2500	5
Naphthalene	ug/l	<2500	43 J	<5	<5	<2500	<2500	100
N-Propylbenzene	ug/l	<500	<1	<1	<1	<500	<500	61
P-Isopropyltoluene	ug/l	<500	1.3	<1	<1	<500	<500	--
Tetrachloroethene	ug/l	<500	72	70	<1	89,000 E	25,000	5
Toluene	ug/l	<2500	<5	<5	<5	<2500	<2500	150
Trans-1,2-Dichloroethene	ug/l	<500	18	20	1.8 J	<500	<500	100
Trichloroethene	ug/l	120,000 E	120,000	110,000	<1	6,200	6,000 J	5
Vinyl Chloride	ug/l	<500	180	210	29	<500	<500	2
Xylenes, Total	ug/l	<1500	3.7	3.6	<3	<1500	<1500	320
TPH								
#6 Fuel Oil (C10-C32)	ug/l	NQ	<100	<100	<100	<100	<100	--
Diesel (C7-C26)	ug/l	NQ	<100	<100	<100	<100	<100	--
Hydraulic Fluid (C12-C33)	ug/l	NQ	<100	<100	<100	<100	<100	--
Kerosene (C9-C16)	ug/l	NQ	<100	<100	<100	<100	<100	--
Mineral Spirits (C7-C14)	ug/l	NQ	<100	<100	<100	<100	<100	--
Misc TPH (C10-C40)	ug/l	NQ	<100	110	540	6,800	2,000	--
Motor Oil (C16-C33)	ug/l	NQ	<100	<100	<100	<100	<100	--
TPH (GC/FID) Low Fraction	ug/l	NQ	<50,000	<50,000	<100	19,000 E	20,000 E	--
TPH (GC/FID) High Fraction	ug/l	140	NQ	NQ	NQ	NQ	NQ	--
Total TPH	ug/l	140	<50,000	110	540	25,800	22,000	10,000

Notes:

< The compound was not detected above this quantitation limit.
* Environmental Field Investigation, Boeing Tract 1 South, April 16, 2003, MACTEC
– ITL has not been established.
J Value qualified as an estimate.
E Actual value is known to be greater than the upper calibration range.
ug/l micrograms per liter
NQ Constituent not quantitated.

Shaded values indicate constituent concentrations which exceed the ITLs.

Table 7

Summary of Laboratory Analysis 2003 Quarterly Groundwater Sampling for SWMU No. 17 Groundwater Samples (Southern Portion of Unit) McDonnell Douglas RFI, Tract 1 South

CONSTITUENT	UNITS	MW-8S			MW-8I		TP-4	TP-26 (B48N1)		INVESTIGATION THRESHOLD LEVEL (ITL)*
		Mar '03	Mar '03 Dup	Jun '03	Mar '03	Jun '03	Jun '03	Mar '03	Jun '03	
Volatile Organics										
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	NQ	NQ	<1	NQ	<1	<1	NQ	<1	--
1,1,2-Trichloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	5
1,1-Dichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	7
1,2,3-Trimethylbenzene	ug/l	NQ	NQ	<1	NQ	<1	<1	NQ	<1	--
1,2,4-Trimethylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	12
Benzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	5
Chloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	4.6
Cis-1,2-Dichloroethene	ug/l	<1	<1	2	<1	<1	190	30	59	70
Methyl Tert-Butyl Ether	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	20
Methylene Chloride	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	5
Naphthalene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	100
N-Propylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	61
Tetrachloroethene	ug/l	1.8	2.2	32	<1	<1	2,700 E	13	27	5
Toluene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	150
Trans-1,2-Dichloroethene	ug/l	<1	<1	<1	<1	<1	1.1	<1	<1	100
Trichloroethene	ug/l	<1	<1	1.6 J	<1	<1	160	2.8	6.7	5
Trichlorofluoromethane	ug/l	<1	<1	<1	<1	<1	2.5	<1	<1	1,300
Vinyl Chloride	ug/l	<1	<1	<1	<1	<1	5.3	<1	<1	2
Xylenes, Total	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	320
TPH										
#6 Fuel Oil (C10-C32)	ug/l	NQ	NA	<100	NQ	<100	<100	NQ	<100	--
Diesel (C7-C26)	ug/l	NQ	NA	<100	NQ	<100	<100	NQ	<100	--
Hydraulic Fluid (C12-C33)	ug/l	NQ	NA	<100	NQ	<100	<100	NQ	<100	--
Kerosene (C9-C16)	ug/l	NQ	NA	<100	NQ	<100	<100	NQ	<100	--
Mineral Spirits (C7-C14)	ug/l	NQ	NA	<100	NQ	<100	<100	NQ	<100	--
Misc TPH (C10-C40)	ug/l	NQ	NA	<100	NQ	<100	130	NQ	170 J	--
Motor Oil (C16-C33)	ug/l	NQ	NA	<100	NQ	<100	<100	NQ	<100	--
TPH (GC/FID) Low Fraction	ug/l	NQ	NA	<100	NQ	<100	1,600	NQ	<100	--
TPH (GC/FID) High Fraction	ug/l	130	NA	NQ	<100	NQ	NQ	480	NQ	--
Total TPH	ug/l	130	NA	<100	<100	<100	1,730	480	170	10,000

Notes:

< The compound was not detected above this quantitation limit.

* Environmental Field Investigation, Boeing Tract 1 South, April 16, 2003, MACTEC

-- ITL has not been established.

NA Constituent not analyzed.

NQ Constituent not quantitated.

ug/l micrograms per liter

Shaded values indicate constituent concentrations which exceed the ITLs.

Table 8
Summary of Laboratory Analysis 2003 Quarterly Groundwater Sampling for SWMU No. 17 Groundwater Samples (Eastern Portion of Unit) McDonnell Douglas RFI, Tract 1 South

CONSTITUENT	UNITS	MW-9S			MW-10S	MW-11S		MW-11I				MW-11D			TP-3		TP-6		INVESTIGATION THRESHOLD LEVEL (ITL)*
		Mar '03	Mar '03 Dup	Jun '03	Jun '03	Mar '03	Jun '03	Mar '03	Mar '03 Dup	Jun '03	Jun '03 Dup	Mar '03	Jun '03	Jun '03 Dup	Mar '03	Jun '03	Mar '03	Jun '03	
Volatile Organics																			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	NQ	NQ	<1	<1	NQ	<1	NQ	NQ	<1	<1	NQ	<1	<1	NQ	<1	NQ	<1	--
1,1,2-Trichloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
1,1-Dichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7
1,2,3-Trimethylbenzene	ug/l	NQ	NQ	<1	<1	NQ	28	NQ	NQ	<1	<1	NQ	<1	<1	NQ	<1	NQ	<1	--
1,2,4-Trimethylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	12
Benzene	ug/l	4.6	5.1	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
Bromomethane	ug/l	<1	<1	<1	<1	<1	<1	1.2 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3,900
Chloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.6
Cis-1,2-Dichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.8	<1	<1	<1	<1	<1	70
Isopropyl Benzene	ug/l	2.7	3	2.3	<1	<1	2.6	<1	<1	<1	<1	<1	<1	<1	<1	3.2	<1	<1	--
Methyl Tert-Butyl Ether	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	20
Methylene Chloride	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Naphthalene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	100
N-Butylbenzene	ug/l	1.5	1.8	2	<1	<1	13	<1	<1	<1	<1	<1	<1	<1	<1	5.6	1	<1	61
N-Propylbenzene	ug/l	2.9	3.4	2.9	<1	<1	3.6	<1	<1	<1	<1	<1	<1	<1	<1	2.9	<1	<1	61
P-Isopropyltoluene	ug/l	1.8	1.9	<1	<1	<1	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	1	--
Sec-Butylbenzene	ug/l	2.2	2.4	1.5	<1	<1	6.8	<1	<1	<1	<1	<1	<1	<1	<1	4.6	1.3	1	61
Tetrachloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	35	<1	<1	<1	<1	<1	5
Toluene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	150
Trans-1,2-Dichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	100
Trichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.1	<1	<1	<1	<1	<1	5
Vinyl Chloride	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2
Xylenes, Total	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	320
TPH																			
#6 Fuel Oil (C10-C32)	ug/l	NQ	NQ	<100	<1000	NQ	<100	NQ	NA	<100	<100	NQ	<100	<100	NQ	<100	NQ	<100	--
Diesel (C7-C26)	ug/l	NQ	NQ	<100	48,000	NQ	<100	NQ	NA	<100	<100	NQ	<100	<100	NQ	<100	NQ	<100	--
Hydraulic Fluid (C12-C33)	ug/l	NQ	NQ	<100	<1000	NQ	<100	NQ	NA	<100	<100	NQ	<100	<100	NQ	<100	NQ	<100	--
Kerosene (C9-C16)	ug/l	NQ	NQ	<100	<1000	NQ	<100	NQ	NA	<100	<100	NQ	<100	<100	NQ	<100	NQ	<100	--
Mineral Spirits (C7-C14)	ug/l	NQ	NQ	<100	<1000	NQ	<100	NQ	NA	<100	<100	NQ	<100	<100	NQ	<100	NQ	<100	--
Misc TPH (C10-C40)	ug/l	NQ	NQ	2,000 J	<1000	NQ	<100	NQ	NA	<100	<100	NQ	<100	120	NQ	5,900 J	NQ	1,300	--
Motor Oil (C16-C33)	ug/l	NQ	NQ	<100	<1000	NQ	<100	NQ	NA	<100	<100	NQ	<100	<100	NQ	<100	NQ	<100	--
TPH (GC/FID) Low Fraction	ug/l	NQ	NQ	<100	<100	NQ	1,400	NQ	NA	<100	<100	NQ	<100	<100	NQ	420	NQ	<100	--
TPH (GC/FID) High Fraction	ug/l	6,400	6,200	NQ	NQ	<100	NQ	<100	NA	NQ	NQ	<100	NQ	NQ	13,000	NQ	1,600	NQ	--
Total TPH	ug/l	6,400	6,200	2,000	48,000	<100	1,400	<100	NA	<100	<100	<100	<100	120	13,000	6,320	1,600	1,300	10,000

Notes:

< The compound was not detected above this quantitation limit.
* Environmental Field Investigation, Boeing Tract 1 South, April 16, 2003, MACTEC
-- ITL has not been established.
J Value qualified as an estimate.

ug/l micrograms per liter
NA Constituent not analyzed.
NQ Constituent not quantitated.

Shaded values indicate constituent concentrations which exceed the ITLs.

Quarterly Progress Report for Second Quarter 2003

Description of the work completed

Submitted a statement of work in response to MDNR comments to the Environmental Field Investigation Report for Tract I South.

Submitted a summary report on the HRC pilot project at the former fabrication operations facility.

Met with MDNR and St. Louis Airport representatives on June 16and 18 to discuss additional investigation to finalize the RFI.

Received comments from MDNR on June 26 on additional investigation required to complete the RFI.

Submitted a revised statement of work as requested on June 27.

Began field investigation on June 30 as outlined in the submitted revised statement of work.

Summary of all findings

Second quarter ground water sampling results are attached.

Summary of all problems or potential problems and actions taken to rectify problems

None

Projected work for the next reporting period

Continue quarterly monitoring well sampling.

Instances of noncompliance with the corrective actions of the permit

None

Table 1
Summary of 2003 Quarterly Groundwater Sampling
Detected Concentrations for Background Groundwater Monitoring Well Samples
Former Boeing Fabrication Operations

CONSTITUENT	UNITS	MW1	MW2	MW4	INVESTIGATION THRESHOLD LEVEL (ITL)*
		Jun '03	Jun '03	Jun '03	
Volatile Organics					
1,1,2-Trichloro-1,2,2-Trifluorethane	ug/l	<1	<1	<1	--
1,1,2-Trichloroethane	ug/l	<1	<1	<1	5
1,1-Dichloroethene	ug/l	<1	<1	<1	7
1,2,3-Trimethylbenzene	ug/l	<1	<1	<1	--
1,2,4-Trimethylbenzene	ug/l	<1	<1	<1	12
Benzene	ug/l	**7.2**	**3.5**	<1	5
Chloroethane	ug/l	<1	<1	<1	4.6
Cis-1,2-Dichloroethene	ug/l	<1	**1.4**	<1	70
Methyl Tert-Butyl Ether	ug/l	<1	<1	<1	20
Methylene Chloride	ug/l	<5	<5	<5	5
Naphthalene	ug/l	<5	<5	<5	100
N-Propylbenzene	ug/l	<1	<1	<1	61
Tetrachloroethene	ug/l	<1	<1	<1	5
Toluene	ug/l	<5	<5	<5	150
Trans-1,2-Dichloroethene	ug/l	<1	<1	<1	100
Trichloroethene	ug/l	<1	<1	<1	5
Vinyl Chloride	ug/l	<1	<1	<1	2
Xylenes, Total	ug/l	<3	<3	<3	320

Notes:

< The compound was not detected above this quantitation limit.
* Remedial Action Plan, February 7, 2001, Harding ESE, Inc.
-- ITL has not been established.
ug/l micrograms per liter
Shaded values indicate constituent concentrations which exceed the ITLs.

Table 2
Summary of Laboratory Analysis 2003 Quarterly Groundwater Sampling, Groundwater Monitoring Well Samples to the East of Building 27
Former Boeing Fabrication Operations Facility Tract 1 North

CONSTITUENT	UNITS	MW5AS		MW5B		MW5C		MW5D			MW6S		MW8		MW8AS		B25MW1	INVESTIGATION THRESHOLD LEVEL (ITL)*
		Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Mar '03 Dup	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Jun '03	
Volatile Organics																		
1,1,2-Trichloro-1,2,2-Trifluorethane	ug/l	NQ	<1	NQ	<1	NQ	<1	NQ	NQ	<1	NQ	<1	NQ	<1	NQ	<1	<1	--
1,1,2-Trichloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
1,1-Dichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7
1,2,3-Trimethylbenzene	ug/l	NQ	<1	NQ	<1	NQ	<1	NQ	NQ	<1	NQ	<1	NQ	<1	NQ	<1	<1	--
1,2,4-Trimethylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	12
Benzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.6	<1	1.9	<1	5
Chloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.6
Cis-1,2-Dichloroethene	ug/l	140 E	160 E	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	2.8	<1	<1	<1	70
Methyl Tert-Butyl Ether	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	20
Methylene Chloride	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Naphthalene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	100
N-Propylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	61
Tetrachloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	7.4	12 J	<1	<1	<1	<1	<1	5
Toluene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	150
Trans-1,2-Dichloroethene	ug/l	4	4.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	100
Trichloroethene	ug/l	280 E	320 E	<1	<1	<1	<1	<1	<1	<1	2.5	2.4 J	<1	<1	<1	<1	<1	5
Vinyl Chloride	ug/l	2.2	1.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2
Xylenes, Total	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	320
TPH																		
#6 Fuel Oil (C10-C32)	mg/l	NQ	<0.1	NQ	<0.1	NQ	<0.1	NQ	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	--
Diesel (C7-C26)	mg/l	NQ	<0.1	NQ	<0.1	NQ	<0.1	NQ	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	--
Hydraulic Fluid (C12-C33)	mg/l	NQ	<0.1	NQ	<0.1	NQ	<0.1	NQ	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	--
Kerosene (C9-C16)	mg/l	NQ	<0.1	NQ	<0.1	NQ	<0.1	NQ	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	--
Mineral Spirits (C7-C14)	mg/l	NQ	<0.1	NQ	<0.1	NQ	<0.1	NQ	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	--
Misc. TPH (C10-C40)	mg/l	NQ	<0.1	NQ	<0.1	NQ	<0.1	NQ	NA	<0.1	NA	NA	NA	NA	NA	NA	0.12	--
Motor Oil (C16-C33)	mg/l	NQ	<0.1	NQ	<0.1	NQ	<0.1	NQ	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	--
TPH (GC/FID) Low Fraction	mg/l	NQ	<0.1	NQ	<0.1	NQ	<0.1	NQ	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	--
TPH (GC/FID) High Fraction	mg/l	<0.1	NQ	<0.1	NQ	<0.1	NQ	<0.1	NA	NQ	NA	NA	NA	NA	NA	NA	NQ	--
Total TPH	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	<0.1	NA	NA	NA	NA	NA	NA	0.12	10
Metals/Inorganics																		
Arsenic	ug/l	<10	<10	<10	<10	<10	<10	<10	NA	<10	NA	NA	NA	NA	NA	NA	NA	50
Arsenic,Dissolved	ug/l	<10	<10	<10	<10	<10	<10	<10	NA	<10	NA	NA	NA	NA	NA	NA	NA	--
Barium	ug/l	350	290	380	360	660	650	440	NA	420	NA	NA	NA	NA	NA	NA	NA	2,000
Barium, Dissolved	ug/l	330	320	360	350	620	620	420	NA	410	NA	NA	NA	NA	NA	NA	NA	--
Cadmium	ug/l	<5	<5	<5	<5	<5	<5	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	5
Cadmium, Dissolved	ug/l	<5	<5	<5	<5	<5	<5	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	--
Chromium	ug/l	14	24	<10	<10	<10	15	<10	NA	<10	NA	NA	NA	NA	NA	NA	NA	100
Chromium, Dissolved	ug/l	12	<10	<10	<10	<10	<10	<10	NA	<10	NA	NA	NA	NA	NA	NA	NA	--
Chromium, Hexavalent	ug/l	15 T	19 T	NQ	NQ	NQ	NQ	NQ	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
Iron	ug/l	1,100	430	NQ	1200	2,300	2300	NQ	NA	600	NA	NA	NA	NA	NA	NA	NA	--
Iron, Dissolved	ug/l	<50	<50	NQ	<50	<50	<50	NQ	NA	<50	NA	NA	NA	NA	NA	NA	NA	--
Lead	ug/l	<5	16	<5	15	<5	26	12	NA	12	NA	NA	NA	NA	NA	NA	NA	15
Lead, Dissolved	ug/l	<5	7.8	<5	7	<5	6	<5	NA	5.6	NA	NA	NA	NA	NA	NA	NA	--
Manganese, Dissolved	ug/l	17	140	NQ	880	<10	<10	NQ	NA	<10	NA	NA	NA	NA	NA	NA	NA	--
Mercury	ug/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	NA	<0.2	NA	NA	NA	NA	NA	NA	NA	2
Mercury, Dissolved	ug/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	NA	<0.2	NA	NA	NA	NA	NA	NA	NA	--

Notes:

< The compound was not detected above this quantitation limit.
NA Not Analyzed.
NQ Not Quantitated
* Environmental Field Investigation, Boeing Tract 1 South, April 16, 2003, MACTEC
-- ITL has not been established.

ug/l micrograms per liter
mg/l milligrams per liter
E Actual value is known to be greater than the upper calibration range.
T Sample received past/too close to holding time expiration.
J Value qualified as an estimate.

Shaded values indicate constituent concentrations which exceed the ITLs.

Table 3
Summary of Laboratory Analysis 2003 Quarterly Groundwater Sampling, Groundwater Monitoring Well Samples to the West of Building 27
Former Boeing Fabrication Operations Facility Tract 1 North

CONSTITUENT	UNITS	MW3		MW3AW		MW3BW		MW7		MW9S		B27W3D		B28MW1			B28MW2	B28MW3	B28MW4		RC6D		RC8D		INVESTIGATION THRESHOLD LEVEL (ITL)*
		Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Jun '03 Dup	Jun '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	Mar '03	Jun '03	
Volatile Organics																									
1,1,2-Trichloro-1,2,2-Trifluorethane	ug/l	NA	3.4 J	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	<1	36 J	<1	NA	7000 EJ	NA	<1	NA	<1	–
1,1,2-Trichloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
1,1-Dichloroethane	ug/l	4.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1	<1	1.6	1.6	<1	<1	<1	<1	1.5	1.1	<1	<1	4,000
1,1-Dichloroethene	ug/l	6.9	12	1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	7.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7
1,2,3-Trimethylbenzene	ug/l	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	<1	<1	<1	NA	3.1	NA	<1	NA	<1	–
1,2,4-Trimethylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.1	2.7	<1	<1	<1	<1	12
1,2-Dichlorobenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	120	120	<1	<1	<1	<1	<1	<1	<1	<1	–
1,4-Dichlorobenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	15	15	<1	<1	<1	<1	<1	<1	<1	<1	–
Benzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	140 E	150	<1	<1	<1	<1	5
Chloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.6
Cis-1,2-Dichloroethene	ug/l	2,700 E	4100	270 E	360 E	15 J	16	<1	1.1	<1	<1	820 E	950 E	1,800 E	30	29	<1	<1	15	35	1.2	<1	13	17	70
Dichlorodifluoromethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.6	<1	<1	700 E	<1	<1	<1	<1	–
Ethylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.8	4.2	<1	<1	<1	<1	700
Isopropyl Benzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.4	4.5	<1	<1	<1	<1	–
Methyl Tert-Butyl Ether	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	930 E	<1	<1	<1	<1	<1	20
Methylene Chloride	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	5
Naphthalene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	100
N-Propylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.8	2.4	<1	<1	<1	<1	61
Tetrachloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	44	46	<1	<1	5.7	6.4	<1	<1	<1	<1	5
Toluene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	18	22	<5	<5	<5	<5	150
Trans-1,2-Dichloroethene	ug/l	53	68	14	18	1.1	1.1	<1	<1	<1	<1	48	83	48	5.5	5.8	<1	<1	230 E	380 E	2.2	1.2	<1	<1	100
Trichloroethene	ug/l	6.4	7.3	220 E	260 E	<1	<1	<1	<1	<1	<1	<1	<1	6.5	12	12	<1	<1	<1	1.5	<1	<1	9.7 J	13	5
Vinyl Chloride	ug/l	2,100 E	1,000	7.1	9.9	7.7	4.2	<1	<1	<1	<1	79	120	1,200	12	13	<1	<1	18	45	2.8	<1	<1	<1	2
Xylenes, Total	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	10	12	<3	<3	<3	<3	320
TPH																									
#6 Fuel Oil (C10-C32)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	–
Diesel (C7-C26)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	–
Hydraulic Fluid (C12-C33)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	–
Kerosene (C9-C16)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	–
Mineral Spirits (C7-C14)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	–
Misc. TPH (C10-C40)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42	0.31	NA	NA	NA	NA	–
Motor Oil (C16-C33)	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	–
TPH (GC/FID) Low Fraction	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.46	1	NA	NA	NA	NA	–
Total TPH	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.88	1.31	NA	NA	NA	NA	10
Metals/Inorganics																									
Arsenic	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<10	10	NA	NA	NA	<10	NA	NA	<10	NA	NA	NA	NA	NA	NA	50
Arsenic, Dissolved	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<10	<10	NA	NA	NA	<10	NA	NA	<10	NA	NA	NA	NA	NA	NA	–
Barium	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	2,700	2,600	NA	NA	NA	720	NA	NA	1,300	NA	NA	NA	NA	NA	NA	2,000
Barium, Dissolved	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	3,000 J	2,300	NA	NA	NA	680	NA	NA	1,200	NA	NA	NA	NA	NA	NA	–
Cadmium	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	NA	NA	NA	<5	NA	NA	<5	NA	NA	NA	NA	NA	NA	5
Cadmium, Dissolved	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	NA	NA	NA	<5	NA	NA	<5	NA	NA	NA	NA	NA	NA	–
Chromium	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<10	42	NA	NA	NA	<10	NA	NA	<10	NA	NA	NA	NA	NA	NA	100
Chromium, Dissolved	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<10	<10	NA	NA	NA	<10	NA	NA	<10	NA	NA	NA	NA	NA	NA	–
Iron	ug/l	5,800	5,300 J	69	53 J	11,000	12,000 J	NA	NA	18,000	17,000 J	NA	NA	9,600	1,300 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	–
Iron, Dissolved	ug/l	780	1,100 J	<50	<50	5,400	7,900 J	NA	NA	16,000 J	300	NA	NA	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	–
Lead	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	24	<5	NA	NA	NA	<5	NA	NA	5.3	NA	NA	NA	NA	NA	NA	15
Lead, Dissolved	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	NA	NA	NA	<5	NA	NA	<5	NA	NA	NA	NA	NA	NA	–
Manganese, Dissolved	ug/l	2,000	1,900 J	840	800	5,300	5,200 J	NA	NA	6,400 J	4,900	NA	NA	550	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	–
Mercury	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<0.2	<0.2	NA	NA	NA	<0.2	NA	NA	<0.2	NA	NA	NA	NA	NA	NA	2
Mercury, Dissolved	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<0.2	<0.2	NA	NA	NA	<0.2	NA	NA	<0.2	NA	NA	NA	NA	NA	NA	–

Notes:

< The compound was not detected above this quantitation limit.
NA Not Analyzed.
* Environmental Field Investigation, Boeing Tract 1 South, April 16, 2003, MACTEC
-- ITL has not been established.

Shaded values indicate constituent concentrations which exceed the ITLs.

Notes:

ug/l micrograms per liter
mg/l milligrams per liter
J Value qualified as an estimate.
E Actual value is known to be greater than the upper calibration range.

Table 4
Summary of Laboratory Analysis 2003 Quarterly Groundwater Sampling, Groundwater Monitoring Well Samples in the Deep Water Bearing Unit
Former Boeing Fabrication Operations Facility Tract 1 North

CONSTITUENT	UNITS	MW5AD		MW6D			MW8AD		MW9D		MW10D		INVESTIGATION THRESHOLD LEVEL (ITL)*
		Mar '03	Jun'03	Mar '03	Jun'03	Jun'03 Dup	Mar '03	Jun'03	Mar '03	Jun'03	Mar '03	Jun'03	
Volatile Organics													
1,1,2-Trichloro-1,2,2-Trifluorethane	ug/l	NQ	<1	NQ	<1	<1	NQ	<1	NQ	<1	NQ	<1	--
1,1,2-Trichloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
1,1-Dichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7
1,2,3-Trimethylbenzene	ug/l	NQ	<1	NQ	<1	<1	NQ	<1	NQ	<1	NQ	<1	--
1,2,4-Trimethylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	12
Benzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
Chloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.6
Cis-1,2-Dichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	70
Methyl Tert-Butyl Ether	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	20
Methylene Chloride	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Naphthalene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	100
N-Propylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	61
Tetrachloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
Toluene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	150
Trans-1,2-Dichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	100
Trichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
Vinyl Chloride	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2
Xylenes, Total	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	320

Notes:

< The compound was not detected above this quantitation limit.
NQ Not Quantitated
* Environmental Field Investigation, Boeing Tract 1 South, April 16, 2003, MACTEC
ug/l micrograms per liter
-- ITL has not been established.

Table 5
Summary of Laboratory Analysis 2003 Quarterly Groundwater Sampling
Groundwater Monitoring Well Samples to the East of Building 220
Former Boeing Fabrication Operations Facility Tract 1 North

CONSTITUENT	UNITS	MW10S		INVESTIGATION THRESHOLD LEVEL (ITL)*
		Mar '03	Jun '03	
Volatile Organics				
1,1,2-Trichloro-1,2,2-Trifluorethane	ug/l	NQ	<1	--
1,1,2-Trichloroethane	ug/l	<1	<1	5
1,1-Dichloroethane	ug/l	**8.7**	**11**	4,000
1,1-Dichloroethene	ug/l	<1	<1	7
1,2,3-Trimethylbenzene	ug/l	NQ	<1	--
1,2,4-Trimethylbenzene	ug/l	<1	<1	12
Benzene	ug/l	<1	<1	5
Chloroethane	ug/l	<1	<1	4.6
Cis-1,2-Dichloroethene	ug/l	**2.5**	**2.4**	70
Methyl Tert-Butyl Ether	ug/l	<1	<1	20
Methylene Chloride	ug/l	<5	<5	5
Naphthalene	ug/l	<5	<5	100
N-Propylbenzene	ug/l	<1	<1	61
Tetrachloroethene	ug/l	<1	<1	5
Toluene	ug/l	<5	<5	150
Trans-1,2-Dichloroethene	ug/l	<1	<1	100
Trichloroethene	ug/l	<1	<1	5
Vinyl Chloride	ug/l	**2.6**	**1.4**	2
Xylenes, Total	ug/l	<3	<3	320

Notes:

< The compound was not detected above this quantitation limit.
NQ Not Quantitated
* Environmental Field Investigation, Boeing Tract 1 South, April 16, 2003, MACTEC
ug/l micrograms per liter
-- ITL has not been established.

Shaded values indicate constituent concentrations which exceed the ITLs.

Table 6
Summary of Laboratory Analysis 2003 Quarterly Groundwater Sampling for SWMU No. 17
Groundwater Samples (Western Portion of Unit) McDonnell Douglas RFI Tract 1 South

CONSTITUENT	UNITS	MW-5I			MW-6S	MW-7S	TP-2	INVESTIGATION THRESHOLD LEVEL (ITL)*
		Mar '03	Jun '03	Jun '03 Dup	Jun '03	Jun '03	Jun '03	
Volatile Organics								
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	NQ	<1	<1	<1	<500	<500	--
1,1,2-Trichloroethane	ug/l	<500	**160**	**170**	<1	<500	<500	5
1,1-Dichloroethene	ug/l	<500	**33**	**36**	<1	<500	<500	7
1,2,3-Trimethylbenzene	ug/l	NQ	**13**	<1	<1	<500	<500	--
1,2,4-Trimethylbenzene	ug/l	<500	**21**	<1	<1	<500	<500	12
1,2-Dichloroethane	ug/l	<500	**3.2**	**3.6**	<1	<500	<500	--
Benzene	ug/l	<500	<1	<1	<1	<500	<500	5
Chloroethane	ug/l	<500	<1	<1	<1	<500	<500	4.6
Cis-1,2-Dichloroethene	ug/l	**3,200**	**3,500**	**3,600**	**14**	**4,000**	**8,700**	70
Methyl Tert-Butyl Ether	ug/l	<500	<1	<1	<1	<500	<500	20
Methylene Chloride	ug/l	<2500	<5	<5	<5	<2500	<2500	5
Naphthalene	ug/l	<2500	**43 J**	<5	<5	<2500	<2500	100
N-Propylbenzene	ug/l	<500	<1	<1	<1	<500	<500	61
P-Isopropyltoluene	ug/l	<500	**1.3**	<1	<1	<500	<500	--
Tetrachloroethene	ug/l	<500	**72**	**70**	<1	**89,000 E**	**25,000**	5
Toluene	ug/l	<2500	<5	<5	<5	<2500	<2500	150
Trans-1,2-Dichloroethene	ug/l	<500	**18**	**20**	**1.8 J**	<500	<500	100
Trichloroethene	ug/l	**120,000 E**	**120,000**	**110,000**	<1	**6,200**	**6,000 J**	5
Vinyl Chloride	ug/l	<500	**180**	**210**	**29**	<500	<500	2
Xylenes, Total	ug/l	<1500	**3.7**	**3.6**	<3	<1500	<1500	320
TPH								
#6 Fuel Oil (C10-C32)	ug/l	NQ	<100	<100	<100	<100	<100	--
Diesel (C7-C26)	ug/l	NQ	<100	<100	<100	<100	<100	--
Hydraulic Fluid (C12-C33)	ug/l	NQ	<100	<100	<100	<100	<100	--
Kerosene (C9-C16)	ug/l	NQ	<100	<100	<100	<100	<100	--
Mineral Spirits (C7-C14)	ug/l	NQ	<100	<100	<100	<100	<100	--
Misc TPH (C10-C40)	ug/l	NQ	<100	**110**	**540**	**6,800**	**2,000**	--
Motor Oil (C16-C33)	ug/l	NQ	<100	<100	<100	<100	<100	--
TPH (GC/FID) Low Fraction	ug/l	NQ	<50,000	<50,000	<100	**19,000 E**	**20,000 E**	--
TPH (GC/FID) High Fraction	ug/l	**140**	NQ	NQ	NQ	NQ	NQ	--
Total TPH	ug/l	**140**	<50,000	**110**	**540**	**25,800**	**22,000**	10,000

Notes:

< The compound was not detected above this quantitation limit.
* Environmental Field Investigation, Boeing Tract 1 South, April 16, 2003, MACTEC
– ITL has not been established.
J Value qualified as an estimate.
E Actual value is known to be greater than the upper calibration range.
ug/l micrograms per liter
NQ Constituent not quantitated.

Shaded values indicate constituent concentrations which exceed the ITLs.

Table 7

Summary of Laboratory Analysis 2003 Quarterly Groundwater Sampling for SWMU No. 17 Groundwater Samples (Southern Portion of Unit) McDonnell Douglas RFI, Tract 1 South

CONSTITUENT	UNITS	MW-8S			MW-8I		TP-4	TP-26 (B48N1)		INVESTIGATION THRESHOLD LEVEL (ITL)*
		Mar '03	Mar '03 Dup	Jun '03	Mar '03	Jun '03	Jun '03	Mar '03	Jun '03	
Volatile Organics										
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	NQ	NQ	<1	NQ	<1	<1	NQ	<1	--
1,1,2-Trichloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	5
1,1-Dichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	7
1,2,3-Trimethylbenzene	ug/l	NQ	NQ	<1	NQ	<1	<1	NQ	<1	--
1,2,4-Trimethylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	12
Benzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	5
Chloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	4.6
Cis-1,2-Dichloroethene	ug/l	<1	<1	**2**	<1	<1	**190**	**30**	**59**	70
Methyl Tert-Butyl Ether	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	20
Methylene Chloride	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	5
Naphthalene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	100
N-Propylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	61
Tetrachloroethene	ug/l	**1.8**	**2.2**	**32**	<1	<1	**2,700 E**	**13**	**27**	5
Toluene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	150
Trans-1,2-Dichloroethene	ug/l	<1	<1	<1	<1	<1	**1.1**	<1	<1	100
Trichloroethene	ug/l	<1	<1	**1.6 J**	<1	<1	**160**	2.8	**6.7**	5
Trichlorofluoromethane	ug/l	<1	<1	<1	<1	<1	**2.5**	<1	<1	1,300
Vinyl Chloride	ug/l	<1	<1	<1	<1	<1	**5.3**	<1	<1	2
Xylenes, Total	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	320
TPH										
#6 Fuel Oil (C10-C32)	ug/l	NQ	NA	<100	NQ	<100	<100	NQ	<100	--
Diesel (C7-C26)	ug/l	NQ	NA	<100	NQ	<100	<100	NQ	<100	--
Hydraulic Fluid (C12-C33)	ug/l	NQ	NA	<100	NQ	<100	<100	NQ	<100	--
Kerosene (C9-C16)	ug/l	NQ	NA	<100	NQ	<100	<100	NQ	<100	--
Mineral Spirits (C7-C14)	ug/l	NQ	NA	<100	NQ	<100	<100	NQ	<100	--
Misc TPH (C10-C40)	ug/l	NQ	NA	<100	NQ	<100	**130**	NQ	**170 J**	--
Motor Oil (C16-C33)	ug/l	NQ	NA	<100	NQ	<100	<100	NQ	<100	--
TPH (GC/FID) Low Fraction	ug/l	NQ	NA	<100	NQ	<100	**1,600**	NQ	<100	--
TPH (GC/FID) High Fraction	ug/l	**130**	NA	NQ	<100	NQ	NQ	**480**	NQ	--
Total TPH	ug/l	**130**	NA	<100	<100	<100	**1,730**	**480**	**170**	10,000

Notes:

< The compound was not detected above this quantitation limit.

* Environmental Field Investigation, Boeing Tract 1 South, April 16, 2003, MACTEC

-- ITL has not been established.

NA Constituent not analyzed.

NQ Constituent not quantitated.

ug/l micrograms per liter

Shaded values indicate constituent concentrations which exceed the ITLs.

Table 8
Summary of Laboratory Analysis 2003 Quarterly Groundwater Sampling for SWMU No. 17 Groundwater Samples (Eastern Portion of Unit) McDonnell Douglas RFI, Tract 1 South

CONSTITUENT	UNITS	MW-9S			MW-10S	MW-11S		MW-11I				MW-11D			TP-3		TP-6		INVESTIGATION THRESHOLD LEVEL (ITL)*
		Mar '03	Mar '03 Dup	Jun '03	Jun '03	Mar '03	Jun '03	Mar '03	Mar '03 Dup	Jun '03	Jun '03 Dup	Mar '03	Jun '03	Jun '03 Dup	Mar '03	Jun '03	Mar '03	Jun '03	
Volatile Organics																			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	NQ	NQ	<1	<1	NQ	<1	NQ	NQ	<1	<1	NQ	<1	<1	NQ	<1	NQ	<1	--
1,1,2-Trichloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
1,1-Dichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7
1,2,3-Trimethylbenzene	ug/l	NQ	NQ	<1	<1	NQ	28	NQ	NQ	<1	<1	NQ	<1	<1	NQ	<1	NQ	<1	--
1,2,4-Trimethylbenzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	12
Benzene	ug/l	4.6	5.1	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5
Bromomethane	ug/l	<1	<1	<1	<1	<1	<1	1.2 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3,900
Chloroethane	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.6
Cis-1,2-Dichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.8	<1	<1	<1	<1	<1	70
Isopropyl Benzene	ug/l	2.7	3	2.3	<1	<1	2.6	<1	<1	<1	<1	<1	<1	<1	<1	3.2	<1	<1	--
Methyl Tert-Butyl Ether	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	20
Methylene Chloride	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5
Naphthalene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	100
N-Butylbenzene	ug/l	1.5	1.8	2	<1	<1	13	<1	<1	<1	<1	<1	<1	<1	<1	5.6	1	<1	61
N-Propylbenzene	ug/l	2.9	3.4	2.9	<1	<1	3.6	<1	<1	<1	<1	<1	<1	<1	<1	2.9	<1	<1	61
P-Isopropyltoluene	ug/l	1.8	1.9	<1	<1	<1	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	1	--
Sec-Butylbenzene	ug/l	2.2	2.4	1.5	<1	<1	6.8	<1	<1	<1	<1	<1	<1	<1	<1	4.6	1.3	1	61
Tetrachloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	35	<1	<1	<1	<1	<1	5
Toluene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	150
Trans-1,2-Dichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	100
Trichloroethene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.1	<1	<1	<1	<1	<1	5
Vinyl Chloride	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2
Xylenes, Total	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	320
TPH																			
#6 Fuel Oil (C10-C32)	ug/l	NQ	NQ	<100	<1000	NQ	<100	NQ	NA	<100	<100	NQ	<100	<100	NQ	<100	NQ	<100	--
Diesel (C7-C26)	ug/l	NQ	NQ	<100	48,000	NQ	<100	NQ	NA	<100	<100	NQ	<100	<100	NQ	<100	NQ	<100	--
Hydraulic Fluid (C12-C33)	ug/l	NQ	NQ	<100	<1000	NQ	<100	NQ	NA	<100	<100	NQ	<100	<100	NQ	<100	NQ	<100	--
Kerosene (C9-C16)	ug/l	NQ	NQ	<100	<1000	NQ	<100	NQ	NA	<100	<100	NQ	<100	<100	NQ	<100	NQ	<100	--
Mineral Spirits (C7-C14)	ug/l	NQ	NQ	<100	<1000	NQ	<100	NQ	NA	<100	<100	NQ	<100	<100	NQ	<100	NQ	<100	--
Misc TPH (C10-C40)	ug/l	NQ	NQ	2,000 J	<1000	NQ	<100	NQ	NA	<100	<100	NQ	<100	120	NQ	5,900 J	NQ	1,300	--
Motor Oil (C16-C33)	ug/l	NQ	NQ	<100	<1000	NQ	<100	NQ	NA	<100	<100	NQ	<100	<100	NQ	<100	NQ	<100	--
TPH (GC/FID) Low Fraction	ug/l	NQ	NQ	<100	<100	NQ	1,400	NQ	NA	<100	<100	NQ	<100	<100	NQ	420	NQ	<100	--
TPH (GC/FID) High Fraction	ug/l	6,400	6,200	NQ	NQ	<100	NQ	<100	NA	NQ	NQ	<100	NQ	NQ	13,000	NQ	1,600	NQ	--
Total TPH	ug/l	6,400	6,200	2,000	48,000	<100	1,400	<100	NA	<100	<100	<100	<100	120	13,000	6,320	1,600	1,300	10,000

Notes:

< The compound was not detected above this quantitation limit.
* Environmental Field Investigation, Boeing Tract 1 South, April 16, 2003, MACTEC
-- ITL has not been established.
J Value qualified as an estimate.

ug/l micrograms per liter
NA Constituent not analyzed.
NQ Constituent not quantitated.

Shaded values indicate constituent concentrations which exceed the ITLs.