Table 1-1
Solid Waste Management Units and Areas of Concern
Boeing Auburn Remedial Investigation
Auburn, Washington

Column IA SWMUs and AOCs	
SWMU/AOC	**Description**
S-06	17-15 Rinsewater Treatment Plant
S-12d	17-12 Former Vapor Degreaser; Former Metal Fabrication and Finishing
S-15a (a)	17-06 Machine Sump: SAU06-12 (see attachment 7 of Agreed Order)
S-15b (a)	17-07 Machine Sumps: SAU07-024, -025,-028,-029 (see attachment 7 of Agreed Order)
S-15c (b)	17-34 Chip Shed Sumps: SAU34-001 through -004 (see attachment 7 of Agreed Order)
S-15d (c)	17-52 Machine Sump: SAU52-001 (see attachment 7 of Agreed Order)
S-16 (d)	17-06 Active Aluminum Chip Briquetter and Chip Conveyance System
S-17 (e)	17-29 Titanium Chip Bailer (shed and sump)
S-18 (b)	17-35 Miscellaneous sumps at chip shed
A-01	17-06 Former USTs TAU-01 and TAU-02
A-02c	17-08 Former UST (TAU-16) Diesel Product Storage
A-02d	17-10 Former UST (TAU-6) Diesel Product Storage Tank
A-03 (f)	17-35 Former unregistered Waste Oil Tanks
A-09	17-07 Acid Scrubber Drain line Leak; Machine Fabrication
A-12 (g)	Fuel Oil Spill; Southwest of Building 17-09

Column IB SWMUs and AOCs	
SWMU/AOC	**Description**
S-11	17-45 Aqueous Degreaser; Formerly Vapor Degreaser
S-12a	17-03 Former Vapor Degreaser; Former Metal Fabrication and Finishing
S-12b	17-05 Former Vapor Degreaser (VD-01); Process Assembly, Metal Bonds and Composite Parts
S-12c	17-05 Former Vapor Degreaser (VD-02); Process Assembly, Metal Bonds and Composite Parts
S-12f	17-68 Former Vapor Degreaser
S-13a/S-13b (h)	17-07 Former Vapor Degreasers; Machine Fabrication
S-19	17-05 Former Waste Oil Tank (TAU-22); Process Assembly, Metal Bonds, and Composite Parts
S-30	Former Debris Pile and burn pit
A-02a	17-03 Former USTs (TAU-7 and TAU-8)
A-02b	17-06 Former UST (TAU-23) Jet Fuel product storage
A-04 (d)	17-29 Former Underground Bailer Tank; PS300, cutting oil and solvents
A-05	17-64 Unleaded Gasoline UST (TAU-32); Transportation Building Fuel Island
A-06	Excavations for the expansion of 17-66
A-07	17-08 Former Methyl Ethyl Ketone UST (TAU-18)
A-08	17-05 Former Metalbond Tank Line; Process Assembly, Metal Bonds and Composite Parts
A-10	17-10 G&L Post Mill; Tooling/Tool Fabrication
A-13 (i)	Site-wide Groundwater

Table 1-1
Solid Waste Management Units and Areas of Concern
Boeing Auburn Remedial Investigation
Auburn, Washington

Column II SWMUs and AOCs	
SWMU/AOC	**Description**
S-01	17-34 Permitted Container Storage Area
S-02	17-32 and 17-33, regulated Waste Material Staging Area
S-03	Outdoor Hazardous Waster Accumulation Areas
S-04	Indoor Stellite Accumulation Areas
S-05	Nonhazardous Solid Waste Collection Sites
S-07a	Government Canal
S-07b	Storm Water Treatment Facility
S-08	17-45 Active Wet Paint Spray Booths; Sheet Metal Center
S-09	17-62 Former Wet Paint Spray Booths
S-10	17-66 Paint Storage Room, Mixing Area, and Testing Booth
S-12e	17-62 Former Vapor Degreasers (2); Welded Duct Facility
S-14	17-52 Battery Wash Area
S-20	17-05 Former Waste Holding Tank (WHT-02)
S-21	17-06 Former Waste Holding Tank (WHT-01)
S-22	17-08 Former Acid Waste Holding Tank (TAU-21)
S-23	17-07 Former Alkaline Waste Holding Tank
S-24	17-07 Former Cyanide Waste Holding Tank
S-25	17-07 Former Acid Waste Holding Tank
S-26	Former North Lagoon
S-27	Former South Lagoon
S-28	Former Waste Pile Sludge Delisting
S-29	Former Landfill
S-31	17-05 Alodine Waste Holding Tank (WHT-01)
S-32	17-05 Waste Holding Tank (WHT-03)
S-33	17-06 Waste Holding Tanks (WHT-02 through 05); Skin and Spar Fabrication
S-34	17-07 Tank Line Waste Holding Tanks (WHT-01 through 04)
S-35	17-45 Tank Line Waste Holding Tanks (WHT-01 through 03); Sheet Metal Center
S-36	17-62 Tank Line Waste Holding Tanks (WHT-01 through 04); Welded Duct Facility
S-37	17-68 Tank Line Waste Holding Tanks (WHT-01 through 05); Emergent Manufacturing Facility
S-38	Cyclones, Baghouses, and Dust Collectors
S-39	X-ray and Photographic Laboratories
A-02e	17-57 Former USTs (TAU-12, TAU-13) Heating Oil Tanks
A-02f	17-58 Former UST (TAU-10) PS300 Product Storage Tank
A-11	17-66 Methyl Phenyl Ketone UST

SWMU = solid waste management unit
AOC = area of concern
UST = underground storage tank

Note:

1. Source for categorization of SWMUs and AOCs is Attachment 2 of the Agreed Order.

a. The Agreed Order lists S-15 as machine sumps and included a number that needed additional investigation. These sumps were further defined in this report for clarity. SAU06-12 was defined as S-15a. SAU07-025 was defined as S-15b. Machine sumps at building 17-34 were defined as S-15c.
b. The Agreed Order lists S-18 as miscellaneous sumps at chip sheds 17-34 and 17-35. For clarity, these sumps were divided and Building 17-34 sumps were assigned as SWMU S-15c and Building 17-35 sumps were assigned as SWMU S-18.
c. The Agreed Order lists SAU52-001 as S-14 in Attachment 7. This sump has been renamed S-15d for clarity.
d. The Agreed Order did not include the chip conveyance system in the definition of this SWMU.
e. The definition of S-17 originally included the shed, sump and tank; however, further investigation indicates that the tank is AOC A-04. Definitions for the SWMU and AOC were updated accordingly.
f. The Agreed Order lists A-03 as including both 17-29 and 17-35 former unregistered waste oil tanks; however, tanks were only located at Building 17-35.
g. The Agreed Order lists the location of the fuel oil spill as unkown, further investigation indicates that the spill occurred southwest of Building 17-09.
h. The Agreed Order lists S-13 as active vapor degreaser; however, there were two degreasers (further differentiated as a and b); both have been removed.
i. The Agreed Order does not include A-13. This is a new AOC that has been added for the purposes of investigation and cleanup of Site-wide groundwater.

Table 3-1
Soil Boring List
Boeing Auburn Remedial Investigation
Auburn, Washington

Boring	Groundwater Zone	WCS North Zone 83(91) Northing (a)	WCS North Zone 83(91) Easting (a)	Date Installed	Ground Elevation (ft) (b)	Depth of Boring (ft bgs) (c)	Groundwater Sample Depths (ft bgs)	Soil Sample Depths (ft bgs)	Soil Gas Sample
ASB0119	S	108348.8	1291881.8	12/3/2003	91.1	30.5	20, 30	--	--
ASB0120	S	108365.0	1291881.8	12/4/2003	90.5	31.5	20, 29	--	--
ASB0121	S	108729.25	1291537.15	12/4/2003	90.1	21	20	--	--
ASB0122	S	108774.48	1291561.35	12/4/2003	90.1	21.5	20	--	--
ASB0123	S	108783.74	1291715.91	12/4/2003	90.4	21.5	20	--	--
ASB0124	S	108450.0	1291891.0	12/5/2003	91.3	17	--	16	--
ASB0125	S	108450.0	1291891.0	12/5/2003	91.3	17	--	16	--
ASB0126	S	108728.0	1291771.8	12/16/2003	90.4	20	15	--	--
ASB0127	S	108682.7	1291715.9	12/17/2003	90.4	20	20	--	--
ASB0128	S	108725.2	1291663.3	12/18/2003	90.2	20	20	--	--
ASB0129	S	108776.7	1291773.8	2/19/2004	90.4	20	20	--	--
ASB0130	S	108630.1	1291732.0	2/19/2004	88.9	20.5	20	--	--
ASB0131	S	108721.10	1291495.30	2/19/2004	90.0	20.5	20	--	--
ASB0132	S	108893.35	1291528.51	2/18/2004	90.3	20.5	20	--	--
ASB0133	I	108774.76	1291531.56	2/17/2004	90.0	50	20, 30, 40, 50	--	--
ASB0134	I	108646.72	1291533.69	2/17/2004	90.1	50	20, 30, 40, 50	--	--
ASB0135	S	108022.5	1290239.3	3/22/2004	87.9	15	13	--	--
ASB0136	S	107629.2	1290066.6	3/22/2004	88.0	17	15	--	--
ASB0137	S	107703.0	1290101.4	3/22/2004	87.6	16	13	--	--
ASB0138	S	107868.0	1290163.9	3/22/2004	87.7	16	12	--	--
ASB0139	S	107947.7	1290201.7	3/22/2004	89.6	16	13	--	--
ASB0140	S	108093.9	1290275.0	3/22/2004	87.3	12	11	--	--
ASB0141	S	107685.8	1290179.7	5/4/2004	89.3	9	9	6, 9	--
ASB0142	S	107627.6	1290198.0	5/4/2004	89.9	15	14	12, 15	--
ASB0143	S	107904.5	1290791.7	5/4/2004	89.2	18	17	12, 15	--
ASB0144	S	107962.4	1290787.3	5/4/2004	91.2	18	17	6, 18	--
ASB0145	S	107847.0	1290736.2	5/4/2004	89.7	17	17	6, 17	--
ASB0146	S	107897.4	1290655.4	5/5/2004	89.5	12	10	15	--
ASB0147	S	107938.4	1290721.5	5/5/2004	89.7	15	15	6, 15	--
ASB0148	S	107969.2	1290724.9	5/5/2004	90.4	17	17	6, 17	--
ASB0149	S	105885.7	1292246.1	5/5/2004	90.5	21	18	15, 21	--
ASB0150	S	106922.5	1291167.3	5/6/2004	90.8	21	18	21	--
ASB0151	S	106689.6	1292011.0	5/6/2004	90.9	17	16	15	--
ASB0152	S	106691.2	1291991.8	5/6/2004	90.4	16	17	15	--
ASB0154	S	104588.2	1291979.2	8/23/2004	90.3	20	20	--	--
ASB0155	S	105893.3	1290338.7	8/23/2004	91.7	32.5	32	--	--
ASB0156	S	105849.7	1290815.1	8/24/2004	91.1	32	32	--	--
ASB0157	S	107334.2	1290780.0	8/24/2004	91.3	20	17	--	--
ASB0158	S	104915.5	1292249.9	8/25/2004	92.0	33	33	--	--
ASB0159	S	107323.3	1291484.9	8/30/2004	90.3	20	19	16, 18	--
ASB0160R	S	107301.2	1291870.2	9/7/2004	90.0	22	18	5, 17.5	--
ASB0161	S	107167.4	1290976.1	8/31/2004	91.1	19	18	6, 14, 16	--
ASB0162	S	107180.0	1290988.1	8/31/2004	90.8	20	17	6, 15	--
ASB0163	S	107703.3	1291000.8	8/31/2004	89.4	24	24	14, 17	--
ASB0164R	S	106846.3	1292209.9	9/2/2004	91.8	20.2	20	5, 20	--

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Soil Boring List
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Boring	Groundwater Zone	WCS North Zone 83(91)		Date Installed	Ground Elevation (ft) (b)	Depth of Boring (ft bgs) (c)	Groundwater Sample Depths (ft bgs)	Soil Sample Depths (ft bgs)	Soil Gas Sample
		Northing (a)	Easting (a)						
ASB0165R	S	106853.0	1292202.6	9/2/2004	91.5	23	20	2, 22	--
ASB0166R	S	106924.4	1292227.3	9/2/2004	91.3	22.5	18	5	--
ASB0167	S	107657.4	1291871.9	9/7/2004	90.3	22	18	5, 15, 20	--
ASB0168	S	107301.4	1291879.2	9/7/2004	90.0	22	18	15, 17.5	--
ASB0169	S	107184.5	1291884.0	9/8/2004	91.2	22	18	15, 17.5	--
ASB0170	S	106760.5	1291890.2	9/9/2004	91.5	22	18	15, 17.5	--
ASB0171	S	106765.4	1291885.1	9/9/2004	91.5	22	18	15, 17.5	--
ASB0172	S	107159.6	1291884.6	9/9/2004	91.6	3.4	--	--	--
ASB0174	S	109168.3	1292007.3	8/10/2005	91.0	17	19	7, 17	--
ASB0175	S	108753.7	1292203.8	8/10/2005	90.6	18.5	19	7	--
ASB0176	S	108609.5	1291902.9	8/10/2005	90.4	17.5	19	1, 17	--
ASB0177	I	106192.7	1290834.6	8/4/2008	89.6	45.8	25, 35, 45	--	--
ASB0178	S	105808.0	1292136.0	8/4/2008	91.1	20.5	16	13, 16	--
ASB0179	S	106868.3	1292228.2	10/1/2009	91.7	19	19	6, 17	--
ASB0180	S	107672.5	1290341.2	9/30/2009	90.1	4	--	4	--
ASB0181	S	109912.3	1288859.3	4/3/2013	75.3	25	5, 15, 25	--	--
ASB0182	S	110315.9	1288585.8	4/4/2013	76.0	25	9, 15, 25	--	--
ASB0183	S(WT)	109919.5	1287976.4	4/4/2013	73.0	5	5	--	--
ASB0184	S	109913.4	1288544.7	4/5/2013	73.5	25	5, 15, 25	--	--
ASB0185	S(WT)	109474.9	1288308.7	4/5/2013	75.6	5	5	--	--
ASB0186	S	109919.7	1288308.0	4/8/2013	74.3	25	5, 15, 25	--	--
ASB0187	S(WT)	109658.3	1288849.7	4/8/2013	75.7	5	5	--	--
ASB0188	S	109473.4	1288590.0	4/9/2013	75.5	25	5, 15, 25	--	--
ASB0189	S(WT)	109040.5	1288281.9	4/9/2013	75.3	5	5	--	--
ASB0190	S	109039.2	1288846.4	4/10/2013	76.2	25	10, 15, 25	--	--
ASB0191	S(WT)	108819.0	1288838.8	4/10/2013	76.4	5	5	--	--
ASB0192	S	109528.4	1288844.8	4/11/2013	75.8	25	5, 15, 25	--	--
ASB0193	S(WT)	109196.4	1288834.8	4/11/2013	74.2	5	5	--	--
ASB0194	S(WT)	108600.1	1287920.4	4/12/2013	75.5	5	5	--	--
ASB0195	S(WT)	108593.6	1288298.4	4/13/2013	76.6	5	5	--	--
ASB0196	S(WT)	108595.5	1288505.4	4/12/2013	77.3	5	5	--	--
ASB0197	S(WT)	109037.1	1287956.6	4/15/2013	73.7	10	8	--	--
ASB0198	S	109037.3	1288482.8	4/15/2013	75.7	25	5, 15, 25	--	--
ASB0199	S(WT)	109481.9	1287658.2	4/16/2013	74.4	5	5	--	--
ASB0200	S	109480.3	1287968.8	4/16/2013	74.9	25	5, 15, 25	--	--
ASB0201	S(WT)	109925.5	1287318.8	4/17/2013	72.2	10	7	--	--
ASB0202	S	109928.9	1287678.7	4/17/2013	73.7	25	8, 15, 25	--	--
ASB0203	S	110320.7	1287590.1	4/18/2013	74.2	25	7, 15, 25	--	--
ASB0204	S(WT)	109923.2	1287062.4	4/18/2013	72.2	10	7	--	--
ASB0205	S(WT)	106804.1	1288532.8	4/18/2013	80.0	10	7	--	--
ASB0206	S	109483.8	1287310.4	4/19/2013	73.2	25	7, 15, 25	--	--
ASB0207	S(WT)	109038.8	1287303.0	4/19/2013	72.4	5	5	--	--
ASB0208	S(WT)	109027.9	1287668.8	4/22/2013	73.6	10	7	--	--
ASB0209	S(WT)	105560.3	1289461.1	4/22/2013	80.5	5	5	--	--
ASB0210	S	108592.3	1288810.1	4/22/2013	76.8	25	8, 15, 25	--	--

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Boring	Groundwater Zone	WCS North Zone 83(91) Northing (a)	WCS North Zone 83(91) Easting (a)	Date Installed	Ground Elevation (ft) (b)	Depth of Boring (ft bgs) (c)	Groundwater Sample Depths (ft bgs)	Soil Sample Depths (ft bgs)	Soil Gas Sample
ASB0211	S	108153.6	1288562.9	4/23/2013	77.4	25	5, 15, 25	--	--
ASB0212	S(WT)	107700.9	1288578.5	4/23/2013	76.6	5	5	--	--
ASB0213	S(WT)	104515.0	1289452.7	4/23/2013	79.9	10	8	--	--
ASB0214	S(WT)	108601.4	1287717.2	4/24/2013	75.0	5	5	--	--
ASB0215	S	106245.6	1289450.7	4/24/2013	83.0	25	7, 15, 25	--	--
ASB0216	S(WT)	103727.3	1289440.9	4/24/2013	79.3	10	7	--	--
ASB0217	S(WT)	109699.0	1287603.6	4/25/2013	75.7	10	8	--	--
ASB0218	S	109230.8	1287594.6	4/24/2013	76.2	25	10, 15, 25	--	--
ASB0219	S(WT)	108833.4	1287565.9	4/25/2013	75.1	10	9	--	--
ASB0220	S(WT)	109678.1	1288223.8	4/26/2013	72.9	5	5	--	--
ASB0221	S(WT)	109229.8	1288230.7	4/26/2013	75.8	10	7	--	--
ASB0222	S(WT)	108796.6	1288228.9	4/26/2013	75.9	10	7	--	--
ASB0223	S(WT)	109487.2	1287016.0	4/29/2013	74.7	10	8	--	--
ASB0224	S(WT)	109030.8	1286989.7	4/29/2013	73.9	10	7	--	--
ASB0225	S(WT)	110484.5	1288864.4	4/29/2013	76.1	10	7	--	--
ASB0226	S(WT)	110368.3	1288119.1	4/29/2013	75.8	10	9	--	--
ASB0227	S(WT)	108611.0	1287007.1	4/30/2013	75.6	10	9	--	--
ASB0228	S(WT)	108594.8	1287316.2	4/30/2013	74.7	10	8	--	--
ASB0229	S(WT)	107256.3	1288574.3	4/30/2013	78.8	10	7	--	--
ASB0230	I	108230.6	1289258.1	6/23/2014	79.9	50	7, 15, 25, 48	--	--
ASB0231	S	108489.6	1289270.8	6/24/2014	79.0	25	6, 15, 25	--	--
ASB0232	S	109426.0	1289288.5	6/24/2014	78.0	25	7, 15, 25	--	--
ASB0233	I	109819.3	1289290.9	6/25/2014	80.0	50	9, 15, 25, 50	--	--
ASB0234	I	110175.1	1289302.3	6/26/2014	79.0	50	8, 15, 25, 50	--	--
ASB0235	I	106184.3	1289179.3	7/7/2014	83.4	50	8, 15, 25, 50	--	--
ASB0236	I	106579.8	1289363.3	7/8/2014	83.6	50	9, 15, 25, 50	--	--
ASB0237	S	107690.4	1289894.9	7/9/2014	83.2	25	8, 15, 25	--	--
ASB0238	S	108141.4	1290108.4	7/9/2014	82.4	25	8, 15, 25	--	--
ASB0239	S	108581.9	1290318.5	7/10/2014	82.5	25	9, 15, 25	--	--
ASB0240	S	109039.5	1290543.6	7/10/2014	84.7	25	10, 15, 25	--	--
ASB0241	I	107027.7	1289571.8	7/11/2014	85.0	48	9, 15, 25, 48	--	--
ASB0242	I	109383.6	1290703.5	7/14/2014	86.7	48	12, 25, 48	--	--
ASB0243	I	109916.0	1290957.0	7/15/2014	87.9	50	14, 25, 50	--	--
ASB0244	S	111140.8	1290217.5	3/16/2015	82.4	10	9	--	Collected
ASB0245	S(WT)	111143.6	1289993.1	3/16/2015	82.1	10	10	--	Collected
ASB0246	S(WT)	111156.5	1289232.2	3/16/2015	78.8	10	10	--	Collected
ASB0247	S(WT)	111149.3	1289706.6	3/17/2015	80.9	10	10	--	Collected
ASB0248	S(WT)	111161.8	1289047.4	3/17/2015	78.5	10	7	--	Collected
ASB0249	S(WT)	110919.3	1288875.5	3/17/2015	76.9	10	7	--	Collected
ASB0250	S(WT)	108695.2	1289277.7	3/17/2015	79.4	10	7	--	Collected
ASB0251	S(WT)	108860.5	1289275.2	3/18/2015	79.5	10	7	--	Collected
ASB0251R	S(WT)	108872.5	1289274.8	4/26/2015	79.9	10	10	--	Collected
ASB0251R2	S(WT)	108872.5	1289274.8	6/25/2015	79.9	10	8	--	Collected
ASB0252	S(WT)	111075.4	1288299.2	3/18/2015	75.8	10	8	--	Collected
ASB0253	S(WT)	111070.8	1288741.3	3/18/2015	76.8	10	8	--	Collected

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ASB0254	S(WT)	109130.8	1289276.3	3/18/2015	79.3	10	8	--	Collected
ASB0255	S(WT)	111391.1	1288614.4	4/26/2015	80.1	15	10	--	Collected
ASB0256	S(WT)	111450.8	1288735.4	4/27/2015	80.2	15	12	--	Collected
ASB0256R	S(WT)	111450.8	1288735.4	6/25/2015	80.2	15	15	--	Collected
ASB0257	S(WT)	111872.6	1288887.1	4/27/2015	78.8	15	15	--	Collected
ASB0258	S(WT)	111449.8	1289041.0	4/27/2015	80.8	15	10	--	Collected
ASB0259	S(WT)	111399.0	1289257.1	4/28/2015	78.4	15	10	--	Collected
ASB0260	S(WT)	111339.9	1289595.6	4/28/2015	79.3	15	8	--	Collected
ASB0261	S(WT)	111333.1	1289808.9	4/28/2015	80.5	15	10	--	Collected
ASB0261R	S(WT)	111333.1	1289808.9	6/26/2015	80.5	15	15	--	Collected
ASB0262	S(WT)	111331.2	1289987.2	4/29/2015	81.5	15	10	--	Collected
ASB0263	S(WT)	111320.7	1290181.1	4/29/2015	81.6	15	10	--	Collected

-- = not applicable
bgs = below ground surface
ft = feet
I = intermediate zone
S = shallow zone
WT = water table

Notes:

1. Boring ASB153 was skipped in the sequence of remedial investigation borings; this boring does not exist.
2. The location name for boring ASB0173 changed to ASB0177, ASB0173 does not exist.
3. Geographic coordinates of borings were collected in the field using a handheld GPS, except for ASB0121 - ASB0123 and ASB0131 - ASB0134, which were surveyed.

a. Horizontal Datum: WCS North Zone 83(91) US ft (+/- 0.05 ft for survey, +/- 0.33 ft for GPS).
b. Vertical Datum: National Geodetic Vertical Datum of 1929, US ft (+/-0.01 ft), mean sea level.
c. Depth of boring defined as bottom of screened interval.

Table 3-2
Monitoring Well List
Boeing Auburn Remedial Investigation
Auburn, Washington

Monitoring Well (a)	Well Type	Groundwater Zone	WCS North Zone 83(91)		Date Installed	Well Status (c)	Ground Elevation (ft) (d)	Top of Casing Elevation (ft) (d)	Depth of Well (ft bgs) (e)	Screened Interval (ft bgs)	Borehole Grab Sample (ft bgs)
			Northing (b)	Easting (b)							
AGW001/R	CV	S	108321.75	1292187.09	4/9/2007	C	87.50	87.15	25	15 - 25	--
AGW002/R	CV	S	108658.18	1291592.08	9/28/2006	C	90.00	90.95	34	24 - 34	--
AGW003	CV	I	108677.00	39702.00	6/21/1994	DC, 2006	90.30	86.61	48	43 - 48	--
AGW004	CV	S	108683.00	39702.00	6/21/1994	DC, 2006	90.35	86.48	29	19 - 29	--
AGW005	CV	S	109012.00	1291540.00	6/21/1994	DC, 2006	86.79	86.38	24	9 - 24	--
AGW006/R	CV	S	109011.93	1291314.95	3/19/2007	C	86.79	86.46	26	16 - 26	--
AGW007	CV	S	108799.00	1291292.00	6/22/1994	DC, 2006	90.50	86.35	27	12 - 27	--
AGW008	CV	D	109014.00	1291530.00	1/16/1995	DC, 2006	85.93	86.29	110	100 - 110	--
AGW009	CV	S	107910.10	1291228.50	8/22/1990	C	90.12	86.37	19	9 - 19	--
AGW010	CV	S	107985.00	1291211.00	8/23/1990	C	89.80	86.25	22	12 - 22	--
AGW011	CV	S	107990.00	1291230.00	8/23/1990	C	90.26	86.28	19	9 - 19	--
AGW012	CV	S	107974.00	1291263.00	8/23/1990	C	89.56	86.25	19	9 - 19	--
AGW013	CV	S	108059.00	1291135.00	7/31/1991	C	90.26	85.85	21	6 - 21	--
AGW014	CV	S	108021.00	1291228.00	7/31/1991	C	90.17	85.91	21	6 - 21	--
AGW015	CV	S	107992.00	1291138.00	8/2/1991	C	89.64	85.71	21	6 - 21	--
AGW016	CV	S	108016.00	1291170.00	8/2/1991	C	90.02	85.76	21	6 - 21	--
AGW017	CV	S	107944.00	1291142.00	8/5/1991	C	89.56	86.10	20	10 - 20	--
AGW018	CV	S	105603.40	1292146.20	9/24/1993	C	91.97	87.66	25	10 - 25	--
AGW019	CV	S	110990.90	1290941.00	12/15/1994	DC, unknown	86.75	84.61	24	9 - 24	--
AGW020	CV	S	105159.40	1291843.90	12/29/1992	C	88.00	89.79	26	11 - 26	--
AGW021	CV	S	105210.10	1291604.50	12/30/1992	C	92.05	89.71	29	14 - 29	--
AGW022	CV	S	105211.90	1291707.60	12/31/1992	C	91.97	89.94	25	10 - 25	--
AGW023	CV	S	105292.80	1291639.10	12/30/1992	C	92.19	88.40	29	14 - 29	--
AGW024	CV	S	107595.00	1290180.00	10/15/1992	C	85.20	84.56	23	13 - 23	--
AGW025	CV	S	107672.00	1290316.00	10/15/1992	C	86.31	85.89	25	15 - 25	--
AGW026	CV	S	107264.00	1290325.00	10/14/1992	C	86.26	85.87	25	15 - 25	--
AGW027	CV	S	107852.00	1290559.00	11/9/1992	C	86.10	88.01	25	15 - 25	--
AGW028	CV	S	107171.00	1290566.00	11/10/1992	C	89.52	88.18	25	15 - 25	--
AGW029	CV	S	107753.00	1290133.00	11/9/1992	C	85.00	87.02	25	15 - 25	--
AGW030	CV	S	107520.00	1290021.00	11/11/1992	C	84.70	86.69	25	15 - 25	--
AGW031/R	CV	S	109488.60	1291125.28	3/20/2007	C	86.22	85.96	28	18 - 28	--
AGW032	CV	S	107955.00	1290313.00	9/8/1994	C	86.80	88.20	38	13 - 38	--
AGW033	CV	S	108907.00	1290680.00	12/15/1994	C	87.86	86.89	28	13 - 28	--
AGW034	CV	D	107676.20	1290195.10	1/18/1995	C	85.30	84.94	85	75 - 85	--
AGW035	CV	D	108916.00	1290684.00	1/19/1995	C	85.20	87.29	105	95 - 105	--
AGW036	CV	S	103112.00	1293251.00	10/7/1986	DC, 2004	90.48	89.08	19	4 - 19	--
AGW037	CV	S	107298.00	1290655.00	1/8/1996	C	86.80	86.53	23	8 - 23	--
AGW038	CV	S	107033.00	1290770.00	4/29/1996	C	86.80	86.40	21	6 - 21	--
AGW039	CV	S	106981.00	1290780.00	4/29/1996	C	86.80	86.43	21	6 - 21	--
AGW040	CV	S	107032.00	1290762.00	4/30/1996	C	86.80	86.45	21	6 - 21	--
AGW041	CV	S	107247.00	1291983.00	5/30/1996	C	91.04	86.45	20	5 - 20	--
AGW042	CV	S	107368.00	1291947.00	5/30/1996	C	89.95	85.90	20	5 - 20	--
AGW043	CV	S	107566.00	1291897.00	5/30/1996	C	90.68	86.44	20	5 - 20	--
AGW044	CV	S	107509.00	1291866.00	5/30/1996	C	90.08	86.52	20	5 - 20	--
AGW045	CV	S	107189.00	1291866.00	5/30/1996	DC - unknown	91.10	86.66	20	5 - 20	--
AGW046	CV	S	107141.00	1290746.00	9/12/1996	C	90.43	85.93	20	5 - 20	--
AGW047	CV	S	107178.00	1290724.00	9/12/1996	C	90.84	86.19	20	5 - 20	--
AGW048	CV	S	107207.00	1290746.00	9/12/1996	C	90.60	86.27	20	5 - 20	--
AGW049	CV	S	107208.00	1290731.00	9/12/1996	C	90.49	86.39	20	5 - 20	--
AGW050	CV	S	107207.00	1290697.00	9/12/1996	C	90.74	86.20	20	5 - 20	--
AGW051	CV	S	108859.00	1291653.00	9/17/1996	DC, 2006	90.39	86.34	20	5 - 20	--
AGW052	CV	S	108859.00	1291632.00	9/17/1996	DC, 2006	90.36	86.46	25	10 - 25	--

Table 3-2
Monitoring Well List
Boeing Auburn Remedial Investigation
Auburn, Washington

Monitoring Well (a)	Well Type	Groundwater Zone	WCS North Zone 83(91)		Date Installed	Well Status (c)	Ground Elevation (ft) (d)	Top of Casing Elevation (ft) (d)	Depth of Well (ft bgs) (e)	Screened Interval (ft bgs)	Borehole Grab Sample (ft bgs)
			Northing (b)	Easting (b)							
AGW053/R	CV	S	108862.77	1291622.99	9/25/2006	C	91.42	90.98	27	22 - 27	--
AGW054	CV	I	108805.00	1291292.00	10/1/1996	DC, 2006	90.44	86.30	50	40 - 50	--
AGW055/R	CV	I	109013.51	1291306.63	3/19/2007	C	86.67	86.31	45	35 - 45	--
AGW056	CV	I	109018.00	1291536.00	10/1/1996	DC, 2006	86.00	86.46	50	40 - 50	--
AGW057/R	CV	I	108116.67	1291439.63	4/10/2007	C	90.04	89.64	50	40 - 50	--
AGW058/R	CV	S	108116.86	1291446.93	4/10/2007	C	90.24	89.92	25	15 - 25	--
AGW059/R	CV	S	108111.78	1291709.71	4/10/2007	C	89.58	89.23	25	15 - 25	--
AGW060/R	CV	I	108112.62	1291717.64	4/9/2007	C	89.42	89.11	50	40 - 50	--
AGW061	CV	I	108338.00	1291904.00	10/2/1996	DC, 2006	90.64	86.35	49	39 - 49	--
AGW062	CV	S	108333.00	1291904.00	10/2/1996	DC	90.48	86.31	25	10 - 25	--
AGW063	CV	D	108691.00	1291581.00	11/9/1996	DC	90.25	86.27	110	100 - 110	--
AGW064	CV	S	110286.00	1291459.00	12/2/1996	C	88.72	88.39	27	12 - 27	--
AGW065	CV	S	109831.00	1291255.00	12/2/1996	C	86.38	86.03	27	12 -27	--
AGW066	CV	S	109473.00	1291356.00	12/2/1996	C	89.96	89.58	29	14 - 29	--
AGW067	CV	S	109480.00	1291739.00	12/3/1996	C	89.89	89.51	29	14 - 29	--
AGW068	CV	S	110964.00	1291940.00	12/3/1996	C	87.33	87.04	27	12 - 27	--
AGW069	CV	S	110135.00	1291850.00	12/3/1996	C	87.72	87.49	27	12 - 27	--
AGW070	CV	D	109473.00	1291346.00	12/13/1996	DC, 2006	89.28	85.82	29	14 - 29	--
AGW071	CV	S	109463.00	1291345.00	12/13/1996	DC, 2006	89.51	85.93	30	20 - 30	--
AGW072	CV	I	109463.00	1291345.00	3/20/2007	C	90.20	89.63	74	64 - 74	--
AGW073	CV	D	109463.00	1291345.00	3/20/2007	C	90.20	89.56	110	100 - 110	--
AGW074	CV	S	103722.00	1291780.00	12/14/1996	C	87.84	87.63	25	5 - 25	--
AGW075	CV	S	109444.00	1291346.00	12/4/1996	DC, 2006	89.18	85.95	30	20 - 30	--
AGW076	CV	S	106849.48	1292181.10	3/24/1997	C	86.76	86.26	19	4 - 19	--
AGW077	CV	S	106851.69	1292228.48	3/24/1997	C	90.80	86.73	19	4 - 19	--
AGW078	CV	S	106795.10	1292258.90	3/24/1997	C	87.50	87.28	19	4 - 19	--
AGW079	CV	S	107508.00	1290261.00	5/15/1997	C	87.81	84.69	19	4 - 19	--
AGW080	CV	S	105172.00	1289720.00	6/12/1997	C	82.62	82.21	21	6 - 21	--
AGW081	CV	S	105885.00	1289723.00	6/12/1997	C	83.60	82.37	20	5 -20	--
AGW082	CV	S	106507.00	1289732.00	6/12/1997	C	84.22	83.83	21	6 - 21	--
AGW083	CV	S	107125.00	1289867.00	6/12/1997	C	86.86	86.44	21	6 - 21	--
AGW084	CV	S	107070.00	1292205.60	4/14/1999	C	90.95	86.20	20	10 - 20	--
AGW085	CV	S	107057.10	1292253.70	4/14/1999	C	86.95	86.42	20	10 - 20	--
AGW086	CV	S	107043.40	1292193.20	4/14/1999	C	87.01	86.74	20	10 - 20	--
AGW087	CV	I	102707.00	1292045.00	10/21/2001	C	86.32	85.79	50	40 - 50	--
AGW088	CV	S	102718.00	1292045.00	10/22/2001	C	86.27	85.85	25	15 - 25	--
AGW089	CV	I	103368.00	1292029.00	10/23/2001	C	87.29	86.80	50	40 - 50	--
AGW090	CV	S	103381.00	1292030.00	10/23/2001	C	87.29	86.50	25	15 - 25	--
AGW091	CV	I	103722.00	1291787.00	10/26/2001	C	87.79	87.32	50	40 - 50	--
AGW092	CV	S	103842.50	1292559.90	7/25/2002	DC, 2004	87.70	86.99	20	10 - 20	--
AGW093	CV	S	103905.20	1292559.20	7/25/2002	DC, 2004	87.81	87.33	20	10 - 20	--
AGW094	CV	S	103910.10	1292525.30	7/25/2002	DC, 2004	87.11	86.86	20	10 - 20	--
AGW095/R	CV	I	109485.68	1291121.17	3/20/2007	C	85.94	85.64	55	45 - 55	--
AGW096	CV	S	109790.03	1292189.91	12/2/2003	DC, 2006	86.93	86.69	30	20 - 30	--
AGW097	CV	I	108308.40	1292189.48	12/3/2003	DC, 2006	86.65	86.22	55	45 - 55	--
AGW098/R	CV	D	109488.52	1291112.70	3/19/2007	C	86.06	85.64	90	80 - 90	--
AGW099	CV	D	108316.62	1292184.83	12/10/2003	DC, 2006	86.65	86.22	89	79 - 89	--
AGW100	CV	S	104018.05	1290751.73	3/29/2004	C	85.72	85.40	30	10 - 30	--
AGW101	CV	I	104018.17	1290729.69	3/29/2004	C	85.80	85.50	55	45 - 55	--
AGW102	CV	D	104018.20	1290712.50	4/2/2004	C	85.89	85.47	88	78 - 88	--
AGW103	CV	S	105418.88	1292509.17	3/30/2004	C	89.79	89.38	30	20 - 30	--
AGW104	CV	S	106226.92	1292247.69	3/29/2004	C	89.30	88.98	30	20 - 30	--

Table 3-2
Monitoring Well List
Boeing Auburn Remedial Investigation
Auburn, Washington

Monitoring Well (a)	Well Type	Groundwater Zone	WCS North Zone 83(91) Northing (b)	WCS North Zone 83(91) Easting (b)	Date Installed	Well Status (c)	Ground Elevation (ft) (d)	Top of Casing Elevation (ft) (d)	Depth of Well (ft bgs) (e)	Screened Interval (ft bgs)	Borehole Grab Sample (ft bgs)
AGW105	CV	I	107578.83	1290052.36	3/31/2004	C	85.20	87.33	55	45 - 55	--
AGW106/R	CV	S	108661.33	1291560.30	9/28/2006	C	91.41	90.97	34	34 - 24	--
AGW107	CV	S	108691.33	1291550.51	6/1/2004	DC, 2006	90.21	86.45	31	20 - 30	--
AGW108	CV	S	108726.60	1291556.04	6/3/2004	DC, 2006	90.10	86.55	31	20 - 30	--
AGW109	CV	S	108728.92	1291503.83	6/3/2004	DC, 2006	90.01	86.37	31	20 - 30	--
AGW110/R	CV	S	108774.69	1291535.71	9/25/2006	C	91.45	91.06	34	24 - 34	--
AGW111	CV	S	108838.07	1291528.74	6/2/2004	DC, 2006	90.15	86.55	31	21 - 31	--
AGW112/R	CV	S	108873.01	1291534.45	9/25/2006	C	91.45	90.96	35	25 - 35	--
AGW113	CV	S	108677.58	1291739.64	6/4/2004	DC, 2006	90.15	86.19	31	21 - 31	--
AGW114	CV	S	108722.58	1291691.64	6/4/2004	DC, 2006	90.29	86.45	31	21 - 31	--
AGW115	CV	S	107151.48	1291728.78	10/6/2004	C	86.88	86.53	24	9 - 24	--
AGW116	CV	S	106810.12	1291727.90	10/6/2004	C	86.95	86.69	24	9 - 24	--
AGW117	CV	S	106801.95	1291928.22	10/7/2004	C	86.81	86.49	24	9 - 24	--
AGW118	CV	S	106596.80	1291880.10	10/7/2004	C	87.06	86.78	24	9 - 24	--
AGW119	CV	I	103587.42	1293390.72	12/2/2004	C	91.90	94.26	54	44 - 54	--
AGW120	CV	S	103578.36	1293389.67	12/2/2004	C	94.24	94.61	30	20 - 30	--
AGW121	CV	S	102575.56	1293424.53	12/2/2004	C	88.50	91.27	30	20 - 30	--
AGW122	CV	S	108607.47	1291533.51	12/14/2004	DC, 2006	89.36	86.61	30	20 - 30	--
AGW123	CV	S	108555.47	1291493.51	12/14/2004	DC, 2006	89.37	86.54	30	20 - 30	--
AGW124	CV	S	108555.47	1291553.51	12/14/2004	DC, 2006	89.57	86.45	30	20 - 30	--
AGW125	CV	S	109478.67	1291542.80	3/20/2007	C	89.10	88.85	30	20 - 30	--
AGW126	CV	I	109477.48	1291536.49	3/19/2007	C	89.19	88.88	44	34 - 44	--
AGW127	CV	S	106421.00	1291922.94	9/8/2008	C	86.86	86.54	24	9 - 24	--
AGW128	CV	S	107298.21	1291873.85	9/12/2008	C	86.89	86.64	24	8 - 24	--
AGW129	CV	S	106952.15	1291883.93	9/11/2008	C	86.92	86.66	24	8 - 24	--
AGW130	CV	S	107621.95	1291845.24	9/11/2008	C	86.87	86.64	24	8 - 24	35, 45
AGW131	CV	S	107849.01	1290734.47	9/12/2008	C	86.29	85.98	25	15 - 25	--
AGW132	CV	S	105588.96	1291722.30	9/10/2008	C	87.26	86.96	27	17 - 27	--
AGW133	CV	S	105532.11	1291806.93	9/9/2008	C	88.42	88.11	27	17 - 27	35, 45
AGW134	CV	S	108499.79	1290472.95	9/10/2008	C	84.09	83.65	27	17 - 27	--
AGW135	CV	S	109267.74	1290851.56	9/10/2008	C	84.91	84.54	27	17 - 27	--
AGW136	CV	S	109957.69	1291582.62	9/9/2008	C	86.84	86.60	28	18 - 28	35, 45
AGW137	CV	I	109957.69	1291588.92	10/30/2008	C	86.89	86.44	44	34 - 44	55, 65
AGW138	CV	D	109958.25	1291595.58	2/12/2009	C	86.95	86.64	89	79 - 89	--
AGW139	CV	I	109965.20	1291848.89	2/9/2009	C	87.12	86.68	44	34 - 44	--
AGW140	CV	I	110001.71	1291294.00	2/11/2009	C	86.33	85.92	45	35 - 45	--
AGW141	CV	I	110417.03	1291633.10	2/11/2009	C	86.84	86.37	44	34 - 44	--
AGW142	CV	D	110418.73	1291626.19	2/10/2009	C	86.85	86.51	90	80 - 90	--
AGW143	CV	D	107952.59	1290023.17	10/6/2009	C	79.38	78.98	89	79 - 89	--
AGW144	CV	I	107961.75	1290027.12	10/8/2009	C	79.49	79.05	55	45 - 50	--
AGW145	CV	I	108340.70	1290210.19	10/12/2009	C	78.84	78.14	55	45 - 50	--
AGW146	CV	D	108349.03	1290213.74	10/7/2009	C	78.94	78.69	90	80 - 90	--
AGW147	CV	I	110130.50	1291059.28	10/13/2009	C	84.92	84.49	55	45 - 55	--
AGW148	CV	I	110453.19	1291216.44	10/12/2009	C	84.48	83.80	54	44 - 54	--
AGW149	CV	I	110843.51	1291374.34	10/14/2009	C	84.99	84.73	55	45 - 55	--
AGW150	CV	I	110931.82	1291616.21	10/5/2009	C	83.96	83.54	57	47 - 57	90
AGW151	CV	I	110247.59	1292016.55	10/14/2009	C	86.62	86.26	56	46 - 56	--
AGW152	CV	S	108077.71	1290689.57	9/30/2009	C	84.64	84.39	29	19 - 29	--
AGW153	CV	S	105579.30	1291513.87	10/2/2009	C	89.02	88.52	30	20 - 30	--
AGW154	CV	I	107098.00	1290560.00	2/23/2010	C	86.30	86.06	60	50 -60	--
AGW155	CV	I	107633.00	1290337.00	2/23/2010	C	86.39	86.12	50	40 - 50	--
AGW156	CV	I	107852.00	1290566.00	2/22/2010	C	89.01	88.45	60	50 - 60	--

Table 3-2
Monitoring Well List
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Monitoring Well (a)	Well Type	Groundwater Zone	WCS North Zone 83(91)		Date Installed	Well Status (c)	Ground Elevation (ft) (d)	Top of Casing Elevation (ft) (d)	Depth of Well (ft bgs) (e)	Screened Interval (ft bgs)	Borehole Grab Sample (ft bgs)
			Northing (b)	Easting (b)							
AGW157	CV	I	108939.90	1290493.00	3/1/2010	C	81.55	81.20	54	44 - 54	30
AGW158	CV	I	109617.40	1290284.00	2/24/2010	C	82.55	82.15	50	40 - 50	30
AGW159	CV	D	109616.60	1290278.30	3/23/2010	C	82.64	82.03	90	80 - 90	--
AGW160	CV	I	110934.70	1291033.10	2/25/2010	C	85.04	84.60	60	50 - 60	30
AGW161	CV	I	111474.30	1291505.10	3/2/2010	C	82.06	81.68	57	47 - 57	30
AGW162	CV	I	110978.80	1292093.10	2/24/2010	C	85.88	85.31	60	50 - 60	30
AGW163	CV	I	107361.24	1291162.59	8/26/2010	C	86.63	86.40	57	47 - 57	28
AGW164	CV	I	107422.31	1290598.59	8/25/2010	C	86.73	86.52	60	50 - 60	29
AGW165	CV	S	107332.14	1290692.42	8/25/2010	C	86.72	86.50	28	18 - 28	55
AGW166	CV	I	109620.68	1289600.39	10/26/2010	C	78.00	77.61	60	50 - 60	30
AGW167	CV	D	109619.91	1289612.43	10/27/2010	C	78.34	78.11	95	85 - 95	--
AGW168	CV	I	110289.46	1289780.50	10/28/2010	C	78.27	77.95	60	50 - 60	29
AGW169	CV	D	110289.65	1289797.14	10/29/2010	C	78.40	78.12	94	84 - 94	--
AGW170	CV	I	110281.93	1290219.02	11/1/2010	C	80.53	80.21	60	50 - 60	28.5
AGW171	CV	D	110281.40	1290255.90	11/2/2010	C	80.72	80.20	83	73 - 83	--
AGW172	CV	I	111557.34	1290848.40	9/2/2010	C	84.55	84.25	59	49 - 59	--
AGW173	CV	I	112192.07	1290877.21	9/1/2010	C	86.33	85.68	51	41 - 51	50
AGW174	CV	I	112216.81	1291526.68	8/23/2010	C	78.18	77.97	59	49 - 59	59
AGW175	CV	I	112939.21	1291540.49	8/27/2010	C	75.64	75.16	58	48 - 58	--
AGW176	CV	I	112850.90	1290581.44	9/3/2010	C	80.75	80.48	59	49 - 59	--
AGW177	CV	I	111009.55	1289719.25	9/21/2010	C	78.05	77.76	58	48 - 58	29
AGW178	CV	D	111009.51	1289729.66	9/22/2010	C	78.04	77.74	95	85 - 95	--
AGW179	CV	I	110997.70	1290314.18	9/23/2010	C	79.47	79.22	51	41 - 51	30
AGW180	CV	D	110997.42	1290320.61	9/23/2010	C	79.30	79.00	81	71 - 81	--
AGW181	CV	I	114342.40	1290301.20	4/25/2011	C	70.34	70.14	59	49 - 59	--
AGW182	CV	I	110464.10	1288855.90	4/29/2011	C	73.40	73.08	58	48 - 58	29
AGW183	CV	D	110470.50	1288856.30	5/2/2011	C	73.34	73.01	94	84 - 94	--
AGW184	CV	I	112891.50	1292585.00	4/26/2011	C	77.53	77.26	59	49 - 59	--
AGW185	CV	D	112221.10	1291527.00	4/27/2011	C	77.83	77.39	92	82 - 92	--
AGW186	CV	I	114609.70	1292503.00	4/28/2011	C	73.37	73.00	54	44 - 54	--
AGW187	CV	I	113825.70	1291571.30	5/3/2011	C	72.46	72.21	59	49 - 59	--
AGW188	CV	I	115384.18	1290322.33	5/4/2011	C	65.00	64.68	59	49 - 59	--
AGW189	CV	I	111711.80	1293024.80	5/5/2011	C	85.24	84.87	59	49 - 59	--
AGW190	CV	I	115310.70	1291605.00	5/6/2011	C	69.94	69.68	59	49 - 59	--
AGW191	CV	I	109513.70	1288847.90	8/29/2011	C	72.72	72.30	60	50 - 60	--
AGW192	CV	D	109520.80	1288848.40	8/30/2011	C	72.71	72.39	95	85 - 95	25
AGW193	CV	S	109619.80	1289619.50	8/31/2011	C	78.58	78.33	30	20 - 30	--
AGW194	CV	S	109617.00	1290288.10	9/1/2011	C	82.52	82.29	30	20 - 30	--
AGW195	CV	D	112478.17	1289154.96	10/3/2011	C	78.18	77.88	90	80 - 90	30
AGW196	CV	I	112469.70	1289153.89	10/4/2011	C	78.09	77.79	55	45 - 55	--
AGW197	CV	D	113219.38	1289798.10	10/5/2011	C	73.25	72.94	85	75 - 85	29
AGW198	CV	I	113211.65	1289802.68	10/5/2011	C	73.25	72.94	58	48 - 58	--
AGW199	CV	D	112866.83	1290589.29	10/6/2011	C	80.52	80.20	95	85 - 95	28
AGW200	CMT	S, I, D	107787.09	1290349.87	10/18/2011	C	86.72	86.27	99.2	19.25 - 19.75 29.25 - 29.75 39.25 - 39.75 49.25 - 49.75 59.25 - 59.75 79.25 - 79.75 98.3 - 98.7	--

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Monitoring Well List
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Auburn, Washington

Monitoring Well (a)	Well Type	Groundwater Zone	WCS North Zone 83(91) Northing (b)	WCS North Zone 83(91) Easting (b)	Date Installed	Well Status (c)	Ground Elevation (ft) (d)	Top of Casing Elevation (ft) (d)	Depth of Well (ft bgs) (e)	Screened Interval (ft bgs)	Borehole Grab Sample (ft bgs)
AGW201	CMT	S, I, D	107804.13	1290577.53	10/20/2011	C	86.65	86.36	97.1	19.25 - 19.75 29.25 - 29.75 39.25 - 39.75 49.25 - 49.75 59.25 - 59.75 79.25 - 79.75 96.3 - 96.7	--
AGW202	CMT	S, I, D	107806.38	1290809.29	10/24/2011	C	86.72	86.26	98.1	20.25 - 20.75 30.25 - 30.75 40.25 - 40.75 50.25 - 50.75 60.25 - 60.75 80.25 - 80.75 97.3 - 97.7	--
AGW203	CMT	S, I, D	107796.15	1291238.36	10/26/2011	C	86.85	86.53	101.1	19.25 - 19.75 29.25 - 29.75 39.25 - 39.75 48.25 - 48.75 59.25 - 59.75 79.25 - 79.75	--
AGW204	CV	I	105900.00	1292018.33	10/27/2011	C	87.71	87.34	58	48 - 58	30
AGW205	CV	I	106167.04	1291385.39	10/27/2011	C	86.33	86.02	58	48 - 58	30
AGW206	CV	I	106979.63	1291246.98	10/28/2011	C	86.53	86.22	58	48 - 58	29
AGW207	CMT	S, I, D	111524.93	1289007.62	11/1/2011	C	76.87	76.22	80.6	19.5 - 20 29.5 - 30 39.5 - 40 49.5 - 50 59.5 - 60 79.8 - 80.2	--
AGW208	CMT	S, I, D	111417.86	1289593.51	11/2/2011	C	75.80	75.43	95.1	21.05 - 21.55 29.05 - 29.55 39.05 - 39.55 49.05 - 49.55 67.05 - 67.55 79.05 - 79.55 94.3 - 94.7	--
AGW209	CMT	S, I, D	111423.10	1289965.11	11/3/2011	C	78.73	78.48	93.2	19.25 - 19.75 29.25 - 29.75 39.25 - 39.75 49.25 - 49.75 59.25 - 59.75 79.25 - 79.75 92.4 - 92.8	--
AGW210	CMT	S, I, D	111402.14	1290493.07	11/7/2011	C	80.63	80.22	92.4	21.25 - 21.75 29.75 - 30.25 37.75 - 38.25 49.75 - 50.25 59.75 - 60.25 79.75 - 80.25 91.75 - 92.25	--
AGW211	CMT	S, I, D	111375.49	1290939.95	11/9/2011	C	82.58	82.08	90	19.5 - 20 29.5 - 30 37.5 - 38 49.5 - 50 59.5 - 60 79.5 - 80 89.6 - 89.9	--

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Monitoring Well List
Boeing Auburn Remedial Investigation
Auburn, Washington

Monitoring Well (a)	Well Type	Groundwater Zone	WCS North Zone 83(91) Northing (b)	WCS North Zone 83(91) Easting (b)	Date Installed	Well Status (c)	Ground Elevation (ft) (d)	Top of Casing Elevation (ft) (d)	Depth of Well (ft bgs) (e)	Screened Interval (ft bgs)	Borehole Grab Sample (ft bgs)
AGW212	CMT	S, I, D	111161.74	1291458.78	11/11/2011	C	83.32	82.94	100.1	20.5 - 21 29.5 - 30 39.5 - 40 59.5 - 60 80.5 - 81 99.5 - 99.8	--
AGW213	CV	D	114349.33	1290301.26	11/15/2011	C	70.27	69.98	90	80 - 90	28
AGW214	CV	I	115878.57	1291218.94	11/15/2011	C	64.32	64.01	52	42 - 52	27
AGW215	CV	I	115623.02	1289515.56	11/16/2011	C	63.44	63.05	58	48 - 58	29
AGW216	CV	I	116054.67	1291810.63	11/17/2011	C	65.94	65.65	60	50 - 60	30
AGW217	CV	I	116843.73	1291243.70	11/18/2011	C	62.68	62.19	57	47 - 57	29
AGW218	CV	I	116061.35	1290594.27	11/21/2011	C	63.73	63.33	59	49 - 59	28
AGW219	CV	I	118029.63	1291230.44	11/22/2011	C	62.07	61.73	52	42 - 52	30
AGW220	CV	I	116762.10	1290633.22	11/28/2011	C	61.54	61.08	60	50 - 60	28
AGW221	CV	I	117317.90	1291826.95	11/29/2011	C	63.23	62.83	59	49 - 59	--
AGW222	CV	I	107331.30	1291536.80	12/2/2012	C	86.85	86.39	59	49 - 59	27
AGW223	CV	D	107086.50	1290710.50	12/4/2012	C	86.55	86.15	91	81 - 91	30, 60, 90
AGW224	CV	S	110475.90	1288858.20	12/5/2012	C	72.70	73.25	17	2 - 17	--
AGW225	CV	S	109507.70	1288848.10	12/5/2012	C	72.71	71.90	17	2 - 17	--
AGW226	CV	S	109916.30	1288473.20	12/5/2012	C	70.37	69.75	17	2 - 17	--
AGW227	CV	I	110364.70	1288137.00	12/6/2012	C	72.00	71.52	50	40 -50	--
AGW228	CV	S	110364.60	1288129.30	12/6/2012	C	72.10	71.79	28	18 - 28	--
AGW229	CV	S	110281.70	1290211.50	12/7/2012	C	80.45	79.94	17	2 - 17	--
AGW230	CV	D	112891.90	1292589.80	12/10/2012	C	77.75	77.45	84	74 - 84	--
AGW231	CV	S	113205.17	1289807.50	5/19/2013	C	73.50	73.10	30	20 - 30	9
AGW232	CV	S	112487.98	1289159.75	5/20/2013	C	78.26	77.96	30	20 - 30	14
AGW233	CV	D	113849.10	1291566.90	5/21/2013	C	72.09	71.56	83	73 - 83	30
AGW234	CV	D	112863.67	1288839.98	5/22/2013	C	70.37	69.78	84	74 - 84	21, 57
AGW235	CMT	S, I, D	111970.80	1288070.60	5/24/2013	C	70.23	69.94	73	8.5 - 9 18.5 - 19 28.5 - 29 38.5 - 39 48.5 - 49 58.5 - 59 70.9 - 71.1	--
AGW236	CV	S	111665.90	1288460.40	5/28/2013	C	75.23	74.85	30	20 - 30	14
AGW237	CV	D	114236.60	1289103.20	9/23/2013	C	70.82	70.49	80	70 - 80	--
AGW238	CV	I	114232.10	1289095.30	9/24/2013	C	71.00	70.26	61	51 - 61	--
AGW239	CV	S	114227.10	1289089.00	9/25/2013	C	71.16	70.78	30	20 - 30	8.5
AGW240	CMT	WT, S	109028.68	1288847.28	6/10/2014	C	72.77	72.48	30	5 - 7.5 17.5 - 18 28 - 28.5	--
AGW241	CMT	WT, S	108594.71	1288810.81	6/11/2014	C	73.49	73.28	30	4 - 6.5 16.5 - 17 27 - 27.5	--
AGW242	CMT	WT, S, I	109460.66	1287860.95	6/13/2014	C	70.09	69.84	82.3	3.5 - 6 16 - 16.5 26.5 - 27 40 - 40.5 50 - 50.5 60 - 60.5	--
AGW243	CMT	WT, S, I	110324.30	1287595.81	6/17/2014	C	70.67	70.43	51.4	4 - 6.5 25 - 25.5 50 - 50.5	--
AGW244	CV	WT	109028.79	1288287.97	6/16/2014	C	72.36	72.04	7.5	2.5 - 7.5	--
AGW245	CV	WT	109949.16	1288223.19	6/16/2014	C	70.46	70.21	7.5	2.5 - 7.5	--

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Monitoring Well (a)	Well Type	Groundwater Zone	WCS North Zone 83(91)		Date Installed	Well Status (c)	Ground Elevation (ft) (d)	Top of Casing Elevation (ft) (d)	Depth of Well (ft bgs) (e)	Screened Interval (ft bgs)	Borehole Grab Sample (ft bgs)
			Northing (b)	Easting (b)							
AGW246	CV	WT	109764.37	1288220.41	6/16/2014	C	70.90	70.41	7.5	2.5 - 7.5	--
AGW247	CMT	WT, S	109472.84	1288356.70	6/18/2014	C	71.82	71.54	30	3.5 - 6 16 - 16.5 26.5 - 27	--
AGW248	CMT	WT, S	109911.46	1288865.73	6/19/2014	C	72.02	71.82	30	3 - 5.5 15.5 - 16 26 - 26.5	--
AGW249	CMT	WT, S	110307.76	1288674.84	6/20/2014	C	73.72	73.39	30	6 - 8.5 18.5 - 19 29 - 29.5	--
AGW250	CMT	WT, S, I, D	106226.47	1289452.96	6/24/2014	C	78.79	78.44	90	6.5 - 9 26 - 26.5 41 - 41.5 51 - 51.5 61 - 61.5 81 - 81.5 89.5 - 89.7	--
AGW251	CMT	WT, S, I, D	108708.65	1289286.73	6/27/2015	C	76.46	76.09	87	6 - 8.5 25 - 25.5 40 - 40.5 52 - 52.5 62.5 - 63 76 - 76.5 86.55 - 86.75	--
AGW252	CV	D	115756.04	1288459.70	11/10/2014	C	65.91	68.19	67	57 - 67	--
AGW253	CV	I	115757.54	1288469.14	11/11/2014	C	65.90	68.02	48	38 - 48	--
AGW254	CMT	WT, S, I	115618.56	1288892.41	11/13/2014	C	66.46	70.47	78.8	4.9 - 7.4 21 - 21.5 31 - 31.5 41 - 41.5 50.5 - 51 61 - 61.5	--
AGW255	CMT	WT, S, I	111034.17	1287862.58	11/14/2014	C	72.40	74.80	55	10.75 - 13.25 29.5 - 30 54.7 - 55.2	--
AGW256	CV	I	109107.14	1292393.84	11/17/2014	C	88.36	88.08	59	49 - 59	--
AGW257	CV	S	109106.24	1292379.55	11/17/2014	C	88.27	87.86	29	19 - 29	--
AGW258	CV	S	110102.77	1292375.91	11/18/2014	C	90.37	90.25	29	19 - 29	--
AGW259	CV	D	115611.86	1288899.35	2/23/2015	C	66.45	65.99	74	69 - 74	--
AGW260	CV	D	109460.24	1287868.22	3/23/2015	C	70.07	69.47	83	78 - 83	--
AGW261	CV	S	108233.03	1289275.13	3/24/2015	C	76.49	76.04	29	19 - 29	--
AGW262	CV	WT	109917.66	1288486.00	3/24/2015	C	70.42	69.93	7.5	2.5 - 7.5	--
AGW263	CV	WT	109527.86	1288849.20	3/24/2015	C	72.49	72.10	7.5	2.5 - 7.5	--
AGW264	CV	D	109047.31	1288848.27	3/25/2015	C	72.44	71.89	78	68 - 78	--
AGW265	CV	I	109041.09	1288848.18	3/26/2015	C	72.51	71.97	59	49 - 59	--
AGW266	CV	S	115377.92	1290323.07	3/26/2015	C	65.07	64.69	29	19 - 29	--
AGW267	CV	I	108132.57	1288020.54	3/27/2015	C	72.67	72.17	59	49 - 59	--
AGW268	CV	D	108133.02	1288015.08	3/30/2015	C	72.77	72.22	71	66 - 71	--
AGW269	CV	S	108871.45	1289183.72	7/30/2015	C	77.89	77.54	30	20 - 30	--
AGW270	CV	S	108920.12	1289170.15	7/30/2015	C	77.62	77.18	30	20 - 30	--
AGW271	CV	S	108964.83	1289150.29	7/31/2015	C	76.97	76.59	30	20 - 30	--
AGW272	CV	S	109372.16	1288898.14	8/3/2015	C	76.75	76.32	30	20 - 30	--
AGW273	CV	S	109266.78	1288894.51	8/3/2015	C	76.33	76.10	30	20 - 30	--
AGW274	CV	S	109165.61	1288892.85	8/3/2015	C	76.56	76.32	30	20 - 30	--
AGW275	CV	S	108915.00	1288887.18	8/4/2015	C	76.85	76.49	30	20 - 30	--

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Boeing Auburn Remedial Investigation
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Monitoring Well (a)	Well Type	Groundwater Zone	WCS North Zone 83(91) Northing (b)	WCS North Zone 83(91) Easting (b)	Date Installed	Well Status (c)	Ground Elevation (ft) (d)	Top of Casing Elevation (ft) (d)	Depth of Well (ft bgs) (e)	Screened Interval (ft bgs)	Borehole Grab Sample (ft bgs)
AGW276	CMT	WT, S, I, D	108770.95	1289999.54	10/7/2015	C	79.11	78.74	100	10 - 15 25 - 25.5 35 - 35.5 47.5 - 48 60 - 60.5 80 - 80.5 100 - 100.2	--
APP-057	CV	S	114881.35	1288170.90	4/11/2007	C	66.41	68.57	29	19 - 29	--
APP-058	CV	S	114461.45	1287736.18	4/11/2007	C	66.25	68.34	28	18 - 28	--
APP-069	CV	S	115759.82	1288478.37	5/1/2007	C	65.88	68.09	20	10 - 20	--
IW1	INJ	S, I	108636.77	1291493.51	6/9/2004	DC, 2006	89.95	86.6	41	20 - 27.5 33.5 - 41	--
IW2	INJ	S, I	108636.77	1291503.51	6/10/2004	DC, 2006	89.95	86.55	42	20 - 27.5 33.5 - 42	--
IW3	INJ	S, I	108636.77	1291513.51	6/16/2004	DC, 2006	89.94	86.49	42	20 - 27.5 33.5 - 42	--
IW4	INJ	S, I	108636.77	1291523.51	6/10/2004	DC, 2006	89.87	86.49	42	19.5 - 27 33 - 42	--
IW5	INJ	S, I	108636.77	1291533.51	6/10/2004	DC, 2006	89.68	86.63	44	19.5 - 27 33.5 - 44	--
IW6	INJ	S, I	108636.77	1291543.51	6/29/2004	DC, 2006	89.58	86.52	40	19 - 26.5 32 - 40	--
IW7	INJ	S, I	108636.77	1291553.51	6/28/2004	DC, 2006	89.49	86.44	38	19 - 24 30 - 38	--
IW8	INJ	S, I	108636.77	1291563.51	6/18/2004	DC, 2006	89.45	86.46	36	17 - 22 27.5 - 36	--
IW9	INJ	S, I	108650.38	1291581.87	6/24/2004	DC, 2006	90.15	86.89	38.5	17.5 - 25 30 - 38.5	--
IW10	INJ	S, I	108650.38	1291591.87	6/17/2004	DC, 2006	90.17	86.5	44	20 - 27.5 33.5 - 44	--
IW11	INJ	S, I	108650.38	1291601.87	6/24/2004	DC, 2006	90.16	86.4	38.5	17.5 - 25 30.5 - 38.5	--
IW12	INJ	S, I	108651.58	1291611.87	6/23/2004	DC, 2006	90.16	86.44	38.5	17 - 24.5 30.5 - 38.5	--
IW13	INJ	S, I	108651.58	1291624.60	6/22/2004	DC, 2006	90.14	86.44	38.5	17.5 - 25 31.5 - 38.5	--
IW14	INJ	S, I	108621.77	1291631.87	6/28/2004	DC, 2006	89.19	86.38	33	15 - 20 25 - 33	--
IW15	INJ	S, I	108621.77	1291641.87	6/15/2004	DC, 2006	89.17	86.43	45	15 - 20 25 - 45	--
IW16	INJ	S, I	108621.77	1291651.87	6/28/2004	DC, 2006	89.11	86.39	35	16.5 - 20.5 27 - 35	--
IW17	INJ	S, I	108621.77	1291661.87	6/25/2004	DC, 2006	89.06	86.41	38.5	16.5 - 25 31.5 - 38.5	--
IW18	INJ	S, I	108621.77	1291671.87	6/24/2004	DC, 2006	89.03	86.39	36.5	16.5 - 21.5 27 - 36.5	--
IW19	INJ	S, I	108621.77	1291681.87	6/25/2004	DC, 2006	88.98	86.32	38.5	17.5 - 25 31.5 - 38.5	--
IW20	INJ	S, I	108621.77	1291691.87	6/16/2004	DC, 2006	88.93	86.55	45	17 - 24.5 32 - 45	--
IW21	INJ	S, I	108636.77	1291701.87	6/22/2004	DC, 2006	89.09	86.42	40	17.5 - 25 31.5 - 40	--
IW22	INJ	S, I	108636.77	1291711.87	6/25/2004	DC, 2006	89.04	86.39	40	18 - 25.5 32 - 40	--
IW23	INJ	S, I	108636.77	1291721.87	6/21/2004	DC, 2006	88.98	86.29	41	19 - 26.5 32.5 -41	--
IW24	INJ	S, I	108636.77	1291731.87	6/22/2004	DC, 2006	88.96	86.42	42	20 - 27.5 34 - 42	--

Table 3-2
Monitoring Well List
Boeing Auburn Remedial Investigation
Auburn, Washington

Monitoring Well (a)	Well Type	Groundwater Zone	WCS North Zone 83(91) Northing (b)	WCS North Zone 83(91) Easting (b)	Date Installed	Well Status (c)	Ground Elevation (ft) (d)	Top of Casing Elevation (ft) (d)	Depth of Well (ft bgs) (e)	Screened Interval (ft bgs)	Borehole Grab Sample (ft bgs)
IW25	INJ	S, I	108636.77	1291741.87	6/14/2004	DC, 2006	88.90	86.51	44	19.5 - 26 36 - 44	--
IW26	INJ	S, I	108732.38	1291494.63	6/29/2004	DC, 2006	90.00	86.41	43	21.5 - 29 35.5 - 43	--
IW27	INJ	S, I	108732.38	1291504.63	6/7/2004	DC, 2006	90.02	86.55	43	20.5 - 28 35 - 43	--
IW28	INJ	S, I	108732.38	1291514.63	6/29/2004	DC, 2006	90.03	86.41	43	20.5 - 28 34.5 - 43	--
IW29	INJ	S, I	108732.38	1291524.63	6/30/2004	DC, 2006	90.04	86.56	43	20.5 - 28 33 - 43	--
IW30	INJ	S, I	108732.38	1291534.63	6/30/2004	DC, 2006	90.06	86.5	43	20.5 - 28 34 - 43	--
IW31	INJ	S, I	108732.38	1291544.63	6/8/2004	DC, 2006	90.07	86.62	43.5	21 - 28.5 35.5 - 43.5	--
IW32	INJ	S, I	108732.38	1291554.63	7/1/2004	DC, 2006	90.08	86.45	43	20.5 - 28 34.5 - 43	--
IW33	INJ	S	108930.68	1289205.46	7/28/2015	C	78.10	77.793	40	20 - 40	--
IW34	INJ	S	108885.22	1289204.54	7/28/2015	C	78.17	77.825	40	20 - 40	--
IW35	INJ	S	108844.07	1289203.82	7/29/2015	C	78.09	77.772	40	20 - 40	--
IW36	INJ	S	108781.14	1289202.54	7/29/2015	C	78.17	77.954	40	20 - 40	--
IW37	INJ	S	108957.44	1289205.97	7/27/2015	C	78.14	77.929	40	20 - 40	--

-- = not applicable
bgs = below ground surface
CMT = continuous multi-channel tubing
CV = conventional
D = deep zone
ft = feet
I = intermediate zone
INJ = injection
S = shallow zone
WT = water table

a. Data for replacement wells reflect the most recent survey data and installation date.
b. Horizontal Datum: WCS North Zone 83(91) US ft (+/- 0.05' ft).
c. Status indicates whether well is decommissioned (DC) and the year it was decommissioned or current (C).
d. Vertical Datum: National Geodetic Vertical Datum of 1929, US ft (+/-0.01 ft), mean sea level.
e. Depth of well defined as bottom of screened interval.

Table 3-3
Column IA Soil Sampling Matrix
Boeing Auburn Remedial Investigation
Auburn, Washington

SWMU/AOC	Building	Well/ Boring ID	Sample Depth (ft)	Sample Date	VOC	SVOC	DRO/ ORO	GRO	PCB	EPH	Metals, Total	TOC
S-06	17-15	ASB0141	6	5/4/2004	X	X	X					X
S-06	17-15	ASB0141	9	5/4/2004	X	X	X			X		X
S-06	17-15	ASB0142	12	5/4/2004	X	X	X					X
S-06	17-15	ASB0142	15	5/4/2004	X	X	X					X
S-06	17-15	ASB0180	4	9/30/2009							X (a)	
S-12d	17-12	ASB0161	6	8/31/2004	X							
S-12d	17-12	ASB0161	14	8/31/2004								X
S-12d	17-12	ASB0161	16	8/31/2004	X							X
S-12d	17-12	ASB0162	6	8/31/2004	X							
S-12d	17-12	ASB0162	14	8/31/2004								X
S-12d	17-12	ASB0162	15	8/31/2004	X							X
S-15a/S-16	17-06	AGW127	17	9/8/2008	X		X		X			
S-15a/S-16	17-06	AGW128	17	9/12/2008	X		X		X			
S-15a/S-16	17-06	AGW129	17	9/11/2008	X		X		X			
S-15a/S-16	17-06	AGW130	17	9/11/2008	X		X		X			
S-15a/S-16	17-06	ASB0159	16	8/30/2004	X		X			X		
S-15a/S-16	17-06	ASB0159	18	8/30/2004								X
S-15a/S-16	17-06	ASB0160R	17.5	9/7/2004	X	X	X			X		X
S-15a/S-16	17-06	ASB0167	5	9/7/2004	X							
S-15a/S-16	17-06	ASB0167	15	9/7/2004								X
S-15a/S-16	17-06	ASB0167	20	9/7/2004	X		X					X
S-15a/S-16	17-06	ASB0168	15	9/8/2004	X	X	X					X
S-15a/S-16	17-06	ASB0168	17.5	9/8/2004	X	X	X					X
S-15a/S-16	17-06	ASB0169	15, 17.5	9/8/2004	X		X					X
S-15a/S-16	17-06	ASB0170	15, 17.5	9/9/2004	X		X					X
S-15a/S-16	17-06	ASB0171	15	9/10/2004	X		X					X
S-15a/S-16	17-06	ASB0171	17.5	9/11/2004	X		X			X		X
S-15b	17-07	ASB0163	14	8/31/2004								X
S-15b	17-07	ASB0163	17	8/31/2004		X	X			X		X
S-15c	17-34	ASB0166R	5	9/2/2004	X							
S-15c	17-34	ASB0179	6	10/1/2009	X		X	X				
S-15c	17-34	ASB0179	17	10/1/2009	X		X	X				
S-17	17-29	ASB0164R	5	9/2/2004	X							
S-17	17-29	ASB0164R	20	9/2/2004	X	X	X			X		X
S-17	17-29	ASB0165R	5	9/2/2004	X							
S-17	17-29	ASB0165R	22	9/2/2004	X	X	X					X
S-18	17-35	ASB0143	12	5/4/2004	X	X	X					X
S-18	17-35	ASB0143	15	5/4/2004	X	X	X					X
S-18	17-35	ASB0144	6	5/4/2004	X							
S-18	17-35	ASB0144	15	5/4/2004								X
S-18	17-35	ASB0144	18	5/4/2004	X	X	X					X
S-18	17-35	ASB0145	6	5/4/2004	X							
S-18	17-35	ASB0145	12	5/4/2004								X
S-18	17-35	ASB0145	15	5/4/2004	X	X	X					X
S-18	17-35	ASB0146	12	5/5/2004	X	X	X					X
S-18	17-35	ASB0147	6	5/5/2004	X							
S-18	17-35	ASB0147	15	5/5/2004	X	X	X			X		X
S-18	17-35	ASB0148	6	5/5/2004	X							
S-18	17-35	ASB0148	12	5/5/2004								X
S-18	17-35	ASB0148	15	5/5/2004		X	X					X
A-02c	17-08	ASB0149	15	5/5/2004						X		X

Table 3-3
Column IA Soil Sampling Matrix
Boeing Auburn Remedial Investigation
Auburn, Washington

SWMU/AOC	Building	Well/ Boring ID	Sample Depth (ft)	Sample Date	VOC	SVOC	DRO/ ORO	GRO	PCB	EPH	Metals, Total	TOC
A-02c	17-08	ASB0149	21	5/5/2004		X	X					X
A-02c	17-08	ASB0178	13, 16	8/4/2008		X	X					
A-02d	17-10	ASB0150	18	5/6/2004								X
A-02d	17-10	ASB0150	21	5/6/2004		X	X			X		X
A-03	17-35	ASB0143	12	5/4/2004	X	X	X					X
A-03	17-35	ASB0143	15	5/4/2004	X	X	X					X
A-03	17-35	ASB0144	6	5/4/2004	X							
A-03	17-35	ASB0144	15	5/4/2004								X
A-03	17-35	ASB0144	18	5/4/2004	X	X	X					X
A-03	17-35	ASB0145	6	5/4/2004	X							
A-03	17-35	ASB0145	12	5/4/2004								X
A-03	17-35	ASB0145	15	5/4/2004	X	X	X					X
A-03	17-35	ASB0146	12	5/5/2004	X	X	X					X
A-03	17-35	ASB0147	6	5/5/2004	X							
A-03	17-35	ASB0147	15	5/5/2004	X	X	X			X		X
A-03	17-35	ASB0148	6	5/5/2004	X							
A-03	17-35	ASB0148	12	5/5/2004								X
A-03	17-35	ASB0148	15	5/5/2004		X	X					X
A-12	17-09	ASB0151	12	5/6/2004								X
A-12	17-09	ASB0151	15	5/6/2004		X	X					X
A-12	17-09	ASB0152	12	5/6/2004								X
A-12	17-09	ASB0152	15	5/6/2004		X	X			X		X

AOC = area of concern
DRO = diesel-range organics
EPH = extractable petroleum hydrocarbon
ft = feet
GRO = gasoline-range organics
ORO = oil-range organics
PCB = polychlorinated biphenyl
SVOC = semi-volatile organic compound
SWMU = solid waste management unit
TOC = total organic carbon
VOC = volatile organic compound

a. Tested only for antimony.

Table 3-4
Column IA and IB SWMU and AOC Groundwater Sampling Locations
Boeing Auburn Remedial Investigation
Auburn, Washington

SWMU/ AOC	Building	Column	Well/ Boring ID	Groundwater Zone	Sample Depth or Screened Interval (ft) (a)	VOC	SVOC	BTEX	DRO/ ORO	GRO	PCB	EPH	VPH	Metals, Dissolved	Con.
S-06	17-15	IA	AGW024	S	13 - 23	X	X		X					X	X
S-06	17-15	IA	AGW025	S	15 - 25	X	X		X					X	X
S-06	17-15	IA	AGW027	S	15 - 25	X									X
S-06	17-15	IA	AGW029	S	15 - 25	X	X		X					X	X
S-06	17-15	IA	AGW030	S	15 - 25	X	X		X					X	X
S-06	17-15	IA	AGW032	S	13 - 28	X	X		X					X	X
S-06	17-15	IA	AGW034	D	75 - 85	X	X		X					X	X
S-06	17-15	IA	AGW079	S	15 - 20	X									
S-06	17-15	IA	AGW105	I	45 - 55	X	X		X					X	X
S-06	17-15	IA	ASB0135	S	13	X									
S-06	17-15	IA	ASB0136	S	15	X									
S-06	17-15	IA	ASB0137	S	13	X									
S-06	17-15	IA	ASB0138	S	12	X									
S-06	17-15	IA	ASB0139	S	13	X									
S-06	17-15	IA	ASB0140	S	11	X									
S-06	17-15	IA	ASB0141	S	9	X									
S-06	17-15	IA	ASB0142	S	14	X									
S-11	17-45	IB	ASB0155	S	32	X									
S-11	17-45	IB	ASB0156	S	32	X									
S-11	17-45	IB	ASB0177	S, I	25, 35, 45	X									
S-12a	17-03	IB	AGW001	S	9 - 24	X	X								X
S-12b	17-05	IB	AGW002	S	19 - 29	X									X
S-12b	17-05	IB	AGW003	I	43 - 48	X									X
S-12b	17-05	IB	AGW006	S	11 - 26	X									X
S-12b	17-05	IB	AGW007	S	12 - 27	X									X
S-12b	17-05	IB	AGW057	I	40 - 50	X									X
S-12b	17-05	IB	AGW058	S	10 - 25	X									X
S-12b	17-05	IB	AGW063	D	100 - 110	X									X
S-12b	17-05	IB	ASB0121	S	20	X								X	
S-12b	17-05	IB	ASB0122	S	20	X	X		X					X	
S-12b	17-05	IB	ASB0131	S	20	X									X
S-12b	17-05	IB	ASB0132	S	20	X									X
S-12b	17-05	IB	ASB0133	S	20	X									X
S-12b	17-05	IB	ASB0133	I	40	X									
S-12b	17-05	IB	ASB0133	I	50	X									X
S-12b	17-05	IB	ASB0134	S	20	X									X
S-12b	17-05	IB	ASB0134	I	40	X									
S-12b	17-05	IB	ASB0134	I	50	X									X
S-12c	17-05	IB	AGW002	S	19 - 29	X									X
S-12c	17-05	IB	AGW003	I	43 - 48	X									X
S-12c	17-05	IB	AGW006	S	11 - 26	X									X
S-12c	17-05	IB	AGW007	S	12 - 27	X									X
S-12c	17-05	IB	AGW057	I	40 - 50	X									X
S-12c	17-05	IB	AGW058	S	10 - 25	X									X
S-12d	17-12	IA	ASB0161	S	18	X									
S-12d	17-12	IA	ASB0162	S	17	X									
S-12f	17-68	IB	ASB0158	S	32	X			X			X	X		
S-13	17-07	IB	AGW037	S	8 - 23								X	X	

Table 3-4
Column IA and IB SWMU and AOC Groundwater Sampling Locations
Boeing Auburn Remedial Investigation
Auburn, Washington

SWMU/ AOC	Building	Column	Well/ Boring ID	Groundwater Zone	Sample Depth or Screened Interval (ft) (a)	VOC	SVOC	BTEX	DRO/ ORO	GRO	PCB	EPH	VPH	Metals, Dissolved	Con.
S-13	17-07	IB	AGW164	I	50 - 60	X									
S-13	17-07	IB	AGW164-29	S	29	X									
S-13	17-07	IB	AGW165	S	18-28	X									
S-13	17-07	IB	AGW165-55	I	55	X									
S-13	17-07	IB	ASB0157	S	17	X									
S-15a/S-16	17-06	IA	AGW041	S	5 - 20	X			X						
S-15a/S-16	17-06	IA	AGW042	S	5 - 20	X			X					X	
S-15a/S-16	17-06	IA	AGW043	S	5 - 20	X			X					X	X
S-15a/S-16	17-06	IA	AGW044	S	5 - 20	X			X						
S-15a/S-16	17-06	IA	AGW045	S	5 - 20	X			X					X	
S-15a/S-16	17-06	IA	AGW115	S	9 - 24	X			X						
S-15a/S-16	17-06	IA	AGW116	S	9 - 24	X			X						
S-15a/S-16	17-06	IA	AGW117	S	9 - 24	X			X						
S-15a/S-16	17-06	IA	AGW118	S	9 - 24	X			X						
S-15a/S-16	17-06	IA	AGW127	S	9 - 24	X			X						
S-15a/S-16	17-06	IA	AGW128	S	9 - 24	X			X						
S-15a/S-16	17-06	IA	AGW129	S	9 - 24	X			X						
S-15a/S-16	17-06	IA	AGW130	S	9 - 24	X			X						
S-15a/S-16	17-06	IA	AGW130-35	S	35	X									
S-15a/S-16	17-06	IA	AGW130-45	I	45	X									
S-15a/S-16	17-06	IA	ASB0159	S	19	X	X		X						
S-15a/S-16	17-06	IA	ASB0160R	S	18	X	X		X						
S-15a/S-16	17-06	IA	ASB0167	S	18	X	X		X						
S-15a/S-16	17-06	IA	ASB0168	S	18	X	X		X						
S-15a/S-16	17-06	IA	ASB0169	S	18	X	X		X						
S-15a/S-16	17-06	IA	ASB0170	S	18	X	X		X						
S-15a/S-16	17-06	IA	ASB0171	S	18	X	X		X						
S-15b	17-07	IA	ASB0163	S	18		X		X						
S-15c	17-34	IA	AGW084	S	10 - 20	X	X		X		X			X	X
S-15c	17-34	IA	AGW085	S	10 - 20	X	X		X		X			X	X
S-15c	17-34	IA	AGW086	S	10 - 20	X	X		X		X			X	X
S-15c	17-34	IA	ASB0166R	S	18	X	X		X						
S-15c	17-34	IA	ASB0179	S	19				X						
S-17	17-29	IA	AGW076	S	4 - 19	X			X					X	
S-17	17-29	IB	AGW077	S	4 - 19	X			X					X	
S-17	17-29	IB	AGW078	S	4 - 19	X	X		X		X			X	
S-17	17-29	IA	ASB0164R	S	20	X	X		X						
S-17	17-29	IA	ASB0165R	S	20	X	X		X						
S-18	17-35	IA	AGW027	S	15 - 25	X									X
S-18	17-35	IA	AGW131	S	15 - 25	X									
S-18	17-35	IA	AGW152	S	20 - 30	X									
S-18	17-35	IA	ASB0143	S	17	X	X		X						
S-18	17-35	IA	ASB0144	S	17	X	X		X						
S-18	17-35	IA	ASB0145	S	17	X	X		X						
S-18	17-35	IA	ASB0146	S	10	X	X		X						
S-18	17-35	IA	ASB0147	S	15	X	X		X						
S-18	17-35	IA	ASB0148	S	17	X	X		X						
S-19	17-05	IB	ASB0119	S	30	X			X						

Table 3-4
Column IA and IB SWMU and AOC Groundwater Sampling Locations
Boeing Auburn Remedial Investigation
Auburn, Washington

SWMU/ AOC	Building	Column	Well/ Boring ID	Groundwater Zone	Sample Depth or Screened Interval (ft) (a)	VOC	SVOC	BTEX	DRO/ ORO	GRO	PCB	EPH	VPH	Metals, Dissolved	Con.
S-19	17-05	IB	ASB0120	S	20	X			X						
S-30	17-07	IB	AGW026	S	15 - 25	X								X	
S-30	17-07	IB	AGW028	S	15 - 25	X								X	
A-01	17-06	IA	AGW009	S	9 - 19			X	X	X					X
A-01	17-06	IA	AGW010	S	12 - 22			X	X	X					X
A-01	17-06	IA	AGW011	S	9 - 19			X	X	X					X
A-01	17-06	IA	AGW012	S	9 - 19			X	X	X					X
A-01	17-06	IA	AGW013	S	6 - 21			X	X	X					X
A-01	17-06	IA	AGW014	S	6 - 21	X		X	X	X					X
A-01	17-06	IA	AGW015	S	6 - 21			X	X	X					X
A-01	17-06	IA	AGW016	S	6 - 21			X	X	X					X
A-01	17-06	IA	AGW017	S	10 - 20			X	X	X					X
A-02a	17-03	IB	AGW001	S	9 - 24	X	X								X
A-02b	17-06	IB	AGW041	S	5 - 20	X			X					X	
A-02b	17-06	IB	AGW117	S	9 - 24	X			X						
A-02c	17-08	IA	AGW104	S	20 - 30	X	X		X	X				X	X
A-02c	17-08	IA	ASB0149	S	18		X		X						
A-02c	17-08	IA	ASB0178	S	16		X		X						
A-02d	17-10	IA	ASB0150	S	18		X		X						
A-03	17-35	IA	ASB0143	S	17	X	X		X						
A-03	17-35	IA	ASB0144	S	17	X	X		X						
A-03	17-35	IA	ASB0145	S	17	X	X		X						
A-03	17-35	IA	ASB0146	S	10	X	X		X						
A-03	17-35	IA	ASB0147	S	15	X	X		X						
A-03	17-35	IA	ASB0148	S	17	X	X		X						
A-04	17-29	IB	AGW076	S	4 - 19	X			X					X	
A-04	17-29	IB	AGW077	S	4 - 19	X			X					X	
A-04	17-29	IB	AGW078	S	4 - 19	X	X		X					X	
A-05	17-64	IB	ASB0154	S	16				X	X		X	X		
A-06	17-66	IA	AGW020	S	11 - 26	X	X		X	X	X			X	X
A-06	17-66	IA	AGW021	S	14 - 29	X								X	
A-06	17-66	IA	AGW022	S	10 - 25	X								X	
A-06	17-66	IA	AGW023	S	14 - 29	X			X	X				X	X
A-06	17-66	IA	AGW132	S	18 - 28	X									
A-06	17-66	IA	AGW133	S	17 - 27	X									
A-06	17-66	IA	AGW133-35	S	35	X									
A-06	17-66	IA	AGW133-45	I	45	X									
A-06	17-66	IA	AGW153	S	20 - 30	X									
A-07	17-08	IB	AGW018	S	10-25	X									
A-08	17-05	IB	AGW002	S	24 - 34	X									X
A-08	17-05	IB	AGW003	I	43 - 48	X									X
A-08	17-05	IB	AGW006	S	11 - 26	X									X
A-08	17-05	IB	AGW007	S	12 - 27	X									X
A-08	17-05	IB	AGW057	I	40 - 50	X									X
A-08	17-05	IB	AGW058	S	10 - 25	X									X
A-08	17-05	IB	ASB0123	S	20	X								X	
A-08	17-05	IB	ASB0126	S	20	X								X	
A-08	17-05	IB	ASB0127	S	20	X								X	

Table 3-4
Column IA and IB SWMU and AOC Groundwater Sampling Locations
Boeing Auburn Remedial Investigation
Auburn, Washington

SWMU/ AOC	Building	Column	Well/ Boring ID	Groundwater Zone	Sample Depth or Screened Interval (ft) (a)	VOC	SVOC	BTEX	DRO/ ORO	GRO	PCB	EPH	VPH	Metals, Dissolved	Con.
A-08	17-05	IB	ASB0128	S	20	X								X	
A-08	17-05	IB	ASB0129	S	20	X								X	X
A-08	17-05	IB	ASB0130	S	20	X									X
A-09	17-07	IA	AGW037	S	8 - 23									X	
A-09	17-07	IA	AGW046	S	5 - 22									X	
A-09	17-07	IA	AGW047	S	5 - 22									X	
A-09	17-07	IA	AGW048	S	5 - 20									X	
A-09	17-07	IA	AGW049	S	5 - 20									X	
A-09	17-07	IA	AGW050	S	5 - 20									X	
A-10	17-10	IB	AGW038	S	5 - 20	X	X		X						
A-10	17-10	IB	AGW039	S	5 - 20	X	X		X						
A-10	17-10	IB	AGW040	S	5 - 20	X	X		X						
A-12	17-09	IA	ASB0151	S	17		X		X						
A-12	17-09	IA	ASB0152	S	16		X		X						

AOC= area of concern
BTEX = benzene, toluene, ethylbenzene, xylenes
Con. = conventionals
D = deep zone
DRO = diesel-range organics
EPH = extractable petroleum hydrocarbon
GRO = gasoline-range organics
I = intermediate zone
ORO = oil-range organics
PCB = polychlorinated biphenyl
S = shallow zone
SVOC = semi-volatile organic compound
SWMU = solid waste management unit
VOC = volatile organic compound
VPH = volatile petroleum hydrocarbon

Table 3-5
Phase VII Groundwater Monitoring Plan
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Well Type	Groundwater Zone	Phase VII Frequency	VOCs 8260 (a)	VOCs VC 8260 SIM (b)	NA Parameters (c)	Metals, Dissolved 6010	DRO/ORO NWTPH-Dx	GRO NWTPH-Gx
AGW002R	CV	S	SA	X	X	A			
AGW006R	CV	S	SA	X	X				
AGW009	CV	S	A	X	X				
AGW010	CV	S	SA	X	X			X	X
AGW026	CV	S	SA	X	X				
AGW027	CV	S	SA	X	X				
AGW029	CV	S	A	X	X				
AGW030	CV	S	A	X	X				
AGW031R	CV	S	SA	X	X				
AGW032	CV	S	SA	X	X				
AGW033	CV	S	SA	X	X				
AGW034	CV	D	A	X	X				
AGW035	CV	D	A	X	X				
AGW037	CV	S	SA	X	X				
AGW039	CV	S	A	X	X		As		
AGW040	CV	S	A	X	X				
AGW041	CV	S	A	X	X				
AGW044	CV	S	A	X	X			X	
AGW053R	CV	S	SA	X	X				
AGW055R	CV	I	SA	X	X				
AGW058R	CV	S	A	X	X				
AGW059R	CV	S	A	X	X				
AGW060R	CV	I	SA	X	X				
AGW074	CV	S	SA	X	X				
AGW081	CV	S	A	X	X				
AGW087	CV	I	SA	X	X				
AGW088	CV	S	SA	X	X				
AGW089	CV	I	SA	X	X				
AGW090	CV	S	SA	X	X				
AGW091	CV	I	SA	X	X				
AGW095R	CV	I	SA	X	X				
AGW105	CV	I	SA	X	X				
AGW110R	CV	S	SA	X	X	A			
AGW112R	CV	S	SA	X	X				
AGW119	CV	I	SA	X	X				
AGW120	CV	S	SA	X	X				
AGW125	CV	S	SA	X	X				
AGW126	CV	I	SA	X	X				
AGW128	CV	S	SA	X	X			X	
AGW133	CV	S	A	X	X				
AGW134	CV	S	SA	X	X				
AGW135	CV	S	SA	X	X				
AGW136	CV	S	SA	X	X				
AGW137	CV	I	SA	X	X				
AGW140	CV	I	SA	X	X				
AGW144	CV	I	SA	X	X				
AGW146	CV	D	SA	X	X				

Table 3-5
Phase VII Groundwater Monitoring Plan
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Well Type	Groundwater Zone	Phase VII Frequency	VOCs 8260 (a)	VOCs VC 8260 SIM (b)	NA Parameters (c)	Metals, Dissolved 6010	DRO/ORO NWTPH-Dx	GRO NWTPH-Gx
AGW147	CV	I	SA	X	X				
AGW148	CV	I	SA	X	X				
AGW153	CV	S	A	X	X				
AGW154	CV	I	SA	X	X				
AGW157	CV	I	SA	X	X				
AGW158	CV	I	SA	X	X				
AGW159	CV	D	SA	X	X				
AGW163	CV	I	SA	X	X				
AGW164	CV	I	SA	X	X				
AGW165	CV	S	SA	X	X				
AGW166	CV	I	SA	X	X				
AGW167	CV	D	SA	X	X				
AGW168	CV	I	SA	X	X				
AGW169	CV	D	SA	X	X				
AGW170	CV	I	SA	X	X				
AGW173	CV	I	SA	X	X				
AGW176	CV	I	SA	X	X				
AGW177	CV	I	SA	X	X				
AGW178	CV	D	SA	X	X				
AGW179	CV	I	SA	X	X				
AGW181	CV	I	SA	X	X				
AGW182	CV	I	SA	X	X				
AGW183	CV	D	SA	X	X				
AGW188	CV	I	SA	X	X				
AGW191	CV	I	Q	X	X				
AGW192	CV	D	Q	X	X				
AGW193	CV	S	SA	X	X				
AGW194	CV	S	SA	X	X				
AGW195	CV	D	SA	X	X				
AGW198	CV	I	SA	X	X				
AGW199	CV	D	SA	X	X				
AGW201-6	CMT	D	SA	X	X				
AGW202-2	CMT	S	SA	X	X				
AGW207-2	CMT	S	SA	X	X				
AGW207-4	CMT	I	SA	X	X				
AGW207-7	CMT	D	SA	X	X				
AGW208-4	CMT	I	SA	X	X				
AGW209-5	CMT	I	SA	X	X				
AGW209-6	CMT	D	SA	X	X				
AGW210-5	CMT	I	SA	X	X				
AGW211-5	CMT	I	SA	X	X				
AGW213	CV	D	SA	X	X				
AGW214	CV	I	SA	X	X				
AGW215	CV	I	SA	X	X				
AGW217	CV	I	SA	X	X				
AGW218	CV	I	SA	X	X				
AGW219	CV	I	SA	X	X				

Table 3-5
Phase VII Groundwater Monitoring Plan
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Well Type	Groundwater Zone	Phase VII Frequency	VOCs 8260 (a)	VOCs VC 8260 SIM (b)	NA Parameters (c)	Metals, Dissolved 6010	DRO/ORO NWTPH-Dx	GRO NWTPH-Gx
AGW220	CV	I	SA	X	X				
AGW221	CV	I	SA	X	X				
AGW225	CV	S (WT)	Q	X	X	X			
AGW226	CV	S (WT)	Q	X	X	X			
AGW227	CV	I	SA	X	X				
AGW228	CV	S	SA	X	X				
AGW229	CV	S (WT)	SA	X	X				
AGW234	CV	D	SA	X	X				
AGW235-2	CMT	S	SA	X	X				
AGW235-4	CMT	I	SA	X	X				
AGW236	CV	S	SA	X	X				
AGW237	CV	D	SA	X	X				
AGW238	CV	I	SA	X	X				
AGW239	CV	S	SA	X	X				
AGW240-1	CMT	S (WT)	Q	X	X	X			
AGW240-5	CMT	S	Q	X	X	X			
AGW241-1	CMT	S (WT)	SA	X	X				
AGW241-5	CMT	S	SA	X	X				
AGW242-1	CMT	S (WT)	SA	X	X				
AGW243-1	CMT	S (WT)	SA	X	X				
AGW244	CV	S (WT)	SA	X	X				
AGW245	CV	S (WT)	SA	X	X				
AGW246	CV	S (WT)	SA	X	X				
AGW247-1	CMT	S (WT)	Q	X	X	X			
AGW247-5	CMT	S	Q	X	X	X			
AGW248-1	CMT	S (WT)	SA	X	X				
AGW248-5	CMT	S	SA	X	X				
AGW249-1	CMT	S (WT)	SA	X	X				
AGW249-5	CMT	S	SA	X	X				
AGW250-1	CMT	S (WT)	SA	X	X				
AGW250-2	CMT	S	SA	X	X				
AGW250-3	CMT	I	SA	X	X				
AGW250-6	CMT	D	SA	X	X				
AGW251-1	CMT	S (WT)	Q	X	X	X			
AGW251-2	CMT	S	Q	X	X	X			
AGW251-3	CMT	I	Q	X	X	X			
AGW251-6	CMT	D	SA	X	X				
AGW252	CV	D	SA	X	X				
AGW253	CV	I	A	X	X				
AGW254-1	CMT	S (WT)	SA	X	X				
AGW254-2	CMT	S	SA	X	X				
AGW254-5	CMT	I	SA	X	X				
AGW255-1	CMT	S (WT)	SA	X	X				
AGW255-3	CMT	S	SA	X	X				
AGW255-5	CMT	I	SA	X	X				
AGW259	CV	D	SA	X	X				
AGW260	CV	D	SA	X	X				

Table 3-5
Phase VII Groundwater Monitoring Plan
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Well Type	Groundwater Zone	Phase VII Frequency	VOCs 8260 (a)	VOCs VC 8260 SIM (b)	NA Parameters (c)	Metals, Dissolved 6010	DRO/ORO NWTPH-Dx	GRO NWTPH-Gx
AGW261	CV	S	SA	X	X				
AGW264	CV	D	SA	X	X				
AGW265	CV	I	SA	X	X				
AGW266	CV	S	SA	X	X				
AGW267	CV	I	SA	X	X				
AGW268	CV	D	SA	X	X				
AGW269	CV	S	Q	X	X	X			
AGW270	CV	S	Q	X	X	X			
AGW271	CV	S	Q	X	X	X			
AGW272	CV	S	Q	X	X	X			
AGW273	CV	S	Q	X	X	X			
AGW274	CV	S	Q	X	X	X			
AGW275	CV	S	Q	X	X	X			
AGW276-2	CMT	S	Q	X	X				
AGW276-5	CMT	I	Q	X	X				
AGW276-7	CMT	D	Q	X	X				
IW34	INJ	I	Q	X	X	X			
IW36	INJ	I	Q	X	X	X			
IW37	INJ	I	Q	X	X	X			
APP-057	CV	S	SA	X	X				

A = annually (June)
As = arsenic
Cd = cadmium
CMT = continuous multi-channel tubing
CV = conventional
D = deep zone
I = intermediate zone
INJ = injection
NA = natural attenuation
Ni = nickel
ORO = oil-range organics
Q = quarterly (March, June, September, December)
S = shallow zone
SA = semi-annually (June and December)
SIM = selected ion monitoring
S(WT) = water table
DRO = diesel-range organics
NWTPH-Dx = Method Northwest diesel-range total petroleum hydrocarbon extended
GRO = gasoline-range organics
NWTPH-Gx = Method Northwest gasoline-range total petroleum hydrocarbon extended
VC = vinyl chloride
VOC = volatile organic compound

a. VOCs by U.S. Environmental Protection Agency (EPA) Method 8260.
b. VC by EPA Method 8260 (SIM).
c. NA parameters may include acetylene, methane, ethene, and ethane by Method RSKSOP-175 Modified, Sulfide by Method S 4500-S2, D-2000, Sulfate by IC Method #300, Total Organic Carbon by Method 415.1, and dissolved oxygen/oxygen reduction potential/Iron II field measurements.

Table 3-6
Site-Wide Surface Water Sampling Matrix
Boeing Auburn Remedial Investigation
Auburn, Washington

Surface Water ID	Water Body	Most Recent Sample Date	VOCs 8260 (a)	VOCs 8260 SIM (b)	NA Parameters (c)
Surface Water					
SW-1	Auburn Environmental Park	6/19/2012	X	X	
SW-2	Mill Creek	6/19/2012	X	X	
SW-3	The Outlet Collection Stormwater Ponds	6/20/2012	X	X	
SW-3	The Outlet Collection Stormwater Ponds	3/24/2014	X	X	
SW-4	Chicago Avenue Ditch	6/20/2012	X	X	
SW-5	Auburn 400 South Pond	6/20/2012	X	X	
SW-6	Government Canal	6/20/2012	X	X	
SW-7	Auburn Environmental Park	6/19/2012	X	X	
SW-8	Auburn Environmental Park	6/19/2012	X	X	
SW-9	Wetland west of SR 167	6/19/2012	X	X	
SW-10	The Outlet Collection Stormwater Ponds	3/24/2014	X	X	
SW-11	Auburn 400 North Pond	6/19/2012	X	X	
SW-12	O Street Wetland	4/2/2014	X	X	
SW-14	Auburn 400 South Pond	9/23/2015	X	X	
SW-15	Auburn 400 South Pond	9/5/2014	X	X	
SW-16	Auburn 400 North Pond	9/23/2015	X	X	
SW-17	Wetland west of SR 167	9/23/2015	X	X	
SW-18	Mill Creek	9/23/2015	X	X	
SW-19	Auburn 400 North Pond	9/5/2014	X	X	
SW-20	Wetland west of SR 167	9/23/2015	X	X	
SW-21	Mill Creek	9/5/2014	X	X	
SW-22	Auburn Environmental Park	3/24/2014	X	X	
SW-23	Mill Creek	9/24/2015	X	X	
SW-24	Mill Creek	9/24/2015	X	X	
SW-25	Wetland west of SR 167	9/24/2015	X	X	
SW-26	Wetland west of SR 167	9/24/2015	X	X	
SW-CD1	Chicago Avenue Ditch	9/17/2012	X	X	
SW-CD2	Chicago Avenue Ditch	9/5/2014	X	X	
SW-CD3	Chicago Avenue Ditch	9/17/2012	X	X	
SW-CD4	Chicago Avenue Ditch	9/23/2015	X	X	
SW-CD13	Chicago Avenue Ditch	12/2/2014	X	X	X
Yard Water					
SWYP-01	RES011	1/16/2014	X	X	
SWYP-02	RES011	1/16/2014	X	X	
SWYP-03	RES010	1/16/2014	X	X	
SWYP-04	RES010	1/16/2014	X	X	
SWYP-05	RES010	1/16/2014	X	X	
SWYP-06	RES010	1/16/2014	X	X	

Table 3-6
Site-Wide Surface Water Sampling Matrix
Boeing Auburn Remedial Investigation
Auburn, Washington

Surface Water ID	Water Body	Most Recent Sample Date	VOCs 8260 (a)	VOCs 8260 SIM (b)	NA Parameters (c)
SWYP-07	RES025	1/16/2014	X	X	
SWYP-08	RES025	1/16/2014	X	X	
SWYP-09	RES025	1/16/2014	X	X	
SWYP-10	RES025	1/16/2014	X	X	
SWYP-11	RES026	1/16/2014	X	X	
SWYP-12	RES027	3/13/2014	X	X	
Ditch Water					
SWRD-01	SW of Boundary Blvd and Chicago Ave	11/25/2013	X	X	
SWRD-02	SE of Boundary Blvd and Algona Blvd	11/25/2013	X	X	
SWRD-03	NW of 11th Ave and Algona Blvd, over culvert	11/25/2013	X	X	
SWRD-04	SE of Boundary Blvd and Celery Ave	11/26/2013	X	X	
SWRD-05	SW of 11th Ave and Chicago Ave	11/25/2013	X	X	
SWRD-06	SE of Celery Ave and 11th Ave, on 11th Ave	11/25/2013	X	X	
SWRD-07	SW of 11th Ave and Algona Blvd	11/25/2013	X	X	
SWRD-08	SE of 11th Ave and Algona Blvd	11/25/2013	X	X	
SWRD-09	SE of 11th Ave and Celery Ave, on Celery Ave	11/25/2013	X	X	
SWRD-11	Along 10th Ave, between Celery Ave and Chicago Ave	11/25/2013	X	X	
SWRD-12	SE of Algona Blvd and 10th Ave	11/25/2013	X	X	
SWRD-13	SW of Algona Blvd and 10th Ave	11/25/2013	X	X	
SWRD-14	NE of 9th Ave and Celery Ave	11/25/2013	X	X	
SWRD-15	SE of 9th Ave and Celery Ave	11/25/2013	X	X	
SWRD-16	9th Ave, between Celery Ave and Algona Ave	11/25/2013	X	X	
SWRD-17	SW of 9th Ave and Algona Blvd	11/25/2013	X	X	
SWRD-18	East of Algona Blvd, between 8th Ave and 9th Ave	11/26/2013	X	X	
SWRD-21	SW of Celery Ave and 8th Ave	11/26/2013	X	X	
SWRD-22	NE of Algona Blvd and 8th Ave	11/26/2013	X	X	

ID = identification
NA = natural attenuation
SIM = selected ion method
SR = State Route
VOC = volatile organic compound

Note:

1. The constituents analyzed for each surface water ID were not all necessarily analyzed at the most recent sample date.

a. VOCs by U.S. Environmental Protection Agency (EPA) Method 8260.

b. EPA Method 8260 SIM.

c. NA parameters may include acetylene, methane, ethene, ehthane by Method RSKSOP-175 Modified, Sulfide by Method S 4500-S2, D-2000, Sulfate by IC Method #300, total organic carbon by Method 415.1, and dissolved oxygen/oxygen reduction potential/Iron II field measurements.

Table 3-7
Site-Wide Air Sampling Locations
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample ID	Type of Sample	Location	Date (a)	VOCs TO-15	VOCs TO-15 SIM	VOCs TCE Radiello®
Commerical						
AA01	Ambient Air	Fana	2/28/2012		X	
AA03	Ambient Air	Prologis	2/29/2012		X	
AA04	Ambient Air	Prologis	2/29/2012		X	
AA05	Ambient Air	Fana	8/23/2012		X	
AA07	Ambient Air	YMCA/JA	7/2/2013	X		
AA025	Ambient Air	YMCA	12/17/2013	X		
AA033	Ambient Air	Building 17-70	4/20/2015	X		
AA034	Ambient Air	The Outlet Collection	4/27/2015	X		
AA035	Ambient Air	The Outlet Collection	6/4/2015	X		
AA036	Ambient Air	Los Cabos	6/8/2016	X		
IA01	Indoor Air	Fana	2/28/2012		X	
IA02	Indoor Air	Fana	2/28/2012		X	
IA08	Indoor Air	Prologis	2/29/2012		X	
IA09	Indoor Air	Prologis	2/29/2012		X	
IA10	Indoor Air	Fana	8/23/2012		X	
IA13	Indoor Air	JA	7/2/2013	X		
IA14	Indoor Air	JA	7/2/2013	X		
IA15	Indoor Air	YMCA	7/2/2013	X		
IA16	Indoor Air	YMCA	7/2/2013	X		
IA060	Indoor Air	YMCA	12/17/2013	X		
IA061	Indoor Air	YMCA	12/17/2013	X		
IA075	Indoor Air	Building 17-70	4/20/2015	X		
IA076	Indoor Air	Building 17-70	4/20/2015	X		
IA077	Indoor Air	The Outlet Collection	4/27/2015	X		
IA078	Indoor Air	The Outlet Collection	4/27/2015	X		
IA079	Indoor Air	The Outlet Collection	4/27/2015	X		
IA080	Indoor Air	The Outlet Collection	4/27/2015	X		
IA081	Indoor Air	The Outlet Collection	4/27/2015	X		
IA082	Indoor Air	The Outlet Collection	6/4/2015	X		
IA083	Indoor Air	The Outlet Collection	6/4/2015	X		
IA084	Indoor Air	The Outlet Collection	6/4/2015	X		
IA085	Indoor Air	Los Cabos	6/8/2016	X		
IA086	Indoor Air	Los Cabos	6/8/2016	X		
ASG0244	Soil Gas	Auburn ROW	3/16/2015	X		
ASG0245	Soil Gas	Auburn ROW	3/16/2015	X		
ASG0246	Soil Gas	Auburn ROW	3/16/2015	X		
ASG0247	Soil Gas	Auburn ROW	3/17/2015	X		
ASG0248	Soil Gas	Auburn ROW	3/17/2015	X		

Table 3-7
Site-Wide Air Sampling Locations
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample ID	Type of Sample	Location	Date (a)	VOCs TO-15	VOCs TO-15 SIM	VOCs TCE Radiello®
ASG0249	Soil Gas	Auburn ROW	3/17/2015	X		
ASG0250	Soil Gas	Milwaukee Ave	3/17/2015	X		
ASG0251	Soil Gas	Milwaukee Ave	3/18/2015	X		
ASG0251R	Soil Gas	Milwaukee Ave	4/26/2015	X		
ASG0251R2	Soil Gas	Milwaukee Ave	6/25/2015	X		
ASG0252	Soil Gas	Auburn ROW	3/18/2015	X		
ASG0253	Soil Gas	Auburn ROW	3/18/2015	X		
ASG0254	Soil Gas	Milwaukee Ave	3/18/2015	X		
ASG0255	Soil Gas	Auburn ROW	4/26/2015	X		
ASG0256	Soil Gas	Auburn ROW	4/27/2015	X		
ASG0256R	Soil Gas	Auburn ROW	6/25/2015	X		
ASG0257	Soil Gas	Auburn ROW	4/27/2015	X		
ASG0258	Soil Gas	Auburn ROW	4/27/2015	X		
ASG0259	Soil Gas	Auburn ROW	4/28/2015	X		
ASG0260	Soil Gas	Auburn ROW	4/28/2015	X		
ASG0261	Soil Gas	Auburn ROW	4/28/2015	X		
ASG0261R	Soil Gas	Auburn ROW	6/26/2015	X		
ASG0262	Soil Gas	Auburn ROW	4/29/2015	X		
ASG0263	Soil Gas	Auburn ROW	4/29/2015	X		
SSV45	Soil Gas	JA	2/29/2012	X		
SSV46	Soil Gas	YMCA	2/29/2012	X		
SSV47	Soil Gas	YMCA	2/29/2012	X		
SSV48	Soil Gas	YMCA	2/29/2012	X		
SSV49	Soil Gas	Fana	8/23/2012	X		
SSV062	Soil Gas	YMCA	12/18/2013	X		
SSV069	Soil Gas	Building 17-70	4/21/2015	X		
SSV070	Soil Gas	Building 17-70	4/21/2015	X		
SSV071	Soil Gas	The Outlet Collection	4/28/2015	X		
SSV072	Soil Gas	The Outlet Collection	4/28/2015	X		
SSV073	Soil Gas	The Outlet Collection	4/28/2015	X		
SSV074	Soil Gas	Los Cabos	6/9/2016	X		
SSV075	Soil Gas	Los Cabos	6/9/2016	X		
Industrial						
AA02	Ambient Air	Building 17-07	2/29/2012		X	
AA06	Ambient Air	Building 17-07	4/8/2013	X		
IA03	Indoor Air	Building 17-07	2/29/2012		X	
IA04	Indoor Air	Building 17-07	2/29/2012		X	
IA05	Indoor Air	Building 17-07	2/29/2012		X	
IA06	Indoor Air	Building 17-07	2/29/2012		X	

Table 3-7
Site-Wide Air Sampling Locations
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample ID	Type of Sample	Location	Date (a)	VOCs TO-15	VOCs TO-15 SIM	VOCs TCE Radiello®
IA07	Indoor Air	Building 17-07	2/29/2012		X	
IA11	Indoor Air	Building 17-07	4/8/2013	X		
IA12	Indoor Air	Building 17-07	4/8/2013	X		
SSV01	Soil Gas	Building 17-07	4/22/2011	X		
SSV02	Soil Gas	Building 17-07	4/22/2011	X		
SSV03	Soil Gas	Building 17-07	4/22/2011	X		
SSV04	Soil Gas	Building 17-07	10/6/2011	X		
SSV05	Soil Gas	Building 17-07	8/16/2011		X	
SSV07	Soil Gas	Building 17-07	10/6/2011	X		
SSV08	Soil Gas	Building 17-07	4/22/2011	X		
SSV09	Soil Gas	Building 17-07	4/22/2011	X		
SSV10	Soil Gas	Building 17-07	4/22/2011	X		
SSV11	Soil Gas	Building 17-07	4/22/2011	X		
SSV12	Soil Gas	Building 17-07	4/22/2011	X		
SSV14	Soil Gas	Building 17-07	4/22/2011	X		
SSV15	Soil Gas	Building 17-07	4/22/2011	X		
SSV17	Soil Gas	Building 17-07	10/6/2011	X		
SSV18	Soil Gas	Building 17-07	4/22/2011	X		
SSV20	Soil Gas	Building 17-07	4/22/2011	X		
SSV21	Soil Gas	Building 17-07	4/22/2011	X		
SSV22	Soil Gas	Building 17-07	10/6/2011	X		
SSV23	Soil Gas	Building 17-07	10/6/2011	X		
SSV24	Soil Gas	Building 17-07	4/22/2011	X		
SSV26	Soil Gas	Building 17-07	4/22/2011	X		
SSV27	Soil Gas	Building 17-07	10/6/2011	X		
SSV28	Soil Gas	Building 17-07	10/6/2011	X		
SSV29	Soil Gas	Building 17-07	4/22/2011	X		
SSV30	Soil Gas	Building 17-07	4/22/2011	X		
SSV31	Soil Gas	Building 17-07	4/22/2011	X		
SSV32	Soil Gas	Building 17-07	4/22/2011	X		
SSV33	Soil Gas	Building 17-07	4/22/2011	X		
SSV34	Soil Gas	Building 17-07	4/22/2011	X		
SSV35	Soil Gas	Building 17-07	4/22/2011	X		
SSV36	Soil Gas	Building 17-07	4/22/2011	X		
SSV37	Soil Gas	Building 17-07	4/22/2011	X		
SSV38	Soil Gas	Building 17-07	4/22/2011	X		
SSV39	Soil Gas	Building 17-07	4/22/2011	X		
SSV40	Soil Gas	Building 17-07	4/22/2011	X		
SSV41	Soil Gas	Building 17-07	8/16/2011		X	

Table 3-7
Site-Wide Air Sampling Locations
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample ID	Type of Sample	Location	Date (a)	VOCs TO-15	VOCs TO-15 SIM	VOCs TCE Radiello®
SSV42	Soil Gas	Building 17-07	8/16/2011		X	
SSV43	Soil Gas	Building 17-07	8/16/2011	X		
SSV44	Soil Gas	Building 17-07	8/16/2011		X	
Residential						
AA008	Ambient Air	RES011	7/29/2013		X	
AA009	Ambient Air	RES019	8/1/2013		X	
AA010	Ambient Air	RES011	8/1/2013		X	
AA011	Ambient Air	RES005	8/6/2013	X		
AA012	Ambient Air	RES003	8/15/2013	X		
AA013	Ambient Air	RES004	8/16/2013	X		
AA014	Ambient Air	RES023	8/20/2013	X		
AA015	Ambient Air	RES016	8/23/2013	X		
AA016	Ambient Air	RES018	8/29/2013	X		
AA017	Ambient Air	RES015	9/12/2013	X		
AA018	Ambient Air	RES006	9/15/2013	X		
AA019	Ambient Air	RES012	9/26/2013	X		
AA020	Ambient Air	RES004	10/16/2013	X		
AA021	Ambient Air	RES009	9/26/2013	X		
AA022	Ambient Air	RES023	9/26/2013	X		
AA023	Ambient Air	RES010	10/1/2013	X		
AA024	Ambient Air	RES010	10/30/2013	X		
AA026	Ambient Air	RES014	1/28/2014	X		
AA027	Ambient Air	RES011	2/4/2014	X		
AA028	Ambient Air	RES019	2/21/2014	X		
AA029	Ambient Air	RES012	2/27/2014	X		
AA030	Ambient Air	RES016	3/26/2014	X		
AA031	Ambient Air	RES004	4/3/2014	X		
AA032	Ambient Air	RES004	4/11/2014	X		
AA-CD4	Ambient Air	Chicago Ave Ditch	8/11/2014	X		
AA-CD4	Ambient Air	Chicago Ave Ditch	8/26/2014	X		
AA-CD4	Ambient Air	Chicago Ave Ditch	8/27/2014	X		
OWA-CD4	Ambient Air	Chicago Ave Ditch	8/11/2014	X		
OWA-CD4	Ambient Air	Chicago Ave Ditch	8/26/2014	X		
OWA-CD4	Ambient Air	Chicago Ave Ditch	8/27/2014	X		
CSA0002-R	Indoor Air	RES005	8/26/2013			X
CSA001	Indoor Air	RES011	7/29/2013		X	
CSA002	Indoor Air	RES005	8/6/2013	X		
CSA003	Indoor Air	RES004	8/16/2013	X		X
CSA004	Indoor Air	RES016	8/23/2013	X		

Table 3-7
Site-Wide Air Sampling Locations
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample ID	Type of Sample	Location	Date (a)	VOCs TO-15	VOCs TO-15 SIM	VOCs TCE Radiello®
CSA005	Indoor Air	RES018	8/29/2013	X		
CSA006	Indoor Air	RES015	9/12/2013	X		
CSA007	Indoor Air	RES012	9/26/2013	X		X
CSA008	Indoor Air	RES009	9/26/2013	X		X
CSA009	Indoor Air	RES004	10/16/2013	X		
CSA010	Indoor Air	RES011	2/4/2014	X		
CSA011	Indoor Air	RES012	2/27/2014	X		X
CSA011-R	Indoor Air	RES012	3/19/2014			X
CSA012	Indoor Air	RES016	3/26/2014	X		
CSA013-R	Indoor Air	RES004	4/23/2014			X
CSA014	Indoor Air	RES004	4/11/2014	X		
IA017	Indoor Air	RES011	7/29/2013		X	
IA018	Indoor Air	RES011	8/1/2013		X	
IA019	Indoor Air	RES011	8/1/2013		X	
IA020	Indoor Air	RES019	8/1/2013		X	
IA021	Indoor Air	RES019	8/1/2013		X	
IA022	Indoor Air	RES019	8/1/2013		X	
IA023	Indoor Air	RES005	8/6/2013	X		X
IA024	Indoor Air	RES005	8/6/2013	X		X
IA025	Indoor Air	RES005	8/6/2013	X		X
IA026	Indoor Air	RES003	8/15/2013	X		X
IA027	Indoor Air	RES003	8/15/2013	X		X
IA028	Indoor Air	RES003	8/15/2013	X		X
IA029	Indoor Air	RES004	8/16/2013	X		X
IA030	Indoor Air	RES004	8/16/2013	X		X
IA031	Indoor Air	RES004	8/16/2013	X		X
IA032	Indoor Air	RES023	8/20/2013	X		
IA033	Indoor Air	RES023	8/20/2013	X		
IA034	Indoor Air	RES016	8/23/2013	X		
IA035	Indoor Air	RES016	8/23/2013	X		
IA036	Indoor Air	RES018	8/29/2013	X		
IA037	Indoor Air	RES018	8/29/2013	X		
IA038	Indoor Air	RES018	8/29/2013	X		
IA039	Indoor Air	RES015	9/12/2013	X		
IA040	Indoor Air	RES015	9/12/2013	X		
IA041	Indoor Air	RES015	9/12/2013	X		
IA042	Indoor Air	RES015	9/12/2013	X		
IA043	Indoor Air	RES006	9/15/2013	X		
IA044	Indoor Air	RES006	9/15/2013	X		

Table 3-7
Site-Wide Air Sampling Locations
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample ID	Type of Sample	Location	Date (a)	VOCs TO-15	VOCs TO-15 SIM	VOCs TCE Radiello®
IA046	Indoor Air	RES012	9/26/2013	X		X
IA047	Indoor Air	RES004	10/16/2013	X		
IA048	Indoor Air	RES004	10/16/2013	X		
IA049	Indoor Air	RES009	9/26/2013	X		X
IA050	Indoor Air	RES009	9/26/2013	X		X
IA051	Indoor Air	RES009	9/26/2013	X		X
IA052	Indoor Air	RES010	10/1/2013	X		
IA053	Indoor Air	RES010	10/1/2013	X		
IA054	Indoor Air	RES054	10/1/2013	X		
IA055	Indoor Air	RES004	10/16/2013	X		
IA056	Indoor Air	RES010	10/30/2013	X		
IA057	Indoor Air	RES010	10/30/2013	X		
IA058	Indoor Air	RES010	10/30/2013	X		
IA059	Indoor Air	RES001	10/30/2013	X		
IA062	Indoor Air	RES014	1/28/2014	X		
IA063	Indoor Air	RES011	2/4/2014	X		
IA064	Indoor Air	RES011	2/4/2014	X		
IA065	Indoor Air	RES011	2/4/2014	X		
IA066	Indoor Air	RES019	2/21/2014	X		
IA067	Indoor Air	RES019	2/21/2014	X		
IA068	Indoor Air	RES019	2/21/2014	X		
IA069	Indoor Air	RES012	2/27/2014	X		X
IA070	Indoor Air	RES016	3/26/2014	X		
IA071	Indoor Air	RES016	3/26/2014	X		
IA072	Indoor Air	RES004	4/3/2014	X		X
IA073	Indoor Air	RES004	4/3/2014	X		X
IA074	Indoor Air	RES004	4/3/2014	X		X
SSV050	Soil Gas	RES003	8/13/2013	X		
SSV051	Soil Gas	RES003	8/13/2013	X		
SSV052	Soil Gas	RES004	8/13/2013	X		
SSV053	Soil Gas	RES023	8/21/2013	X		
SSV054	Soil Gas	RES021	8/27/2013	X		
SSV055	Soil Gas	RES021	8/27/2013	X		
SSV056	Soil Gas	RES018	8/30/2013	X		
SSV057	Soil Gas	RES006	9/15/2013	X		
SSV058	Soil Gas	RES012	9/24/2013	X		
SSV059	Soil Gas	RES004	10/16/2013	X		
SSV060	Soil Gas	RES010	10/17/2013	X		
SSV061	Soil Gas	RES010	10/30/2013	X		

Table 3-7
Site-Wide Air Sampling Locations
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample ID	Type of Sample	Location	Date (a)	VOCs TO-15	VOCs TO-15 SIM	VOCs TCE Radiello®
SSV063	Soil Gas	RES014	1/29/2014	X		
SSV064	Soil Gas	RES014	1/29/2014	X		
SSV065	Soil Gas	RES012	2/25/2014	X		
SSV065	Soil Gas	RES012	2/28/2014			
SSV066	Soil Gas	RES021	3/7/2014	X		
SSV067	Soil Gas	RES021	3/7/2014	X		
SSV068	Soil Gas	RES004	4/1/2014	X		

JA = Junior Achievement
ROW = right of way
SIM = selected ion method
TCE = trichloroethene
VOC = volatile organic compound

a. Date indicates when the sampler was installed.

Table 4-1
Major Ion Data Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Location:	AGW034	AGW068	AGW100	AGW101	AGW102	AGW119
Aquifer Depth:	Deep	Shallow	Shallow	Intermediate	Deep	Intermediate
Sample Date:	06/23/2011	06/23/2011	06/24/2011	06/24/2011	06/24/2011	06/23/2011
DISSOLVED METALS (mg/L) Method EPA200.8/SW6010B						
Silicon	**22.6**	**28.9**	**20.2**	**18.2**	**19.4**	**12.9**
TOTAL METALS (mg/L) Method SW6010B						
Calcium	**20.4**	**52.5**	**31.7**	**19.9**	**16.7**	**10.4**
Magnesium	**6.83**	**17.7**	**4.66**	**6.36**	**5.53**	**3.0**
Potassium	**4.7**	**4.1**	**2.8**	**2.5**	**2.6**	**1.5**
Sodium	**10.7**	**11.0**	**7.0**	**6.4**	**6.5**	**4.3**
CONVENTIONALS (mg/L)						
Sulfate (EPA 300.0)	**16.2**	**5.1**	**13.6**	**13.8**	**11.1**	**9.2**
Total Dissolved Solids (EPA 160.1)		**152**	**165**	**129**	**126**	**99.0**
Chloride (EPA 300.0)	**3.4**	**5.2**	**3.0**	**2.9**	**2.6**	**2.4**
Nitrate (EPA 300.0)	**0.1**	0.1 U	**0.1**	**0.5**	**0.4**	**0.5**
Alkalinity, Total (SM2320)	**92.8**	**342**	**118**	**67.4**	**69.2**	**36.7**
Alkalinity as Bicarbonate (SM2320)	**92.8**	**342**	**118**	**67.4**	**69.2**	**36.7**

Table 4-1
Major Ion Data Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Location:	AGW120	AGW136	AGW137	AGW138	AGW156	AGW165
Aquifer Depth:	Shallow	Shallow	Intermediate	Deep	Intermediate	Shallow
Sample Date:	06/23/2011	06/21/2011	06/21/2011	06/21/2011	06/22/2011	06/20-22/2011
DISSOLVED METALS (mg/L) Method EPA200.8/SW6010B						
Silicon	**13.3**	**24.6**	**27.1**	**17.4**	**26.1**	**25.2**
TOTAL METALS (mg/L) Method SW6010B						
Calcium	**21.0**	**24.4**	**29.2**	**16.4**	**42.3**	**22.7**
Magnesium	**4.49**	**8.72**	**9.11**	**4.98**	**12.7**	**7.14**
Potassium	**3.0**	**3.4**	**3.8**	**2.6**	**5.8**	**3.4**
Sodium	**4.7**	**9.3**	**10.0**	**7.3**	**14.4**	**9.6**
CONVENTIONALS (mg/L)						
Sulfate (EPA 300.0)	**24.2**	**21.4**	**17.9**	**15.2**	**4.4**	**14.0**
Total Dissolved Solids (EPA 160.1)	**118**	**206**	**234**	**138**	**246**	**182**
Chloride (EPA 300.0)	**3.4**	**4.4**	**6.4**	**2.4**	**4.8**	**5.2**
Nitrate (EPA 300.0)	**1.1**	0.1 U	0.1 U	**0.4**	0.1 U	0.1 U
Alkalinity, Total (SM2320)	**41.7**	**109**	**137**	**66.7**	**182**	**102**
Alkalinity as Bicarbonate (SM2320)	**41.7**	**109**	**137**	**66.7**	**182**	**102**

Table 4-1
Major Ion Data Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Location:	AGW168	AGW169	AGW174	AGW181	AGW185	White River
Aquifer Depth:	Intermediate	Deep	Intermediate	Intermediate	Deep	
Sample Date:	06/22/2011	06/22/2011	06/23/2011	06/21/2011	06/23/2011	06/23/2011
DISSOLVED METALS (mg/L) Method EPA200.8/SW6010B						
Silicon	**20.6**	**19.5**	**19.3**	**19.8**	**18.9**	**5.54**
TOTAL METALS (mg/L) Method SW6010B						
Calcium	**23.8**	**22.3**	**21.7**	**34.6**	**20.2**	**5.25**
Magnesium	**7.52**	**6.94**	**6.48**	**10.4**	**6.09**	**1.01**
Potassium	**3.3**	**3.0**	**2.8**	**4.1**	**2.7**	**0.5**
Sodium	**8.3**	**7.8**	**10.3**	**14.8**	**10.8**	**2.2**
CONVENTIONALS (mg/L)						
Sulfate (EPA 300.0)	**8.8**	**11.7**	**17.3**	**12.4**	**16.9**	**4.0**
Total Dissolved Solids (EPA 160.1)	**158**	**152**	**163**	**201**	**156**	**38.0**
Chloride (EPA 300.0)	**3.0**	**2.9**	**6.4**	**5.9**	**3.6**	**0.8**
Nitrate (EPA 300.0)	0.1 U	0.1 U	**0.8**	0.1 U	**0.1**	**0.1**
Alkalinity, Total (SM2320)	**96.6**	**90.4**	**79.4**	**151**	**84.0**	**16.5**
Alkalinity as Bicarbonate (SM2320)	**96.6**	**90.4**	**79.4**	**151**	**84.0**	**16.5**

Bold = detected compound
EPA = U.S. Environmental Protection Agency
mg/L = milligrams per liter
U = Indicates the compound was not detected at the reported concentration.

Table 4-2
Bulk Water Isotope Data Results June 2011
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample Name	Sample Date	Bulk Water Isotopes	
		δ^2H ‰ (VSMOW)	$\delta^{18}O$ ‰ (VSMOW)
AGW034	6/23/2011	-89.6	-11.95
AGW068	6/23/2011	-72.0	-9.39
AGW100	6/24/2011	-84.1	-11.18
AGW101	6/24/2011	-89.5	-12.00
AGW102	6/24/2011	-91.3	-12.43
AGW119	6/23/2011	-91.7	-12.24
AGW120	6/23/2011	-89.4	-12.00
AGW136	6/21/2011	-73.9	-9.81
AGW137	6/21/2011	-74.3	-9.70
AGW138	6/21/2011	-89.1	-11.89
AGW156	6/22/2011	-87.1	-11.54
AGW165	6/22/2011	-86.6	-11.62
AGW168	6/22/2011	-88.9	-11.98
AGW169	6/22/2011	-89.0	-11.95
AGW174	6/23/2011	-84.8	-11.36
AGW181	6/21/2011	-84.1	-11.09
AGW185	6/23/2011	-86.5	-11.49
Precipitation	6/23/2011	-60.6	-7.41
White River	6/23/2011	-103.0	-14.12

Units:

δ^2H ‰ = $\{[(^2H/^1H)_{sample} - (^2H/^1H)_{VSMOW}]/(^2H/^1H)_{VSMOW}\}*1000$

$\delta^{18}O$ ‰ = $\{[(^{18}O/^{16}O)_{sample} - (^{18}O/^{16}O)_{VSMOW}]/(^{18}O/^{16}O)_{VSMOW}\}*1000$

Notes:

Bulk water isotopes analyzed by Isotech Laboratories, Inc.

VSMOW = Vienna Standard Mean Ocean Water

Table 4-3
Minumim and Maximum Groundwater Elevations
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Groundwater Zone	Minimum Groundwater Elevation Date	Minimum Groundwater Elevations (ft, msl)	Maximum Groundwater Elevation Date	Maximum Groundwater Elevations (ft, msl)	Fluctuation (ft)
AGW001R (a)	S	12/16/03	68.48	12/29/15	76.59	8.11
AGW002R (a)	S	10/02/06	68.55	12/29/15	75.94	7.39
AGW006R (a)	S	10/26/09	68.73	12/29/15	75.50	6.77
AGW009	S(WT)	10/26/09	69.61	12/29/15	76.38	6.77
AGW010	S(WT)	10/26/09	69.54	12/29/15	76.24	6.70
AGW011	S	10/26/09	69.55	12/29/15	76.33	6.78
AGW012	S	10/26/09	69.57	12/29/15	76.33	6.76
AGW013	S	10/26/09	69.43	12/29/15	76.17	6.74
AGW014	S	10/26/09	69.45	12/29/15	76.36	6.91
AGW015	S	10/26/09	69.48	12/29/15	76.19	6.71
AGW016	S	10/23/08	69.54	12/29/15	76.22	6.68
AGW017	S	10/26/09	69.57	12/29/15	76.27	6.70
AGW018	S	10/23/08	71.42	12/29/15	77.97	6.55
AGW020	S	10/26/09	71.72	12/29/15	77.91	6.19
AGW021	S	10/23/08	71.60	12/29/15	77.43	5.83
AGW022	S	10/23/08	71.65	12/29/15	77.68	6.03
AGW023	S	10/23/08	71.59	12/29/15	77.46	5.87
AGW024	S	08/16/04	68.98	12/30/15	75.70	6.72
AGW025	S	10/26/09	70.36	12/30/15	75.78	5.42
AGW026	S	10/26/09	70.61	12/30/15	75.91	5.30
AGW027	S	10/26/09	69.78	12/30/15	75.78	6.00
AGW028	S	10/27/09	70.57	12/30/15	76.06	5.49
AGW029	S	10/23/08	70.23	12/30/15	75.58	5.35
AGW030	S	10/23/08	70.72	12/30/15	75.63	4.91
AGW031R (a)	S	10/26/09	68.60	12/30/15	75.23	6.63
AGW032	S(WT)	10/26/09	70.12	12/30/15	75.73	5.61
AGW033	S(WT)	10/22/08	68.68	12/30/15	75.18	6.50
AGW034	D	10/27/09	70.17	12/30/15	75.70	5.53
AGW035	D	10/26/09	68.96	12/30/15	75.62	6.66
AGW037	S(WT)	10/26/09	70.44	12/30/15	76.19	5.75
AGW038	S	10/22/08	69.89	12/30/15	75.53	5.64
AGW039	S(WT)	10/27/09	70.65	12/30/15	76.34	5.69
AGW040	S(WT)	10/27/09	70.65	12/30/15	76.33	5.68
AGW042	S	10/26/09	69.68	12/29/15	76.99	7.31
AGW043	S	10/26/09	69.57	12/29/15	76.87	7.30
AGW044	S(WT)	09/28/15	69.53	12/29/15	76.95	7.42
AGW046	S	10/27/09	70.45	12/30/15	76.19	5.74
AGW047	S	10/27/09	70.47	12/30/15	76.21	5.74
AGW048	S	10/27/09	70.43	12/30/15	76.23	5.80
AGW049	S	10/27/09	70.41	12/30/15	76.22	5.81
AGW050	S	10/27/09	70.46	12/30/15	76.17	5.71
AGW053R (a)	S(WT)	10/02/06	68.40	02/06/06	75.94	7.54
AGW055R (a)	I	10/26/09	68.62	12/29/15	75.48	6.86
AGW057R (a)	S	10/26/09	69.41	12/29/15	76.41	7.00

Table 4-3
Minumim and Maximum Groundwater Elevations
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Groundwater Zone	Minimum Groundwater Elevation Date	Minimum Groundwater Elevations (ft, msl)	Maximum Groundwater Elevation Date	Maximum Groundwater Elevations (ft, msl)	Fluctuation (ft)
AGW058R (a)	S(WT)	10/26/09	69.40	12/29/15	76.37	6.97
AGW059R (a)	S	10/26/09	69.38	12/31/15	76.69	7.31
AGW060R (a)	I	10/26/09	69.29	12/31/15	76.67	7.38
AGW064	S(WT)	10/26/09	68.08	12/30/15	74.84	6.76
AGW065	S(WT)	10/26/09	68.45	12/30/15	76.16	7.71
AGW066	S(WT)	10/26/09	68.44	02/03/06	78.94	10.50
AGW067	S(WT)	10/26/09	68.33	02/03/06	78.81	10.48
AGW068	S(WT)	05/26/05	69.35	05/30/14	76.59	7.24
AGW069	S(WT)	10/26/09	68.16	05/30/14	75.08	6.92
AGW072	I	10/22/08	67.93	04/17/06	76.67	8.74
AGW073	D	10/26/09	68.41	06/02/14	84.87	16.46
AGW074	S(WT)	08/17/04	72.23	12/15/03	78.61	6.38
AGW076	S	10/26/09	69.91	12/29/15	77.40	7.49
AGW077	S	10/26/09	70.30	12/29/15	77.57	7.27
AGW078	S	10/26/09	70.30	12/29/15	77.59	7.29
AGW079	S	08/16/04	69.16	06/02/09	80.34	11.18
AGW080	S	10/23/08	71.64	12/31/15	75.91	4.27
AGW081	S(WT)	08/16/04	68.34	12/30/15	76.30	7.96
AGW082	S	08/16/04	68.54	12/30/15	76.06	7.52
AGW083	S	10/26/09	71.33	12/30/15	76.07	4.74
AGW084	S	10/26/09	70.02	12/29/15	77.38	7.36
AGW085	S(WT)	10/26/09	70.00	12/29/15	77.37	7.37
AGW086	S	10/23/08	70.04	12/29/15	77.34	7.30
AGW087	I	12/14/09	67.94	12/29/15	77.54	9.60
AGW088	S(WT)	12/14/09	71.30	12/29/15	77.56	6.26
AGW089	I	08/17/04	72.20	12/29/15	77.99	5.79
AGW090	S	08/17/04	72.26	12/29/15	78.12	5.86
AGW091	I	08/17/04	71.66	12/15/03	78.26	6.60
AGW095R (a)	I	10/26/09	68.62	12/30/15	75.25	6.63
AGW098R (a)	D	10/26/09	68.39	12/30/15	75.18	6.79
AGW100	S	08/16/04	72.12	12/29/15	76.94	4.82
AGW101	I	08/16/04	72.21	12/29/15	76.99	4.78
AGW102	D	08/16/04	72.09	12/29/15	76.82	4.73
AGW103	S	10/23/08	71.51	12/29/15	78.52	7.01
AGW104	S	10/26/09	70.82	12/29/15	77.80	6.98
AGW105	I	10/23/08	70.46	12/30/15	75.38	4.92
AGW106R (a)	S	10/02/06	68.49	12/29/15	75.91	7.42
AGW110R (a)	S	10/02/06	68.44	02/03/06	75.87	7.43
AGW112R (a)	S	10/02/06	68.38	06/03/13	77.47	9.09
AGW115	S(WT)	10/27/09	70.16	12/29/15	77.17	7.01
AGW116	S(WT)	10/27/09	70.44	12/29/15	77.28	6.84
AGW117	S(WT)	10/26/09	70.32	12/29/15	77.44	7.12
AGW118	S(WT)	10/27/09	70.69	12/29/15	77.51	6.82
AGW119	I	10/23/08	73.02	12/29/15	80.21	7.19

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Well	Groundwater Zone	Minimum Groundwater Elevation Date	Minimum Groundwater Elevations (ft, msl)	Maximum Groundwater Elevation Date	Maximum Groundwater Elevations (ft, msl)	Fluctuation (ft)
AGW120	S	10/23/08	73.03	12/29/15	80.29	7.26
AGW121	S	10/23/08	73.66	12/29/15	80.50	6.84
AGW125	S	10/26/09	68.38	12/29/15	75.35	6.97
AGW126	I	10/26/09	68.40	12/29/15	75.44	7.04
AGW127	S(WT)	10/22/08	70.89	12/29/15	77.67	6.78
AGW128	S(WT)	09/28/15	69.02	12/31/15	77.23	8.21
AGW129	S(WT)	10/23/08	70.33	12/29/15	77.23	6.90
AGW130	S(WT)	10/27/09	69.73	12/29/15	76.93	7.20
AGW131	S	10/26/09	69.69	12/30/15	75.88	6.19
AGW132	S	10/23/08	71.42	12/29/15	77.61	6.19
AGW133	S	09/09/08	70.91	12/29/15	77.74	6.83
AGW134	S	10/26/09	69.16	12/30/15	75.37	6.21
AGW135	S	10/26/09	68.72	12/30/15	75.20	6.48
AGW136	S	10/26/09	68.16	12/30/15	75.12	6.96
AGW137	I	10/30/08	67.88	12/30/15	75.13	7.25
AGW138	D	10/26/09	68.14	12/30/15	75.11	6.97
AGW139	I	10/26/09	67.93	12/30/15	75.24	7.31
AGW140	I	10/27/09	68.24	12/30/15	74.97	6.73
AGW141	I	09/23/09	67.72	12/30/15	74.71	6.99
AGW142	D	10/26/09	67.50	12/05/13	78.07	10.57
AGW143	D	10/26/09	69.47	12/31/15	75.82	6.35
AGW144	I	10/28/09	69.75	12/31/15	75.87	6.12
AGW145	I	10/26/09	69.47	12/31/15	75.40	5.93
AGW146	D	10/26/09	69.26	12/31/15	75.66	6.40
AGW147	I	10/26/09	67.88	12/31/15	74.49	6.61
AGW148	I	10/26/09	67.84	12/31/15	74.69	6.85
AGW149	I	10/26/09	67.45	12/31/15	74.28	6.83
AGW150	I	10/26/09	67.35	12/30/15	74.34	6.99
AGW151	I	10/26/09	67.63	12/30/15	75.01	7.38
AGW152	S	10/26/09	69.48	12/30/15	75.89	6.41
AGW153	S	10/26/09	71.43	12/31/15	77.34	5.91
AGW154	I	10/17/11	71.85	12/30/15	76.21	4.36
AGW155	I	10/17/11	71.49	12/30/15	75.70	4.21
AGW156	I	10/17/11	71.08	12/30/15	76.02	4.94
AGW157	I	10/18/11	70.17	03/29/10	75.90	5.73
AGW158	I	12/10/12	65.53	12/31/15	74.40	8.87
AGW159	D	10/18/11	69.79	12/31/15	74.63	4.84
AGW160	I	10/18/11	68.85	12/31/15	74.08	5.23
AGW161	I	10/18/11	68.33	12/29/15	73.77	5.44
AGW162	I	10/17/11	68.59	12/30/15	74.43	5.84
AGW163	I	10/17/11	71.35	12/30/15	76.64	5.29
AGW164	I	10/17/11	71.60	12/30/15	76.29	4.69
AGW165	S	08/25/10	70.90	12/30/15	76.14	5.24
AGW166	I	10/18/11	69.46	12/31/15	73.16	3.70

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Well	Groundwater Zone	Minimum Groundwater Elevation Date	Minimum Groundwater Elevations (ft, msl)	Maximum Groundwater Elevation Date	Maximum Groundwater Elevations (ft, msl)	Fluctuation (ft)
AGW167	D	10/18/11	69.73	12/31/15	73.91	4.18
AGW168	I	10/18/11	69.17	12/31/15	72.98	3.81
AGW169	D	10/18/11	69.31	12/31/15	73.33	4.02
AGW170	I	10/18/11	69.49	12/31/15	73.96	4.47
AGW171	D	10/18/11	69.43	12/31/15	73.93	4.50
AGW172	I	10/18/11	68.42	12/30/15	73.33	4.91
AGW173	I	09/01/10	67.57	12/30/15	72.35	4.78
AGW174	I	10/18/11	67.79	12/29/15	73.03	5.24
AGW175	I	10/18/11	67.01	12/29/15	72.14	5.13
AGW176	I	09/14/10	67.32	12/30/15	71.21	3.89
AGW177	I	09/21/10	68.06	12/31/15	72.09	4.03
AGW178	D	10/18/11	68.76	12/31/15	72.31	3.55
AGW179	I	09/22/10	68.22	12/31/15	73.00	4.78
AGW180	D	10/18/11	68.96	12/31/15	73.29	4.33
AGW181	I	10/17/11	65.38	12/29/15	68.37	2.99
AGW182	I	10/18/11	68.12	12/31/15	70.23	2.11
AGW183	D	12/09/13	67.91	05/30/14	70.16	2.25
AGW184	I	12/12/12	60.44	12/30/15	72.94	12.50
AGW185	D	10/18/11	67.96	12/02/15	74.89	6.93
AGW186	I	09/06/11	65.30	12/29/15	70.22	4.92
AGW187	I	10/18/11	66.07	12/29/15	70.84	4.77
AGW188	I	9/3/13	63.61	12/29/15	66.31	2.70
AGW189	I	09/05/13	67.67	12/30/15	74.07	6.40
AGW190	I	10/18/11	64.90	12/29/15	69.16	4.26
AGW191	I	09/08/11	68.85	05/29/14	70.87	2.02
AGW192	D	09/08/11	63.51	12/31/15	70.97	7.46
AGW193	S	10/18/11	69.41	09/10/14	74.50	5.09
AGW194	S	10/18/11	69.74	12/31/15	74.40	4.66
AGW195	D	10/18/11	66.88	12/30/15	69.61	2.73
AGW196	I	10/18/11	66.77	12/30/15	69.27	2.50
AGW197	D	10/18/11	66.45	12/30/15	69.14	2.69
AGW198	I	10/18/11	66.48	12/30/15	69.01	2.53
AGW199	D	10/18/11	67.27	12/30/15	71.22	3.95
AGW200-1	S	11/18/11	71.65	12/30/15	75.68	4.03
AGW200-2	S	09/05/13	71.57	12/30/15	75.71	4.14
AGW200-3	I	11/18/11	71.67	12/30/15	75.71	4.04
AGW200-6	D	09/05/13	71.15	12/30/15	75.92	4.77
AGW201-1	S	11/21/11	71.52	12/30/15	75.93	4.41
AGW201-2	S	09/05/13	71.42	12/30/15	75.96	4.54
AGW201-5	I	09/05/13	71.26	12/30/15	76.08	4.82
AGW201-6	D	09/05/13	71.22	12/30/15	76.06	4.84
AGW202-1	S	11/22/11	71.46	12/30/15	76.16	4.70
AGW202-2	S	09/05/13	71.38	12/30/15	76.19	4.81
AGW202-4	I	09/05/13	71.28	12/30/15	76.23	4.95

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Well	Groundwater Zone	Minimum Groundwater Elevation Date	Minimum Groundwater Elevations (ft, msl)	Maximum Groundwater Elevation Date	Maximum Groundwater Elevations (ft, msl)	Fluctuation (ft)
AGW202-6	D	09/05/13	71.24	12/30/15	76.23	4.99
AGW203-1	S	11/23/11	71.62	12/30/15	77.44	5.82
AGW203-2	S	09/05/13	71.32	12/30/15	76.57	5.25
AGW203-4	I	09/05/13	71.27	12/30/15	76.49	5.22
AGW203-6	D	09/05/13	71.24	12/30/15	76.50	5.26
AGW204	I	09/03/13	72.74	12/29/15	77.77	5.03
AGW205	I	09/03/13	72.68	12/29/15	77.12	4.44
AGW206	I	09/03/13	72.02	12/30/15	76.87	4.85
AGW207-1	S	12/08/11	68.30	12/30/15	70.10	1.80
AGW207-2	S	09/03/13	67.78	12/30/15	70.08	2.30
AGW207-3	I	12/08/11	68.32	12/30/15	70.09	1.77
AGW207-4	I	09/03/13	67.81	12/30/15	70.12	2.31
AGW207-5	I	12/08/11	68.33	12/30/15	70.12	1.79
AGW207-7	D	09/03/13	67.90	12/30/15	70.30	2.40
AGW208-1	S	12/08/11	68.97	12/30/15	71.25	2.28
AGW208-2	S	09/03/13	68.35	12/30/15	71.24	2.89
AGW208-3	I	12/08/11	68.96	12/30/15	71.28	2.32
AGW208-4	I	09/03/13	68.35	12/30/15	71.29	2.94
AGW208-5	I	12/09/11	69.11	12/30/15	71.71	2.60
AGW208-6	D	09/03/13	68.42	12/30/15	71.70	3.28
AGW208-7	D	12/09/11	69.11	12/30/15	71.78	2.67
AGW209-1	S	12/12/11	69.29	12/30/15	72.01	2.72
AGW209-2	S	09/03/13	68.56	12/30/15	72.01	3.45
AGW209-5	I	09/03/13	68.52	12/30/15	72.13	3.61
AGW209-6	D	09/03/13	68.50	12/30/15	72.02	3.52
AGW210-1	S	12/12/11	69.53	12/30/15	72.89	3.36
AGW210-2	S	09/03/13	68.65	12/30/15	72.84	4.19
AGW210-5	I	09/03/13	68.64	12/30/15	72.87	4.23
AGW210-6	D	09/03/13	68.59	12/30/15	72.85	4.26
AGW211-1	S	12/13/11	69.60	12/30/15	73.23	3.63
AGW211-2	S	09/03/13	68.83	12/30/15	73.24	4.41
AGW211-5	I	09/03/13	68.61	12/30/15	73.48	4.87
AGW211-6	D	09/03/13	68.59	12/30/15	73.46	4.87
AGW212-1	S	06/15/15	70.14	12/29/15	74.33	4.19
AGW212-2	S	09/04/13	68.48	12/29/15	74.53	6.05
AGW212-5	I	09/04/13	68.70	12/29/15	74.09	5.39
AGW212-7	D	09/04/13	68.66	06/18/12	75.92	7.26
AGW213	D	09/04/13	65.43	12/29/15	68.23	2.80
AGW214	I	9/4/2012	64.52	12/29/2015	67.66	3.14
AGW215	I	9/3/2013	62.04	12/6/12	64.47	2.43
AGW216	I	9/4/2013	63.90	12/30/15	67.71	3.81
AGW217	I	9/3/2013	62.62	12/29/15	65.92	3.30
AGW218	I	9/3/2013	62.72	12/29/15	65.72	3.00
AGW219	I	9/4/13	59.11	12/31/15	61.83	2.72

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Well	Groundwater Zone	Minimum Groundwater Elevation Date	Minimum Groundwater Elevations (ft, msl)	Maximum Groundwater Elevation Date	Maximum Groundwater Elevations (ft, msl)	Fluctuation (ft)
AGW220	I	9/4/2012	60.72	4/26/2012	62.72	2.00
AGW221	I	9/4/2013	61.58	5/27/2014	65.05	3.47
AGW222	I	09/03/13	71.65	12/29/15	77.00	5.35
AGW223	D	09/03/13	72.12	12/30/15	76.37	4.25
AGW224	S(WT)	09/05/13	68.69	03/07/13	70.85	2.16
AGW225	S	08/14/15	67.93	12/08/15	70.66	2.73
AGW226	S	08/14/15	67.38	04/01/14	69.80	2.42
AGW227	I	09/10/14	67.00	12/06/15	69.36	2.36
AGW228	S	09/10/14	66.94	12/09/15	69.34	2.40
AGW229	S(WT)	09/04/13	69.74	12/31/15	73.86	4.12
AGW230	D	09/05/13	67.22	12/30/15	72.95	5.73
AGW231	S	06/15/15	66.56	12/30/15	69.00	2.44
AGW232	S	09/05/13	66.90	12/30/15	69.29	2.39
AGW233	D	09/06/13	66.41	12/29/15	70.68	4.27
AGW234	D	06/12/13	66.21	12/30/15	68.63	2.42
AGW235-1	S	08/19/13	66.58	03/11/14	67.61	1.03
AGW235-2	S	08/19/13	66.30	12/11/14	68.61	2.31
AGW235-3	S	06/16/15	67.05	12/30/15	68.50	1.45
AGW235-4	I	09/10/14	66.72	03/11/14	68.68	1.96
AGW235-5	I	06/16/15	67.07	12/30/15	68.50	1.43
AGW235-6	I	06/16/15	67.05	12/30/15	68.48	1.43
AGW235-7	D	06/16/15	67.02	12/30/15	68.50	1.48
AGW236	S	08/19/13	67.29	03/13/14	69.25	1.96
AGW237	D	09/03/14	65.17	12/29/15	66.99	1.82
AGW238	I	06/15/15	64.56	12/29/15	65.86	1.30
AGW239	S	09/03/14	64.54	12/29/15	65.56	1.02
AGW240-1	S(WT)	08/14/15	68.21	12/07/15	69.64	1.43
AGW240-3	S	09/03/14	69.13	12/31/15	70.48	1.35
AGW240-5	S	08/14/15	68.34	12/07/15	70.63	2.29
AGW241-1	S(WT)	09/04/14	69.34	12/31/15	70.24	0.90
AGW241-3	S	09/04/14	69.40	12/31/15	70.90	1.50
AGW241-5	S	09/04/14	69.41	12/31/15	70.93	1.52
AGW242-1	S(WT)	06/16/15	67.81	12/31/15	68.81	1.00
AGW242-2	S	06/16/15	67.78	12/31/15	69.01	1.23
AGW242-3	S	06/16/15	67.82	12/31/15	68.99	1.17
AGW242-4	I	09/03/14	67.94	12/31/15	69.24	1.30
AGW242-5	I	09/03/14	67.95	12/31/15	69.26	1.31
AGW242-6	I	09/03/14	67.96	12/31/15	69.27	1.31
AGW243-1	S(WT)	06/16/15	66.13	12/31/15	67.25	1.12
AGW243-3	S	06/16/15	66.49	03/02/15	68.44	1.95
AGW243-5	I	06/16/15	67.15	12/31/15	68.40	1.25
AGW244	S(WT)	09/05/14	68.33	12/03/15	70.03	1.70
AGW245	S(WT)	06/16/15	67.36	12/03/15	68.70	1.34
AGW246	S(WT)	09/04/14	68.00	12/03/15	69.77	1.77

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Well	Groundwater Zone	Minimum Groundwater Elevation Date	Minimum Groundwater Elevations (ft, msl)	Maximum Groundwater Elevation Date	Maximum Groundwater Elevations (ft, msl)	Fluctuation (ft)
AGW247-1	S(WT)	08/14/15	67.59	12/31/15	69.75	2.16
AGW247-3	S	09/04/14	68.44	12/31/15	69.77	1.33
AGW247-5	S	08/14/15	67.58	12/31/15	69.76	2.18
AGW248-1	S(WT)	09/04/14	68.39	12/08/15	69.87	1.48
AGW248-3	S	09/04/14	68.69	12/31/15	70.45	1.76
AGW248-5	S	09/04/14	68.70	12/08/15	70.54	1.84
AGW249-1	S(WT)	09/05/14	67.76	12/09/15	69.46	1.70
AGW249-3	S	09/05/14	68.41	12/31/15	70.17	1.76
AGW249-5	S	09/05/14	68.38	12/09/15	70.36	1.98
AGW250-1	S(WT)	09/04/14	71.80	12/30/15	75.70	3.90
AGW250-2	S	09/04/14	71.68	12/30/15	75.68	4.00
AGW250-3	I	09/04/14	71.69	12/30/15	75.68	3.99
AGW250-4	I	09/04/14	71.57	12/30/15	75.48	3.91
AGW250-5	I	09/04/14	71.46	12/30/15	75.43	3.97
AGW250-6	D	09/04/14	71.48	12/30/15	75.50	4.02
AGW250-7	D	09/04/14	71.45	12/30/15	75.47	4.02
AGW251-1	S(WT)	08/14/15	69.09	12/31/15	72.14	3.05
AGW251-2	S	08/14/15	69.08	12/31/15	72.17	3.09
AGW251-3	I	08/14/15	69.11	12/31/15	72.28	3.17
AGW251-4	I	09/03/14	70.14	12/31/15	73.52	3.38
AGW251-5	I	09/03/14	70.14	12/31/15	73.51	3.37
AGW251-6	D	09/03/14	70.14	12/31/15	73.50	3.36
AGW251-7	D	09/03/14	70.10	12/31/15	73.49	3.39
AGW252	D	06/15/15	62.06	12/29/15	63.23	1.17
AGW253	I	06/15/15	61.99	12/29/15	63.18	1.19
AGW254-1	S(WT)	06/16/15	61.55	12/10/14	63.26	1.71
AGW254-2	S	06/16/15	61.59	12/29/15	63.07	1.48
AGW254-3	S	06/16/15	61.60	12/29/15	63.09	1.49
AGW254-4	I	06/16/15	61.62	12/29/15	63.08	1.46
AGW254-5	I	06/16/15	61.64	12/29/15	63.09	1.45
AGW254-6	I	06/16/15	61.64	12/29/15	63.09	1.45
AGW255-1	S(WT)	06/16/15	65.94	12/10/14	67.38	1.44
AGW255-3	S	03/03/15	66.77	12/30/15	68.45	1.68
AGW255-5	I	01/13/15	67.78	12/10/14	68.27	0.49
AGW256	I	12/03/14	71.16	12/30/15	75.92	4.76
AGW257	S	12/03/14	70.95	12/30/15	75.78	4.83
AGW258	S	12/01/15	71.31	03/02/15	74.59	3.28
AGW259	D	06/16/15	61.63	12/29/15	63.09	1.46
AGW260	D	06/16/15	67.96	12/31/15	69.27	1.31
AGW261	S	12/01/15	71.60	12/31/15	73.25	1.65
AGW262	S(WT)	06/16/15	68.52	12/31/15	69.30	0.78
AGW263	S(WT)	06/16/15	67.98	12/22/15	69.27	1.29
AGW264	D	12/31/15	66.39	04/09/15	70.78	4.39
AGW265	I	06/16/15	69.84	12/31/15	71.51	1.67

Table 4-3
Minumim and Maximum Groundwater Elevations
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Groundwater Zone	Minimum Groundwater Elevation Date	Minimum Groundwater Elevations (ft, msl)	Maximum Groundwater Elevation Date	Maximum Groundwater Elevations (ft, msl)	Fluctuation (ft)
AGW266	S	06/15/15	62.45	12/29/15	64.24	1.79
AGW267	I	12/01/15	68.82	12/31/15	70.86	2.04
AGW268	D	06/16/15	68.20	12/31/15	71.35	3.15
AGW269	S	08/27/15	68.50	12/30/15	71.41	2.91
AGW270	S	08/13/15	68.72	12/30/15	71.28	2.56
AGW271	S	08/13/15	68.66	12/30/15	71.19	2.53
AGW272	S	08/13/15	67.98	12/30/15	70.18	2.20
AGW273	S	08/13/15	68.15	12/07/15	70.46	2.31
AGW274	S	08/13/15	68.26	12/30/15	70.53	2.27
AGW275	S	08/13/15	68.35	12/30/15	70.42	2.07
AGW276-1	S(WT)	12/08/15	72.49	12/30/15	74.48	1.99
AGW276-2	S	12/08/15	72.49	12/30/15	74.46	1.97
AGW276-3	S	12/08/15	72.51	12/30/15	74.47	1.96
AGW276-4	I	12/09/15	72.35	12/30/15	75.00	2.65
AGW276-5	I	12/30/15	74.95	12/08/15	75.13	0.18
AGW276-6	D	12/08/15	72.39	12/30/15	74.98	2.59
AGW276-7	D	12/08/15	72.33	12/30/15	74.92	2.59
APP-057	S	6/15/15	63.64	12/09/15	65.59	1.95
APP-058	S	06/15/15	65.16	12/29/15	66.34	1.18
APP-069	S	06/15/15	61.96	12/29/15	63.16	1.20

D = deep zone
ft = feet
I = intermediate zone
msl = mean sea level
S = shallow zone
S(WT) = shallow zone (water table)

Note:

1. Water table is a subset of the shallow zone.
2. Vertical Datum: National Geodetic Vertical Datum of 1929, US ft (+/-0.01 ft), msl.
3. Water level data presented is for the current monitoring well network.

a. Replacement wells (signified by R) minimum and maximum groundwater elevation includes comparison with original well groundwater elevation.

Table 4-4
Porosity and Bulk Density
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Depth (ft bgs)	Dry Density (pcf)	Porosity (unitless)
AGW100	20	84	0.53
AGW101	50	100	0.42
AGW102	110	117	0.31
AGW103	20	79	0.54
AGW104	20	90	0.47
AGW105	50	88	0.52

ft bgs = feet below ground surface
pcf = pounds per cubic foot

Table 4-5a
Vertical Hydraulic Gradient June 2015
Boeing Auburn Remedial Investigation
Auburn, Washington

Well Cluster	Groundwater Zone	Groundwater Elevation (ft, msl)	Ground Surface Elevation (ft, msl)	Center of Screen (bgs)	Center of Screen Elevation (ft, msl)	Water Level Difference (ft)	Screen Elevation Difference (ft)	Vertical Hydraulic Gradient	
AGW100	Shallow	74.75	85.72	20.00	65.72	-0.10	29.92	-0.0033	Upward
AGW101(I)	Intermediate	74.85	85.80	50.00	35.80				
AGW250-2	Shallow	73.44	78.79	26.25	52.54	0.21	25.00	0.0084	Downward
AGW250-4	Intermediate	73.23	78.79	51.25	27.54				
AGW200-2	Shallow	73.11	86.72	29.50	57.22	0.15	30.00	0.0050	Downward
AGW200-5	Intermediate	72.96	86.72	59.50	27.22				
AGW201-2	Shallow	73.13	86.65	29.50	57.15	0.14	30.00	0.0047	Downward
AGW201-5	Intermediate	72.99	86.65	59.50	27.15				
AGW202-2	Shallow	73.14	86.72	30.50	56.22	0.09	20.00	0.0045	Downward
AGW202-4	Intermediate	73.05	86.72	50.50	36.22				
AGW203-2	Shallow	73.19	86.85	29.50	57.35	0.07	19.00	0.0037	Downward
AGW203-4	Intermediate	73.12	86.85	48.50	38.35				
AGW031R	Shallow	71.89	86.22	23.00	63.22	0.21	27.28	0.0077	Downward
AGW095R	Intermediate	71.68	85.94	50.00	35.94				
AGW136	Shallow	71.57	86.89	23.00	63.89	-0.01	15.44	-0.0006	Upward
AGW137	Intermediate	71.58	86.95	38.50	48.45				
AGW193	Shallow	70.74	78.58	24.75	53.83	-0.08	30.28	-0.0026	Upward
AGW166	Intermediate	70.82	78.00	54.45	23.55				
AGW194	Shallow	71.40	82.52	24.50	58.02	-0.06	19.97	-0.0030	Upward
AGW158(I)	Intermediate	71.46	82.55	44.50	38.05				
AGW251-2	Shallow	70.60	76.46	25.25	51.21	-0.70	27.00	-0.0259	Upward
AGW251-4	Intermediate	71.30	76.46	52.25	24.21				
AGW224	Shallow	68.98	73.25	9.45	63.80	0.12	42.90	0.0028	Downward
AGW182	Intermediate	68.86	73.40	52.50	20.90				
AGW225	Shallow	69.00	72.71	9.00	63.71	-0.41	45.99	-0.0089	Upward
AGW191	Intermediate	69.41	72.72	55.00	17.72				
AGW229	Shallow	71.08	80.45	9.90	70.55	-0.03	45.02	-0.0007	Upward
AGW170	Intermediate	71.11	80.53	55.00	25.53				
AGW242-3	Shallow	67.82	70.09	26.75	43.34	-0.17	23.50	-0.0072	Upward
AGW242-5	Intermediate	67.99	70.09	50.25	19.84				
AGW212-2	Shallow	70.89	83.32	29.75	53.57	0.56	30.00	0.0187	Downward
AGW212-5	Intermediate	70.33	83.32	59.75	23.57				
AGW211-2	Shallow	70.25	83.32	29.75	53.57	0.16	30.00	0.0053	Downward
AGW211-5	Intermediate	70.09	83.32	59.75	23.57				
AGW210-2	Shallow	69.92	80.63	30.00	50.63	-0.04	30.00	-0.0013	Upward
AGW210-5	Intermediate	69.96	80.63	60.00	20.63				
AGW209-2	Shallow	69.62	78.73	29.50	49.23	0.00	30.00	0.0000	Neutral
AGW209-5	Intermediate	69.62	78.73	59.50	19.23				
AGW208-2	Shallow	69.25	75.80	29.30	46.50	-0.04	20.00	-0.0020	Upward
AGW208-4	Intermediate	69.29	75.80	49.30	26.50				
AGW207-2	Shallow	68.46	76.87	29.75	47.12	0.00	20.00	0.0000	Neutral
AGW207-4	Intermediate	68.46	76.87	49.75	27.12				
AGW235-2	Shallow	66.40	70.23	18.75	51.48	-0.67	20.00	-0.0335	Upward
AGW235-4	Intermediate	67.07	70.23	38.75	31.48				

Table 4-5a
Vertical Hydraulic Gradient June 2015
Boeing Auburn Remedial Investigation
Auburn, Washington

Well Cluster	Groundwater Zone	Groundwater Elevation (ft, msl)	Ground Surface Elevation (ft, msl)	Center of Screen (bgs)	Center of Screen Elevation (ft, msl)	Water Level Difference (ft)	Screen Elevation Difference (ft)	Vertical Hydraulic Gradient	
AGW232	Shallow	67.77	78.26	25.50	52.76	-0.26	24.67	-0.0105	Upward
AGW196	Intermediate	68.03	78.09	50.00	28.09				
AGW231	Shallow	66.56	73.50	25.00	48.50	-1.33	28.11	-0.0473	Upward
AGW198	Intermediate	67.89	73.39	53.00	20.39				
AGW239	Shallow	64.77	71.16	25.50	45.66	0.21	30.66	0.0068	Downward
AGW238	Intermediate	64.56	71.00	56.00	15.00				
AGW254-3	Shallow	61.6	66.46	31.25	35.21	-0.04	30	-0.0013	Upward
AGW254-6	Intermediate	61.64	66.46	61.25	5.21				
APP-069	Shallow	61.96	65.88	15	50.88	-0.03	27.98	-0.0011	Upward
AGW253	Intermediate	61.99	65.9	43	22.9				
AGW101(I)	Intermediate	74.85	85.80	50.00	35.80	0.16	32.91	0.0049	Downward
AGW102(D)	Deep	74.69	85.89	83.00	2.89				
AGW250-4	Intermediate	73.23	78.79	51.25	27.54	0.03	30.00	0.0010	Downward
AGW250-6	Deep	73.20	78.79	81.25	-2.46				
AGW200-5	Intermediate	72.96	86.72	59.50	27.22	0.12	20.00	0.0060	Downward
AGW200-6	Deep	72.84	86.72	79.50	7.22				
AGW201-5	Intermediate	72.99	86.65	59.50	27.15	0.04	20.00	0.0020	Downward
AGW201-6	Deep	72.95	86.65	79.50	7.15				
AGW202-4	Intermediate	73.05	86.72	50.50	36.22	0.04	30.00	0.0013	Downward
AGW202-6	Deep	73.01	86.72	80.50	6.22				
AGW203-4	Intermediate	73.12	86.85	48.50	38.35	0.03	31.00	0.0010	Downward
AGW203-6	Deep	73.09	86.85	79.50	7.35				
AGW095R	Intermediate	71.68	85.58	50.00	35.58	-0.32	35.02	-0.0091	Upward
AGW098R	Deep	72.00	86.06	85.50	0.56				
AGW137	Intermediate	71.58	86.89	38.50	48.39	0.12	45.19	0.0027	Downward
AGW138	Deep	71.46	86.95	83.75	3.20				
AGW166	Intermediate	70.82	78.00	54.45	23.55	-0.44	34.96	-0.0126	Upward
AGW167	Deep	71.26	78.34	89.75	-11.41				
AGW158(I)	Intermediate	71.46	82.55	44.50	38.05	-0.07	40.41	-0.0017	Upward
AGW159(D)	Deep	71.53	82.64	85.00	-2.36				
AGW251-4	Intermediate	71.30	76.46	52.25	24.21	0.01	24.00	0.0004	Downward
AGW251-6	Deep	71.29	76.46	76.25	0.21				
AGW182	Intermediate	68.86	73.40	52.50	20.90	-0.08	36.81	-0.0022	Upward
AGW183	Deep	68.94	73.34	89.25	-15.91				
AGW191	Intermediate	69.41	72.72	55.00	17.72	-0.09	34.51	-0.0026	Upward
AGW192	Deep	69.50	72.71	89.50	-16.79				
AGW170	Intermediate	71.11	80.53	55.00	25.53	-0.2	22.31	-0.0090	Upward
AGW171	Deep	71.31	80.72	77.50	3.22				
AGW242-5	Intermediate	67.99	69.84	50.25	19.59	0.03	30.62	0.0010	Downward
AGW260	Deep	67.96	69.47	80.50	-11.03				
AGW212-5	Intermediate	70.33	83.32	59.75	23.57	-0.03	39.90	-0.0008	Upward
AGW212-7	Deep	70.36	83.32	99.65	-16.33				
AGW211-5	Intermediate	70.09	82.58	60.00	22.58	0.02	20.00	0.0010	Downward
AGW211-6	Deep	70.07	82.58	80.00	2.58				

Table 4-5a
Vertical Hydraulic Gradient June 2015
Boeing Auburn Remedial Investigation
Auburn, Washington

Well Cluster	Groundwater Zone	Groundwater Elevation (ft, msl)	Ground Surface Elevation (ft, msl)	Center of Screen (bgs)	Center of Screen Elevation (ft, msl)	Water Level Difference (ft)	Screen Elevation Difference (ft)	Vertical Hydraulic Gradient	
AGW210-5	Intermediate	69.96	80.63	60.00	20.63	0.05	20.00	0.0025	Downward
AGW210-6	Deep	69.91	80.63	80.00	0.63				
AGW209-5	Intermediate	69.62	78.73	59.50	19.23	0	20.00	0.0000	Neutral
AGW209-6	Deep	69.62	78.73	79.50	-0.77				
AGW208-4	Intermediate	69.29	75.80	49.30	26.50	-0.14	30.00	-0.0047	Upward
AGW208-6	Deep	69.43	75.80	79.30	-3.50				
AGW207-4	Intermediate	68.46	76.87	49.75	27.12	-0.12	30.25	-0.0040	Upward
AGW207-7	Deep	68.58	76.87	80.00	-3.13				
AGW235-4	Intermediate	67.07	70.23	38.75	31.48	0.05	32.25	0.0016	Downward
AGW235-7	Deep	67.02	70.23	71.00	-0.77				
AGW196	Intermediate	68.03	78.09	50.00	28.09	-0.21	34.91	-0.0060	Upward
AGW195	Deep	68.24	78.18	85.00	-6.82				
AGW198	Intermediate	67.89	73.39	53.00	20.39	0.01	27.14	0.0004	Downward
AGW197	Deep	67.88	73.25	80.00	-6.75				
AGW238	Intermediate	64.56	71.00	56.00	15.00	-1.11	19.18	-0.0579	Upward
AGW237	Deep	65.67	70.82	75.00	-4.18				
AGW254-6	Intermediate	61.64	66.46	61.25	5.21	0.01	10.26	0.0010	Downward
AGW259	Deep	61.63	66.45	71.5	-5.05				
AGW253	Intermediate	61.99	65.9	43	22.90	-0.07	18.99	-0.0037	Upward
AGW252	Deep	62.06	65.91	62	3.91				
AGW100	Shallow	74.75	85.72	20.00	65.72	0.06	62.83	0.0010	Downward
AGW102(D)	Deep	74.69	85.89	83.00	2.89				
AGW250-2	Shallow	73.44	78.79	26.25	52.54	0.24	55.00	0.0044	Downward
AGW250-6	Deep	73.20	78.79	81.25	-2.46				
AGW200-2	Shallow	73.11	86.72	29.50	57.22	0.27	50.00	0.0054	Downward
AGW200-6	Deep	72.84	86.72	79.50	7.22				
AGW201-2	Shallow	73.13	86.65	29.50	57.15	0.18	50.00	0.0036	Downward
AGW201-6	Deep	72.95	86.65	79.50	7.15				
AGW202-2	Shallow	73.14	86.72	30.50	56.22	0.13	50.00	0.0026	Downward
AGW202-6	Deep	73.01	86.72	80.50	6.22				
AGW203-2	Shallow	73.19	86.85	29.50	57.35	0.10	50.00	0.0020	Downward
AGW203-6	Deep	73.09	86.85	79.50	7.35				
AGW031R	Shallow	71.89	86.22	23.00	63.22	-0.11	62.66	-0.0018	Upward
AGW098R	Deep	72.00	86.06	85.50	0.56				
AGW136	Shallow	71.57	86.89	23.00	63.89	0.11	60.69	0.0018	Downward
AGW138	Deep	71.46	86.95	83.75	3.20				
AGW193	Shallow	70.74	78.58	24.75	53.83	-0.52	65.24	-0.0080	Upward
AGW167	Deep	71.26	78.34	89.75	-11.41				
AGW194	Shallow	71.40	82.52	24.50	58.02	-0.13	60.38	-0.0022	Upward
AGW159(D)	Deep	71.53	82.64	85.00	-2.36				
AGW251-2	Shallow	70.60	76.46	25.25	51.21	-0.69	51.00	-0.0135	Upward
AGW251-6	Deep	71.29	76.46	76.25	0.21				
AGW224	Shallow	68.98	73.25	9.45	63.80	0.04	79.71	0.0005	Downward
AGW183	Deep	68.94	73.34	89.25	-15.91				

Table 4-5a
Vertical Hydraulic Gradient June 2015
Boeing Auburn Remedial Investigation
Auburn, Washington

Well Cluster	Groundwater Zone	Groundwater Elevation (ft, msl)	Ground Surface Elevation (ft, msl)	Center of Screen (bgs)	Center of Screen Elevation (ft, msl)	Water Level Difference (ft)	Screen Elevation Difference (ft)	Vertical Hydraulic Gradient	
AGW225	Shallow	69.00	72.71	9.00	63.71	-0.50	80.50	-0.0062	Upward
AGW192	Deep	69.50	72.71	89.50	-16.79				
AGW229	Shallow	71.08	80.45	9.90	70.55	-0.23	67.33	-0.0034	Upward
AGW171	Deep	71.31	80.72	77.50	3.22				
AGW242-3	Shallow	67.82	70.09	26.75	43.34	-0.14	54.37	-0.0026	Upward
AGW260	Deep	67.96	69.47	80.50	-11.03				
AGW212-2	Shallow	70.89	83.32	29.75	53.57	0.53	69.90	0.0076	Downward
AGW212-7	Deep	70.36	83.32	99.65	-16.33				
AGW211-2	Shallow	70.25	83.32	29.75	53.57	0.18	50.99	0.0035	Downward
AGW211-6	Deep	70.07	82.58	80.00	2.58				
AGW210-2	Shallow	69.92	80.63	30.00	50.63	0.01	50.00	0.0002	Downward
AGW210-6	Deep	69.91	80.63	80.00	0.63				
AGW209-2	Shallow	69.62	78.73	29.50	49.23	0.00	50.00	0.0000	Neutral
AGW209-6	Deep	69.62	78.73	79.50	-0.77				
AGW208-2	Shallow	69.25	75.80	29.30	46.50	-0.18	50.00	-0.0036	Upward
AGW208-6	Deep	69.43	75.80	79.30	-3.50				
AGW207-2	Shallow	68.46	76.87	29.75	47.12	-0.12	50.25	-0.0024	Upward
AGW207-7	Deep	68.58	76.87	80.00	-3.13				
AGW235-2	Shallow	66.40	70.23	18.75	51.48	-0.62	52.25	-0.0119	Upward
AGW235-7	Deep	67.02	70.23	71.00	-0.77				
AGW232	Shallow	67.77	78.26	25.50	52.76	-0.47	59.58	-0.0079	Upward
AGW195	Deep	68.24	78.18	85.00	-6.82				
AGW231	Shallow	66.56	73.50	25.00	48.50	-1.32	55.25	-0.0239	Upward
AGW197	Deep	67.88	73.25	80.00	-6.75				
AGW239	Shallow	64.77	71.16	25.50	45.66	-0.90	49.84	-0.0181	Upward
AGW237	Deep	65.67	70.82	75.00	-4.18				
AGW254-3	Shallow	61.60	66.46	31.25	35.21	-0.03	40.26	-0.0007	Upward
AGW259	Deep	61.63	66.45	71.50	-5.05				
APP-069	Shallow	61.96	65.88	15.00	50.88	-0.10	46.97	-0.0021	Upward
AGW252	Deep	62.06	65.91	62.00	3.91				

bgs = below ground surface
ft = foot/feet
msl = mean sea level

Note:

1. Vertical Datum: National Geodetic Vertical Datum of 1929, US ft (+/-0.01 ft), msl.

Table 4-5b
Vertical Hydraulic Gradient December 2015
Boeing Auburn Remedial Investigation
Auburn, Washington

Well Cluster	Groundwater Zone	Groundwater Elevation (ft, msl)	Ground Surface Elevation (ft, msl)	Center of Screen (bgs)	Center of Screen Elevation (ft, msl)	Water Level Difference (ft)	Screen Elevation Difference (ft)	Vertical Hydraulic Gradient	
AGW100	Shallow	76.94	85.72	20.00	65.72	-0.05	29.92	-0.0017	Upward
AGW101(I)	Intermediate	76.99	85.80	50.00	35.80				
AGW250-2	Shallow	75.68	78.79	26.25	52.54	0.20	25.00	0.0080	Downward
AGW250-4	Intermediate	75.48	78.79	51.25	27.54				
AGW200-2	Shallow	75.71	86.72	29.50	57.22	-0.16	30.00	-0.0053	Upward
AGW200-5	Intermediate	75.87	86.72	59.50	27.22				
AGW201-2	Shallow	75.96	86.65	29.50	57.15	-0.12	30.00	-0.0040	Upward
AGW201-5	Intermediate	76.08	86.65	59.50	27.15				
AGW202-2	Shallow	76.19	86.72	30.50	56.22	-0.04	20.00	-0.0020	Upward
AGW202-4	Intermediate	76.23	86.72	50.50	36.22				
AGW203-2	Shallow	76.57	86.85	29.50	57.35	0.08	19.00	0.0042	Downward
AGW203-4	Intermediate	76.49	86.85	48.50	38.35				
AGW031R	Shallow	75.23	86.22	23.00	63.22	-0.02	27.28	-0.0007	Upward
AGW095R	Intermediate	75.25	85.94	50.00	35.94				
AGW136	Shallow	75.12	86.89	23.00	63.89	-0.01	15.44	-0.0006	Upward
AGW137	Intermediate	75.13	86.95	38.50	48.45				
AGW193	Shallow	73.00	78.58	24.75	53.83	-0.16	30.28	-0.0053	Upward
AGW166	Intermediate	73.16	78.00	54.45	23.55				
AGW194	Shallow	74.40	82.52	24.50	58.02	0.00	19.97	0.0000	Neutral
AGW158(I)	Intermediate	74.40	82.55	44.50	38.05				
AGW251-2	Shallow	72.17	76.46	25.25	51.21	-1.35	27.00	-0.0500	Upward
AGW251-4	Intermediate	73.52	76.46	52.25	24.21				
AGW276-2	Shallow	74.46	79.11	25.25	53.86	-0.49	35.00	-0.0140	Upward
AGW276-5	Intermediate	74.95	79.11	60.25	18.86				
AGW224	Shallow	70.50	73.25	9.45	63.80	0.19	42.90	0.0044	Downward
AGW182	Intermediate	70.31	73.40	52.50	20.90				
AGW225	Shallow	70.15	72.71	9.00	63.71	-0.70	45.99	-0.0152	Upward
AGW191	Intermediate	70.85	72.72	55.00	17.72				
AGW229	Shallow	73.86	80.45	9.90	70.55	-0.10	45.02	-0.0022	Upward
AGW170	Intermediate	73.96	80.53	55.00	25.53				
AGW242-3	Shallow	68.99	70.09	26.75	43.34	-0.27	23.50	-0.0115	Upward
AGW242-5	Intermediate	69.26	70.09	50.25	19.84				
AGW212-2	Shallow	74.53	83.32	29.75	53.57	0.44	30.00	0.0147	Downward
AGW212-5	Intermediate	74.09	83.32	59.75	23.57				
AGW211-2	Shallow	73.24	83.32	29.75	53.57	-0.24	30.00	-0.0080	Upward
AGW211-5	Intermediate	73.48	83.32	59.75	23.57				
AGW210-2	Shallow	72.84	80.63	30.00	50.63	-0.03	30.00	-0.0010	Upward
AGW210-5	Intermediate	72.87	80.63	60.00	20.63				
AGW209-2	Shallow	72.01	78.73	29.50	49.23	-0.12	30.00	-0.0040	Upward
AGW209-5	Intermediate	72.13	78.73	59.50	19.23				
AGW208-2	Shallow	71.24	75.80	29.30	46.50	-0.05	20.00	-0.0025	Upward
AGW208-4	Intermediate	71.29	75.80	49.30	26.50				
AGW207-2	Shallow	70.07	76.87	29.75	47.12	-0.04	20.00	-0.0020	Upward
AGW207-4	Intermediate	70.11	76.87	49.75	27.12				

Table 4-5b
Vertical Hydraulic Gradient December 2015
Boeing Auburn Remedial Investigation
Auburn, Washington

Well Cluster	Groundwater Zone	Groundwater Elevation (ft, msl)	Ground Surface Elevation (ft, msl)	Center of Screen (bgs)	Center of Screen Elevation (ft, msl)	Water Level Difference (ft)	Screen Elevation Difference (ft)	Vertical Hydraulic Gradient	
AGW235-2	Shallow	67.63	70.23	18.75	51.48	-0.87	20.00	-0.0435	Upward
AGW235-4	Intermediate	68.50	70.23	38.75	31.48				
AGW232	Shallow	69.29	78.26	25.50	52.76	-0.28	24.67	-0.0113	Upward
AGW196	Intermediate	69.57	78.09	50.00	28.09				
AGW231	Shallow	69.00	73.50	25.00	48.50	-0.30	28.11	-0.0107	Upward
AGW198	Intermediate	69.30	73.39	53.00	20.39				
AGW239	Shallow	65.56	71.16	25.50	45.66	-0.30	30.66	-0.0098	Upward
AGW238	Intermediate	65.86	71.00	56.00	15.00				
AGW254-3	Shallow	63.09	66.46	31.25	35.21	0	30	0.0000	Neutral
AGW254-6	Intermediate	63.09	66.46	61.25	5.21				
APP-069	Shallow	63.16	65.88	15.00	50.88	-0.02	27.98	-0.0007	Upward
AGW253	Intermediate	63.18	65.9	43.00	22.9				
AGW101(I)	Intermediate	76.99	85.80	50.00	35.80	0.17	32.91	0.0052	Downward
AGW102(D)	Deep	76.82	85.89	83.00	2.89				
AGW250-4	Intermediate	75.48	78.79	51.25	27.54	-0.02	30.00	-0.0007	Upward
AGW250-6	Deep	75.50	78.79	81.25	-2.46				
AGW200-5	Intermediate	75.87	86.72	59.50	27.22	-0.05	20.00	-0.0025	Upward
AGW200-6	Deep	75.92	86.72	79.50	7.22				
AGW201-5	Intermediate	76.08	86.65	59.50	27.15	0.02	20.00	0.0010	Downward
AGW201-6	Deep	76.06	86.65	79.50	7.15				
AGW202-4	Intermediate	76.23	86.72	50.50	36.22	0.00	30.00	0.0000	Neutral
AGW202-6	Deep	76.23	86.72	80.50	6.22				
AGW203-4	Intermediate	76.49	86.85	48.50	38.35	-0.01	31.00	-0.0003	Upward
AGW203-6	Deep	76.50	86.85	79.50	7.35				
AGW095R	Intermediate	75.25	85.58	50.00	35.58	-0.10	35.02	-0.0029	Upward
AGW098R	Deep	75.35	86.06	85.50	0.56				
AGW137	Intermediate	75.13	86.89	38.50	48.39	0.02	45.19	0.0004	Downward
AGW138	Deep	75.11	86.95	83.75	3.20				
AGW166	Intermediate	73.16	78.00	54.45	23.55	-0.75	34.96	-0.0215	Upward
AGW167	Deep	73.91	78.34	89.75	-11.41				
AGW158(I)	Intermediate	74.40	82.55	44.50	38.05	-0.23	40.41	-0.0057	Upward
AGW159(D)	Deep	74.63	82.64	85.00	-2.36				
AGW251-4	Intermediate	63.08	76.46	52.25	24.21	-0.01	24.00	-0.0004	Upward
AGW251-6	Deep	63.09	76.46	76.25	0.21				
AGW276-5	Intermediate	74.95	79.11	60.25	18.86	-0.03	20.00	-0.0015	Upward
AGW276-6	Deep	74.98	79.11	80.25	-1.14				
AGW182	Intermediate	70.31	73.40	52.50	20.90	0.87	36.81	0.0236	Downward
AGW183	Deep	69.44	73.34	89.25	-15.91				
AGW191	Intermediate	70.85	72.72	55.00	17.72	-0.12	34.51	-0.0035	Upward
AGW192	Deep	70.97	72.71	89.50	-16.79				
AGW170	Intermediate	73.96	80.53	55.00	25.53	-0.2	22.31	-0.0090	Upward
AGW171	Deep	74.16	80.72	77.50	3.22				
AGW242-5	Intermediate	69.26	69.84	50.25	19.59	-0.01	30.62	-0.0003	Upward
AGW260	Deep	69.27	69.47	80.50	-11.03				

Table 4-5b
Vertical Hydraulic Gradient December 2015
Boeing Auburn Remedial Investigation
Auburn, Washington

Well Cluster	Groundwater Zone	Groundwater Elevation (ft, msl)	Ground Surface Elevation (ft, msl)	Center of Screen (bgs)	Center of Screen Elevation (ft, msl)	Water Level Difference (ft)	Screen Elevation Difference (ft)	Vertical Hydraulic Gradient	
AGW212-5	Intermediate	74.09	83.32	59.75	23.57	0.00	39.90	0.0000	Neutral
AGW212-7	Deep	74.09	83.32	99.65	-16.33				
AGW211-5	Intermediate	73.48	82.58	60.00	22.58	0.02	20.00	0.0010	Downward
AGW211-6	Deep	73.46	82.58	80.00	2.58				
AGW210-5	Intermediate	72.87	80.63	60.00	20.63	0.02	20.00	0.0010	Downward
AGW210-6	Deep	72.85	80.63	80.00	0.63				
AGW209-5	Intermediate	72.13	78.73	59.50	19.23	0.11	20.00	0.0055	Downward
AGW209-6	Deep	72.02	78.73	79.50	-0.77				
AGW208-4	Intermediate	71.29	75.80	49.30	26.50	-0.41	30.00	-0.0137	Upward
AGW208-6	Deep	71.70	75.80	79.30	-3.50				
AGW207-4	Intermediate	70.11	76.87	49.75	27.12	-0.18	30.25	-0.0060	Upward
AGW207-7	Deep	70.29	76.87	80.00	-3.13				
AGW235-4	Intermediate	68.50	70.23	38.75	31.48	0.00	32.25	0.0000	Neutral
AGW235-7	Deep	68.50	70.23	71.00	-0.77				
AGW196	Intermediate	69.57	78.09	50.00	28.09	-0.34	34.91	-0.0097	Upward
AGW195	Deep	69.91	78.18	85.00	-6.82				
AGW198	Intermediate	69.30	73.39	53.00	20.39	-0.15	27.14	-0.0055	Upward
AGW197	Deep	69.45	73.25	80.00	-6.75				
AGW238	Intermediate	65.86	71.00	56.00	15.00	-1.13	19.18	-0.0589	Upward
AGW237	Deep	66.99	70.82	75.00	-4.18				
AGW254-6	Intermediate	63.09	66.46	61.25	5.21	0	10.26	0.0000	Neutral
AGW259	Deep	63.09	66.45	71.5	-5.05				
AGW253	Intermediate	63.18	65.9	43	22.90	-0.05	18.99	-0.0026	Upward
AGW252	Deep	63.23	65.91	62	3.91				
AGW100	Shallow	76.94	85.72	20.00	65.72	0.12	62.83	0.0019	Downward
AGW102(D)	Deep	76.82	85.89	83.00	2.89				
AGW250-2	Shallow	75.68	78.79	26.25	52.54	0.18	55.00	0.0033	Downward
AGW250-6	Deep	75.50	78.79	81.25	-2.46				
AGW200-2	Shallow	75.71	86.72	29.50	57.22	-0.21	50.00	-0.0042	Upward
AGW200-6	Deep	75.92	86.72	79.50	7.22				
AGW201-2	Shallow	75.96	86.65	29.50	57.15	-0.10	50.00	-0.0020	Upward
AGW201-6	Deep	76.06	86.65	79.50	7.15				
AGW202-2	Shallow	76.19	86.72	30.50	56.22	-0.04	50.00	-0.0008	Upward
AGW202-6	Deep	76.23	86.72	80.50	6.22				
AGW203-2	Shallow	76.57	86.85	29.50	57.35	0.07	50.00	0.0014	Downward
AGW203-6	Deep	76.50	86.85	79.50	7.35				
AGW031R	Shallow	75.23	86.22	23.00	63.22	-0.12	62.66	-0.0019	Upward
AGW098R	Deep	75.35	86.06	85.50	0.56				
AGW136	Shallow	75.12	86.89	23.00	63.89	0.01	60.69	0.0002	Downward
AGW138	Deep	75.11	86.95	83.75	3.20				
AGW193	Shallow	73.00	78.58	24.75	53.83	-0.91	65.24	-0.0139	Upward
AGW167	Deep	73.91	78.34	89.75	-11.41				
AGW194	Shallow	74.40	82.52	24.50	58.02	-0.23	60.38	-0.0038	Upward
AGW159(D)	Deep	74.63	82.64	85.00	-2.36				

Table 4-5b
Vertical Hydraulic Gradient December 2015
Boeing Auburn Remedial Investigation
Auburn, Washington

Well Cluster	Groundwater Zone	Groundwater Elevation (ft, msl)	Ground Surface Elevation (ft, msl)	Center of Screen (bgs)	Center of Screen Elevation (ft, msl)	Water Level Difference (ft)	Screen Elevation Difference (ft)	Vertical Hydraulic Gradient	
AGW251-2	Shallow	72.17	76.46	25.25	51.21	9.08	51.00	0.1780	Downward
AGW251-6	Deep	63.09	76.46	76.25	0.21				
AGW276-2	Shallow	74.46	79.11	25.25	53.86	-0.52	55.00	-0.0095	Upward
AGW276-6	Deep	74.98	79.11	80.25	-1.14				
AGW224	Shallow	70.50	73.25	9.45	63.80	1.06	79.71	0.0133	Downward
AGW183	Deep	69.44	73.34	89.25	-15.91				
AGW225	Shallow	70.15	72.71	9.00	63.71	-0.82	80.50	-0.0102	Upward
AGW192	Deep	70.97	72.71	89.50	-16.79				
AGW229	Shallow	73.86	80.45	9.90	70.55	-0.30	67.33	-0.0045	Upward
AGW171	Deep	74.16	80.72	77.50	3.22				
AGW242-3	Shallow	68.99	70.09	26.75	43.34	-0.28	54.37	-0.0052	Upward
AGW260	Deep	69.27	69.47	80.50	-11.03				
AGW212-2	Shallow	74.53	83.32	29.75	53.57	0.44	69.90	0.0063	Downward
AGW212-7	Deep	74.09	83.32	99.65	-16.33				
AGW211-2	Shallow	73.24	83.32	29.75	53.57	-0.22	50.99	-0.0043	Upward
AGW211-6	Deep	73.46	82.58	80.00	2.58				
AGW210-2	Shallow	72.84	80.63	30.00	50.63	-0.01	50.00	-0.0002	Upward
AGW210-6	Deep	72.85	80.63	80.00	0.63				
AGW209-2	Shallow	72.01	78.73	29.50	49.23	-0.01	50.00	-0.0002	Upward
AGW209-6	Deep	72.02	78.73	79.50	-0.77				
AGW208-2	Shallow	71.24	75.80	29.30	46.50	-0.46	50.00	-0.0092	Upward
AGW208-6	Deep	71.70	75.80	79.30	-3.50				
AGW207-2	Shallow	70.07	76.87	29.75	47.12	-0.22	50.25	-0.0044	Upward
AGW207-7	Deep	70.29	76.87	80.00	-3.13				
AGW235-2	Shallow	67.63	70.23	18.75	51.48	-0.87	52.25	-0.0167	Upward
AGW235-7	Deep	68.50	70.23	71.00	-0.77				
AGW232	Shallow	69.29	78.26	25.50	52.76	-0.62	59.58	-0.0104	Upward
AGW195	Deep	69.91	78.18	85.00	-6.82				
AGW231	Shallow	69.00	73.50	25.00	48.50	-0.45	55.25	-0.0081	Upward
AGW197	Deep	69.45	73.25	80.00	-6.75				
AGW239	Shallow	65.56	71.16	25.50	45.66	-1.43	49.84	-0.0287	Upward
AGW237	Deep	66.99	70.82	75.00	-4.18				
AGW254-3	Shallow	63.09	66.46	31.25	35.21	0.00	40.26	0.0000	Neutral
AGW259	Deep	63.09	66.45	71.50	-5.05				
APP-069	Shallow	63.16	65.88	15.00	50.88	-0.07	46.97	-0.0015	Upward
AGW252	Deep	63.23	65.91	62.00	3.91				

bgs = below ground surface
ft = foot/feet
msl = mean sea level

Note:

1. Vertical Datum: National Geodetic Vertical Datum of 1929, US ft (+/-0.01 ft), mean sea level.

Table 4-6
Possible Private Wells of Concern
Boeing Auburn Remedial Investigation
Auburn, Washington

Well ID	Information Source	Owner	Year Constructed	Type of Well	Ground Surface Elevation (ft)	Depth of Well (ft)	Year Water Level Measured	Water Level (ft bgs)	Diameter of well (inches)	Use
21N/04E-13F01	1, 2, 3	J. A. Sumpter	--	Driven	70	53	2/23/1961	Flowing	1 1/2	Domestic
21N/04E-13P01	1, 2, 3, 4	P. Schoordyke	--	Driven	73	50	1961	1	2	Domestic, Stock
21N/04E-14R01	4	--	--	--	73	130.5	--	--	--	--
21N/04E-23B02	1, 2, 3, 4	A. M. Wells	--	Driven	75	30	1/26/1961	1.00	2	Domestic
21N/04E-24B02	4	--	1924	--	77	98	1925	18.00	36	--
21N/04E-24C01	3	B. Maquez	--	Drilled	76	135	5/9/1961	6.59	6	Domestic
21N/04E-25E01	1, 2, 4	--	8/19/1975	Drilled	100	65	8/15/1975	1.35	10	--
21N/04E-26B01	3	C.E. Lane	--	Driven	80	42	1961	0	1 1/2	Domestic

-- = unknown
bgs = below ground surface
ft = foot/feet

Information Source:

1. King County Database
2. U.S. Geological Survey (USGS) Database
3. USGS Water-Supply Bulletin
4. South King County Groundwater Management Plan

Table 4-7
Total Organic Carbon Analytical Results in Soil
Boeing Auburn Remedial Investigation
Auburn, Washington

Boring/Well Sample Depth	Sample Date	Total Organic Compound (Percent)	Notes
AGW095-50	12/16/2003	0.099	
AGW096-25	12/16/2003	2.4	Natural organics
AGW097-50	12/16/2003	0.082	
AGW098-85	12/16/2003	0.066	
AGW099-90	12/16/2003	0.07	
ASB0141-6	5/4/2004	1.1	Petroleum hydrocarbons detected
ASB0141-9	5/4/2004	1.99	Petroleum hydrocarbons detected
ASB0142-12	5/4/2004	0.188	
ASB0142-15	5/4/2004	0.156	
ASB0143-12	5/4/2004	0.194	
ASB0143-15	5/4/2004	0.134	
ASB0144-15	5/4/2004	0.533	
ASB0144-18	5/4/2004	0.066	
ASB0145-12	5/4/2004	0.207	
ASB0145-15	5/4/2004	0.092	
ASB0146-12	5/5/2004	0.471	
ASB0147-15	5/5/2004	0.085	
ASB0148-12	5/5/2004	0.24	
ASB0148-15	5/5/2004	0.614	
ASB0149-15	5/5/2004	0.175	
ASB0149-21	5/5/2004	0.09	
ASB0150-18	5/6/2004	0.043	
ASB0150-21	5/6/2004	0.054	
ASB0151-12	5/6/2004	0.091	
ASB0151-15	5/6/2004	0.104	
ASB0152-12	5/6/2004	0.071	
ASB0152-15	5/6/2004	0.109	
ASB0159-16	8/30/2004	0.084	
ASB0159-18	8/30/2004	0.08	
ASB0160R-17.5	9/7/2004	0.841	Petroleum hydrocarbons detected
ASB0161-14	8/31/2004	0.221	
ASB0161-16	8/31/2004	0.19	
ASB0162-14	8/31/2004	0.108	
ASB0162-15	8/31/2004	0.108	
ASB0163-14	8/31/2004	0.066	
ASB0163-17	8/31/2004	0.127	
ASB0164R-20	9/2/2004	0.12	
ASB0165R-22	9/2/2004	0.116	
ASB0167-15	9/7/2004	0.071	

Table 4-7
Total Organic Carbon Analytical Results in Soil
Boeing Auburn Remedial Investigation
Auburn, Washington

Boring/Well Sample Depth	Sample Date	Total Organic Compound (Percent)	Notes
ASB0167-20	9/7/2004	0.099	
ASB0168-15	9/8/2004	1.01	Petroleum hydrocarbons detected
ASB0168-17.5	9/8/2004	0.092	
ASB0169-15	9/8/2004	0.899	Petroleum hydrocarbons detected
ASB0169-17.5	9/8/2004	0.892	Petroleum hydrocarbons detected
ASB0170-15	9/9/2004	3.28	Petroleum hydrocarbons detected
ASB0170-17.5	9/9/2004	4.88	Petroleum hydrocarbons detected
ASB0171-15	9/9/2004	3.37	Petroleum hydrocarbons detected
ASB0171-17.5	9/9/2004	2.06	Petroleum hydrocarbons detected

Note:

1. ASB designations are for borings. AGW designations are for wells.

Table 4-8
Conductivity June 2011
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Groundwater Zone	Date	Conductivity (µS/cm)
AGW001R	S	6/20/2011	169
AGW002R	S	6/28/2011	387
AGW006R	S	6/24/2011	301
AGW009	S	6/13/2011	307
AGW010	S	6/13/2011	333
AGW024	S	6/13/2011	323
AGW025	S	6/13/2011	265
AGW026	S	6/13/2011	254
AGW027	S	6/13/2011	696
AGW029	S	6/14/2011	302
AGW030	S	6/14/2011	412
AGW031R	S	6/23/2011	489
AGW032	S	6/13/2011	555
AGW033	S	6/14/2011	223
AGW034	D	6/23/2011	260
AGW035	D	6/14/2011	152
AGW037	S	6/20/2011	240
AGW039	S	6/20/2011	368
AGW040	S	6/20/2011	307
AGW041	S	6/21/2011	131
AGW044	S	6/22/2011	187
AGW048	S	6/16/2011	252
AGW049	S	6/16/2011	437
AGW050	S	6/16/2011	1047
AGW053R	S	6/28/2011	280
AGW055R	I	6/24/2011	216
AGW057R	I	6/20/2011	179
AGW058R	S	6/20/2011	343
AGW059R	S	6/20/2011	177
AGW060R	I	6/20/2011	221
AGW064	S	6/24/2011	282
AGW065	S	6/23/2011	37
AGW066	S	6/24/2011	566
AGW067	S	6/20/2011	191
AGW068	S	6/23/2011	844
AGW069	S	6/23/2011	262
AGW072	I	6/24/2011	192
AGW073	D	6/24/2011	170
AGW074	S	6/21/2011	256
AGW078	S	6/15/2011	131

Table 4-8
Conductivity June 2011
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Groundwater Zone	Date	Conductivity (µS/cm)
AGW079	S	6/14/2011	352
AGW081	S	6/14/2011	324
AGW085	S	6/15/2011	128
AGW087	I	6/21/2011	99
AGW088	S	6/21/2011	100
AGW089	I	6/21/2011	104
AGW090	S	6/21/2011	126
AGW091	I	6/21/2011	98
AGW095R	I	6/23/2011	206
AGW098R	D	6/23/2011	150
AGW100	S	6/24/2011	318
AGW101	I	6/24/2011	189
AGW102	D	6/24/2011	177
AGW104	S	6/15/2011	134
AGW105	I	6/14/2011	175
AGW106R	S	6/28/2011	166
AGW110R	S	6/28/2011	330
AGW112R	S	6/28/2011	155
AGW115	S	6/22/2011	183
AGW116	S	6/23/2011	151
AGW117	S	6/23/2011	128
AGW118	S	6/23/2011	135
AGW119	I	6/23/2011	121
AGW120	S	6/23/2011	189
AGW125	S	6/20/2011	275
AGW126	I	6/20/2011	250
AGW127	S	6/21/2011	69
AGW128	S	6/22/2011	165
AGW129	S	6/23/2011	147
AGW130	S	6/22/2011	135
AGW131	S	6/15/2011	421
AGW133	S	6/15/2011	133
AGW134	S	6/14/2011	255
AGW135	S	6/14/2011	318
AGW136	S	6/21/2011	257
AGW137	I	6/21/2011	297
AGW138	D	6/20/2011	164
AGW139	I	6/23/2011	203
AGW140	I	6/23/2011	226
AGW141	I	6/24/2011	334

Table 4-8
Conductivity June 2011
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Groundwater Zone	Date	Conductivity (µS/cm)
AGW142	D	6/24/2011	173
AGW143	D	6/20/2011	144
AGW144	I	6/20/2011	183
AGW145	I	6/20/2011	207
AGW146	D	6/20/2011	162
AGW147	I	6/23/2011	346
AGW148	I	6/23/2011	192
AGW149	I	6/23/2011	190
AGW150	I	6/23/2011	202
AGW151	I	6/23/2011	149
AGW152	S	6/15/2011	308
AGW153	S	6/15/2011	137
AGW154	I	6/15/2011	162
AGW155	I	6/13/2011	294
AGW156	I	6/22/2011	346
AGW157	I	6/20/2011	226
AGW158	I	6/22/2011	255
AGW159	D	6/22/2011	183
AGW160	I	6/24/2011	191
AGW161	I	6/23/2011	167
AGW162	I	6/24/2011	193
AGW163	I	6/15/2011	174
AGW164	I	6/20/2011	174
AGW165	S	6/22/2011	238
AGW166	I	6/24/2011	189
AGW167	D	6/24/2011	171
AGW168	I	6/22/2011	211
AGW169	D	6/22/2011	193
AGW170	I	6/22/2011	217
AGW171	D	6/22/2011	168
AGW172	I	6/24/2011	207
AGW173	I	6/24/2011	211
AGW174	I	6/23/2011	248
AGW175	I	6/23/2011	214
AGW176	I	6/24/2011	186
AGW177	I	6/22/2011	213
AGW178	D	6/22/2011	207
AGW179	I	6/22/2011	449
AGW180	D	6/22/2011	188
AGW181	I	6/21/2011	302

Table 4-8
Conductivity June 2011
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Groundwater Zone	Date	Conductivity (µS/cm)
AGW182	I	6/24/2011	255
AGW183	D	6/24/2011	220
AGW184	I	6/24/2011	262
AGW185	D	6/23/2011	178
AGW186	I	6/24/2011	278
AGW187	I	6/23/2011	268
AGW188	I	6/23/2011	238
AGW189	I	6/24/2011	207
AGW190	I	6/21/2011	286

D = deep zone
I = intermediate zone
µS/cm = microSiemens per centimeter
S = shallow zone

Table 4-9
Information Provided By Natural Attenuation Parameters
Boeing Auburn Remedial Investigation
Auburn, Washington

Field Parameters	Units	Information Provided
DO	mg/L	Aquifer is considered anaerobic at DO concentrations less than 1.0 mg/L.
ORP	mV	Negative values indicate reducing conditions.
pH	unitless	Optimum condition for biological activity is within the range of 6 to 8.
Iron(II)	mg/L	Concentrations above background indicate iron-reducing conditions.

Laboratory Analyses	Units	Information Provided
TOC	mg/L	Measure of available electron donor. Concentrations less than 10 mg/L considered depleted.
Chloride	mg/L	Concentrations above background may result from reductive dechlorination of elevated concentrations of TCE and breakdown products.
Nitrate	mg/L	Concentrations below background indicate nitrate-reducing conditions.
Sulfate	mg/L	Concentrations below background indicate sulfate-reducing conditions.
Sulfide	mg/L	Sulfide concentrations above background indicate sulfate-reducing conditions.
AMEE	µg/L	Concentrations of ethene and ethane are indicative of complete reductive dechlorination to non-toxic end products. Increasing methane concentrations indicate methanogenic aquifer redox conditions. Acetylene indicates the occurrence of abiotic reductive elimination.
Alkalinity	mg/L	Indicates buffering capacity of the aquifer. Increasing alkalinity can also indicate increased microbial activity; metabolism of micro-organisms produces carbon dioxide resulting in dissolution of carbonate minerals, if present.
VOCs	µg/L	Concentrations of TCE breakdown products are indicative of reductive dechlorination.

AMEE = acetylene, methane, ethene, ethane
DO = dissolved oxygen
µg/L = micrograms per liter
mg/L = milligrams per liter
mV = millivolt
ORP = oxygen reduction potential
TCE = trichloroethene
TOC = total organic compound
VOC = volatile organic compound

Table 4-10
Compound Specific Isotope Data Results June 2011
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample Name	Sample Date	Compound Specific Isotope Analysis TCE	
		$\delta^{13}C$ ‰ (VPDB)	$\delta^{37}Cl$ ‰ (SMOC)
AGW136	6/21/2011	-20.6	--
AGW137	6/21/2011	-22.0	3.3
AGW156	6/22/2011	-13.8	5.4
AGW165	6/22/2011	-27.3	3.5
AGW168	6/22/2011	-22.5	4.1
AGW169	6/22/2011	-23.3	3.5
AGW181	6/21/2011	-23.3	3.5

-- = Not analyzed
SMOC = Standard Mean Ocean Chloride
TCE = trichloroethene
VPDB = Vienna Pee Dee Belemnite

Note:
Compound specific isotope analysis analyzed by Universtiy of Oklahoma Isotope Laboratory.

Units:
$\delta^{13}C$ ‰ = $\{[(^{13}C/^{12}C)_{sample} - (^{13}C/^{12}C)_{VPDB}]/(^{13}C/^{12}C)_{VPDB}\}*1000$
$\delta^{37}Cl$ ‰ = $\{[(^{37}CL/^{35}CL)_{sample} - (^{37}CL/^{35}CL)_{SMOC}]/(^{37}CL/^{35}CL)_{SMOC}\}*1000$

Table 5-1
Soil Screening Levels
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	CAS	Soil Protective of Groundwater Vadose (mg/kg) (a)	Exceeds Screening Level in Groundwater	Direct Contact Pathway MTCA Method B: Unrestricted (b)		Laboratory LOQ (c)	Preliminary Screening Levels (mg/kg) (d)	Background Soil Metals Concentrations (mg/kg) (e)	Screening Levels (mg/kg)	Screening Levels in Final Units	Units
				carc. (mg/kg)	non-carc. (mg/kg)						
VOLATILES											
1,1,1-Trichloroethane	71-55-6	1.58E+00	X		1.60E+05		1.58E+00		1.58E+00	**1.58E+03**	µg/kg
1,1,2,2-Tetrachloroethane	79-34-5	1.23E-03	X	5.00E+00	1.60E+03		1.23E-03		1.23E-03	**1.23E+00**	µg/kg
1,1,2-Trichloroethane	79-00-5	4.27E-03	X	1.75E+01	3.20E+02		4.27E-03		4.27E-03	**4.27E+00**	µg/kg
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	1.05E+04			2.40E+06		2.40E+06		2.40E+06	**2.40E+09**	µg/kg
1,1-Dichloroethane	75-34-3	4.19E-02	X	1.75E+02	1.60E+04		4.19E-02		4.19E-02	**4.19E+01**	µg/kg
1,1-Dichloroethene	75-35-4	5.01E-02	X		4.00E+03		5.01E-02		5.01E-02	**5.01E+01**	µg/kg
1,2,4-Trichlorobenzene	120-82-1	5.62E-02		3.45E+01	8.00E+02		3.45E+01		3.45E+01	**3.45E+04**	µg/kg
1,2,4-Trimethylbenzene	95-63-6	---		---	---		---		---	**---**	
1,2-Dichlorobenzene	95-50-1	7.03E+00			7.20E+03		7.20E+03		7.20E+03	**7.20E+06**	µg/kg
1,2-Dichloroethane	107-06-2	2.32E-03	X	1.10E+01	4.80E+02		2.32E-03		2.32E-03	**2.32E+00**	µg/kg
1,2-Dichloroethene (total)	540-59-0				7.20E+02		7.20E+02		7.20E+02	**7.20E+05**	µg/kg
1,2-Dichloropropane	78-87-5	6.25E-03		2.78E+01	7.20E+03		2.78E+01		2.78E+01	**2.78E+04**	µg/kg
1,3,5-Trimethylbenzene	108-67-8	---			8.00E+02		8.00E+02		8.00E+02	**8.00E+05**	µg/kg
1,3-Dichlorobenzene	541-73-1	---		---	---		---		---	**---**	
1,4-Dichlorobenzene	106-46-7	1.34E-01		1.85E+02	5.60E+03		1.85E+02		1.85E+02	**1.85E+05**	µg/kg
2-Butanone/MEK	78-93-3	1.96E+01			4.80E+04		4.80E+04		4.80E+04	**4.80E+07**	µg/kg
4-Isopropyltoluene	99-87-6	---		---	---		---		---	**---**	
4-Methyl-2-Pentanone (MIBK)	108-10-1	4.23E+00			6.40E+03		6.40E+03		6.40E+03	**6.40E+06**	µg/kg
Acetone	67-64-1	2.89E+01			7.20E+04		7.20E+04		7.20E+04	**7.20E+07**	µg/kg
Benzene	71-43-2	4.48E-03	X	1.82E+01	3.20E+02		4.48E-03		4.48E-03	**4.48E+00**	µg/kg
Bromodichloromethane	75-27-4	3.96E-03		1.61E+01	1.60E+03		1.61E+01		1.61E+01	**1.61E+04**	µg/kg
Bromoform	75-25-2	3.63E-02		1.27E+02	1.60E+03		1.27E+02		1.27E+02	**1.27E+05**	µg/kg
Bromomethane	74-83-9	5.18E-02			1.12E+02		1.12E+02		1.12E+02	**1.12E+05**	µg/kg
Carbon Disulfide	75-15-0	5.65E+00			8.00E+03		8.00E+03		8.00E+03	**8.00E+06**	µg/kg
Carbon Tetrachloride	56-23-5	5.75E-03		1.43E+01	3.20E+02		1.43E+01		1.43E+01	**1.43E+04**	µg/kg
Chlorobenzene	108-90-7	8.74E-01			1.60E+03		1.60E+03		1.60E+03	**1.60E+06**	µg/kg
Chloroform	67-66-3	7.51E-03	X	3.23E+01	8.00E+02		7.51E-03		7.51E-03	**7.51E+00**	µg/kg
Chloromethane	74-87-3	---									µg/kg
cis-1,2-Dichloroethene	156-59-2	8.00E-02	X		1.60E+02		8.00E-02		8.00E-02	**8.00E+01**	µg/kg
cis-1,3-Dichloropropene	10061-01-5	---		---	---		---		---	**---**	
Dibromochloromethane	124-48-1	2.77E-03		1.19E+01	1.60E+03		1.19E+01		1.19E+01	**1.19E+04**	µg/kg
Ethylbenzene	100-41-4	6.05E+00	X		8.00E+03		6.05E+00		6.05E+00	**6.05E+03**	µg/kg
Hexachlorobutadiene	87-68-3	6.05E-01		1.28E+01	8.00E+01		1.28E+01		1.28E+01	**1.28E+04**	µg/kg
Isopropylbenzene	98-82-8	---			8.00E+03		8.00E+03		8.00E+03	**8.00E+06**	µg/kg
m,p-Xylene	NA	1.46E+01					1.46E+01		1.46E+01	**1.46E+04**	µg/kg
Methylene Chloride	75-09-2	2.18E-02	X	5.00E+02	4.80E+02		2.18E-02		2.18E-02	**2.18E+01**	µg/kg
Naphthalene	91-20-3	4.46E+00			1.60E+03		1.60E+03		1.60E+03	**1.60E+06**	µg/kg
n-Butylbenzene	104-51-8	---			4.00E+03		4.00E+03		4.00E+03	**4.00E+06**	µg/kg
n-Propylbenzene	103-65-1	---			8.00E+03		8.00E+03		8.00E+03	**8.00E+06**	µg/kg
o-Xylene	95-47-6	1.46E+01	X		1.60E+04		1.46E+01		1.46E+01	**1.46E+04**	µg/kg
sec-Butylbenzene	135-98-8	---			8.00E+03		8.00E+03		8.00E+03	**8.00E+06**	µg/kg
Styrene	100-42-5	2.24E+00			1.60E+04		1.60E+04		1.60E+04	**1.60E+07**	µg/kg
Tetrachloroethene	127-18-4	5.30E-02		4.76E+02	4.80E+02		4.76E+02		4.76E+02	**4.76E+05**	µg/kg
Toluene	108-88-3	4.65E+00	X		6.40E+03		4.65E+00		4.65E+00	**4.65E+03**	µg/kg
trans-1,2-Dichloroethene	156-60-5	5.43E-01			1.60E+03		1.60E+03		1.60E+03	**1.60E+06**	µg/kg
trans-1,3-Dichloropropene	10061-02-6	---		---	---		---		---	**---**	
Trichloroethene	79-01-6	3.57E-03	X	1.20E+01	4.00E+01		3.57E-03		3.57E-03	**3.57E+00**	µg/kg
Trichlorofluoromethane	75-69-4	3.39E+01			2.40E+04		2.40E+04		2.40E+04	**2.40E+07**	µg/kg
Vinyl Acetate	108-05-4	3.31E+01			8.00E+04		8.00E+04		8.00E+04	**8.00E+07**	µg/kg
Vinyl Chloride	75-01-4	1.83E-04	X	6.70E-01	2.40E+02	1.00E-03	1.00E-03		1.00E-03	**1.00E+00**	µg/kg
Xylene	1330-20-7	1.46E+01	X		1.60E+04		1.46E+01		1.46E+01	**1.46E+04**	µg/kg

Table 5-1
Soil Screening Levels
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	CAS	Soil Protective of Groundwater Vadose (mg/kg) (a)	Exceeds Screening Level in Groundwater	Direct Contact Pathway MTCA Method B: Unrestricted (b)		Laboratory LOQ (c)	Preliminary Screening Levels (mg/kg) (d)	Background Soil Metals Concentrations (mg/kg) (e)	Screening Levels (mg/kg)	Screening Levels in Final Units	Units
				carc. (mg/kg)	non-carc. (mg/kg)						
METALS											
Aluminum	7429-90-5	---			8.00E+04		8.00E+04	32,600	8.00E+04	**8.00E+04**	**mg/kg**
Antimony	7440-36-0	5.42E+00	X		3.20E+01		5.42E+00		5.42E+00	**5.42E+00**	**mg/kg**
Arsenic	7440-38-2	4.67E+00	X	6.67E-01	2.40E+01		6.67E-01	7	7.00E+00	**7.00E+00**	**mg/kg**
Barium	7440-39-3	1.65E+03			1.60E+04		1.60E+04		1.60E+04	**1.60E+04**	**mg/kg**
Beryllium	7440-41-7	6.32E+01			1.60E+02		1.60E+02	0.6	1.60E+02	**1.60E+02**	**mg/kg**
Cadmium	7440-43-9	6.90E-01	X		8.00E+01		6.90E-01	1	1.00E+00	**1.00E+00**	**mg/kg**
Chromium III	16065-83-1	---			1.20E+05		1.20E+05	48	1.20E+05	**1.20E+05**	**mg/kg**
Cobalt	7440-48-4	---		---	---		---		---	**---**	
Copper	7440-50-8	2.84E+02	X		3.20E+03		2.84E+02	36	2.84E+02	**2.84E+02**	**mg/kg**
Chromium, Hexavalent	18540-29-9	1.84E+01	X		2.40E+02		1.84E+01		1.84E+01	**1.84E+01**	**mg/kg**
Iron	7439-89-6	5.64E+03			5.60E+04		5.60E+04	36,100	5.60E+04	**5.60E+04**	**mg/kg**
Lead	7439-92-1	3.00E+03			250 (f)		2.50E+02	24	2.50E+02	**2.50E+02**	**mg/kg**
Manganese	7439-96-5	---	X		1.12E+04		1.12E+04	1,200	1.12E+04	**1.12E+04**	**mg/kg**
Mercury	7439-97-6	2.09E+00	X				2.09E+00	0.07	2.09E+00	**2.09E+00**	**mg/kg**
Nickel	7440-02-0	1.30E+02	X		1.60E+03		1.30E+02	48	1.30E+02	**1.30E+02**	**mg/kg**
Selenium	7782-49-2	5.20E+00			4.00E+02		4.00E+02		4.00E+02	**4.00E+02**	**mg/kg**
Silver	7440-22-4	1.36E+01			4.00E+02		4.00E+02		4.00E+02	**4.00E+02**	**mg/kg**
Thallium	7440-28-0	1.00E+00	X		8.00E-01		8.00E-01	1(g)	1.00E+00	**1.00E+00**	**mg/kg**
Titanium	7440-32-6	---		---	---		---		---	**---**	
Vanadium	7440-62-2	1.60E+03	X		4.00E+02		4.00E+02		4.00E+02	**4.00E+02**	**mg/kg**
Zinc	7440-66-6	5.97E+03			2.40E+04		2.40E+04	85	2.40E+04	**2.40E+04**	**mg/kg**
CYANIDE											
Cyanide	57-12-5		X		4.80E+01		4.80E+01		4.80E+01	**4.80E+01**	**mg/kg**
SEMI-VOLATILES											
1-Methylnaphthalene	90-12-0	---	X	3.45E+01	5.60E+03		3.45E+01		3.45E+01	**3.45E+04**	**µg/kg**
2,2'-Oxybis(1-Chloropropane)	108-60-1	3.27E-03		1.43E+01	3.20E+03		1.43E+01		1.43E+01	**1.43E+04**	**µg/kg**
2,4,5-Trichlorophenol	95-95-4	2.88E+01			8.00E+03		8.00E+03		8.00E+03	**8.00E+06**	**µg/kg**
2,4,6-Trichlorophenol	88-06-2	4.62E-02		9.09E+01	8.00E+01		8.00E+01		8.00E+01	**8.00E+04**	**µg/kg**
2,4-Dichlorophenol	120-83-2	1.67E-01			2.40E+02		2.40E+02		2.40E+02	**2.40E+05**	**µg/kg**
2,4-Dimethylphenol	105-67-9	1.31E+00			1.60E+03		1.60E+03		1.60E+03	**1.60E+06**	**µg/kg**
2,4-Dinitrophenol	51-28-5	1.28E-01			1.60E+02		1.60E+02		1.60E+02	**1.60E+05**	**µg/kg**
2,4-Dinitrotoluene	121-14-2	1.67E-03		3.23E+00	1.60E+02		3.23E+00		3.23E+00	**3.23E+03**	**µg/kg**
2,6-Dinitrotoluene	606-20-2	3.14E-04		6.67E-01	2.40E+01		6.67E-01		6.67E-01	**6.67E+02**	**µg/kg**
2-Chloronaphthalene	91-58-7	2.31E+01			6.40E+03		6.40E+03		6.40E+03	**6.40E+06**	**µg/kg**
2-Chlorophenol	95-57-8	4.72E-01			4.00E+02		4.00E+02		4.00E+02	**4.00E+05**	**µg/kg**
2-Methylnaphthalene	91-57-6	---			3.20E+02		3.20E+02		3.20E+02	**3.20E+05**	**µg/kg**
2-Methylphenol	95-48-7	2.33E+00			4.00E+03		4.00E+03		4.00E+03	**4.00E+06**	**µg/kg**
3,3'-Dichlorobenzidine	91-94-1	3.59E-03		2.22E+00			2.22E+00		2.22E+00	**2.22E+03**	**µg/kg**
4-Chloroaniline	106-47-8	1.16E-03		5.00E+00	3.20E+02		5.00E+00		5.00E+00	**5.00E+03**	**µg/kg**
4-Methylphenol	106-44-5	3.94E+00			8.00E+03		8.00E+03		8.00E+03	**8.00E+06**	**µg/kg**
Acenaphthene	83-32-9	9.79E+01			4.80E+03		4.80E+03		4.80E+03	**4.80E+06**	**µg/kg**
Anthracene	120-12-7	2.27E+03			2.40E+04		2.40E+04		2.40E+04	**2.40E+07**	**µg/kg**
Benzo(a)anthracene	56-55-3	---		1.37E+00			(h)		(h)	**(h)**	**µg/kg**
Benzo(a)pyrene	50-32-8	2.33E-01		1.37E-01			1.37E-01		1.37E-01	**1.37E+02**	**µg/kg**
Benzo(b)fluoranthene	205-99-2	---		1.37E+00			(h)		(h)	**(h)**	**µg/kg**
Benzo(g,h,i)perylene	191-24-2	---					---		---	**---**	
Benzo(k)fluoranthene	207-08-9	---		1.37E+01			(h)		(h)	**(h)**	**µg/kg**
Benzoic Acid	65-85-0	2.57E+02			3.20E+05		3.20E+05		3.20E+05	**3.20E+08**	**µg/kg**
Benzyl Alcohol	100-51-6	3.36E+00			8.00E+03		8.00E+03		8.00E+03	**8.00E+06**	**µg/kg**
Bis-(2-Chloroethyl) Ether	111-44-4	2.20E-04		9.09E-01			9.09E-01		9.09E-01	**9.09E+02**	**µg/kg**
bis(2-Ethylhexyl)phthalate	117-81-7	1.34E+01	X	7.14E+01	1.60E+03		1.34E+01		1.34E+01	**1.34E+04**	**µg/kg**
Butylbenzylphthalate	85-68-7	1.28E+01		5.26E+02	1.60E+04		5.26E+02		5.26E+02	**5.26E+05**	**µg/kg**

Table 5-1
Soil Screening Levels
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	CAS	Soil Protective of Groundwater Vadose (mg/kg) (a)	Exceeds Screening Level in Groundwater	Direct Contact Pathway MTCA Method B: Unrestricted (b)		Laboratory LOQ (c)	Preliminary Screening Levels (mg/kg) (d)	Background Soil Metals Concentrations (mg/kg) (e)	Screening Levels (mg/kg)	Screening Levels in Final Units	Units
				carc. (mg/kg)	non-carc. (mg/kg)						
Carbazole	86-74-8	---									µg/kg
Chrysene	218-01-9	---		1.37E+02			(h)		(h)	**(h)**	µg/kg
Dibenz(a,h)anthracene	53-70-3	---		1.37E-01			(h)		(h)	**(h)**	µg/kg
Diethylphthalate	84-66-2	7.22E+01			6.40E+04		6.40E+04		6.40E+04	**6.40E+07**	µg/kg
Dimethylphthalate	131-11-3	---									
Di-n-Butylphthalate	84-74-2	5.65E+01			8.00E+03		8.00E+03		8.00E+03	**8.00E+06**	µg/kg
Di-n-Octyl phthalate	117-84-0	2.66E+05			8.00E+02		8.00E+02		8.00E+02	**8.00E+05**	µg/kg
Fluoranthene	206-44-0	6.31E+02			3.20E+03		3.20E+03		3.20E+03	**3.20E+06**	µg/kg
Fluorene	86-73-7	1.01E+02			3.20E+03		3.20E+03		3.20E+03	**3.20E+06**	µg/kg
Hexachlorobenzene	118-74-1	8.77E-02		6.25E-01	6.40E+01		6.25E-01		6.25E-01	**6.25E+02**	µg/kg
Hexachlorocyclopentadiene	77-47-4	1.92E+02			4.80E+02		4.80E+02		4.80E+02	**4.80E+05**	µg/kg
Hexachloroethane	67-72-1	4.36E-02		2.50E+01	5.60E+01		2.50E+01		2.50E+01	**2.50E+04**	µg/kg
Indeno(1,2,3-cd)pyrene	193-39-5	---		1.37E+00			(h)		(h)	**(h)**	µg/kg
Isophorone	78-59-1	2.27E-01		1.05E+03	1.60E+04		1.05E+03		1.05E+03	**1.05E+06**	µg/kg
Nitrobenzene	98-95-3	1.02E-01			1.60E+02		1.60E+02		1.60E+02	**1.60E+05**	µg/kg
N-Nitroso-Di-N-Propylamine	621-64-7	5.60E-05	X	1.43E-01		3.30E-02	3.30E-02		3.30E-02	**3.30E+01**	µg/kg
N-Nitrosodiphenylamine	86-30-6	5.32E-01		2.04E+02			2.04E+02		2.04E+02	**2.04E+05**	µg/kg
Pentachlorophenol	87-86-5	3.47E-03		2.50E+00	4.00E+02		2.50E+00		2.50E+00	**2.50E+03**	µg/kg
Phenanthrene	85-01-8	---		---	---		---		---	**---**	
Phenol	108-95-2	1.10E+01			2.40E+04		2.40E+04		2.40E+04	**2.40E+04**	µg/kg
Pyrene	129-00-0	6.55E+02			2.40E+03		2.40E+03		2.40E+03	**2.40E+03**	µg/kg
PETROLEUM HYDROCARBONS											
Diesel-Range Organics	DRO		X		2,000 (f)		2,000 (f)		2,000 (h)	**2,000 (h)**	mg/kg
Gasoline-Range Organics	GRO		X		100 (f,i)		100 (f,i)		100 (f,i)	**100 (f,i)**	mg/kg
Oil-Range Organics	ORO		X		2,000 (f)		2,000 (f)		2,000 (h)	**2,000 (h)**	mg/kg
POLYCHLORINATED BIPHENYLS/ PESTICIDES											
Aroclor 1016	12674-11-2			1.43E+01	5.60E+00		5.60E+00		5.60E+00	**5.60E+03**	µg/kg
Aroclor 1221	11104-28-2						(j)		(j)	**(j)**	
Aroclor 1232	11141-16-5						(j)		(j)	**(j)**	
Aroclor 1242	53469-21-9						(j)		(j)	**(j)**	
Aroclor 1248	12672-29-6						(j)		(j)	**(j)**	
Aroclor 1254	11097-69-1			5.00E-01	1.60E+00		5.00E-01		5.00E-01	**5.00E+02**	µg/kg
Aroclor 1260	11096-82-5			5.00E-01			5.00E-01		5.00E-01	**5.00E+02**	µg/kg
Total PCBs	1336-36-3	2.71E-01		0.5 (k)			5.00E-01		5.00E-01	**5.00E+02**	µg/kg
DDD	72-54-8			4.17E+00			4.17E+00		4.17E+00	**4.17E+03**	µg/kg
DDT	50-29-3	3.49E+00		2.94E+00	4.00E+01		2.94E+00		2.94E+00	**2.94E+03**	µg/kg
Methoxychlor	72-43-5				4.00E+02		4.00E+02		4.00E+02	**4.00E+05**	µg/kg

--- = No screening levels available
carc. = carcinogen
CAS = Chemical Abstract Service
DRO = diesel-range organics
GRO = gasoline-range organics
LOQ = limit of quantitation
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
MTCA = Model Toxics Control Act
NA = not applicable
non-carc. = non-carcinogen
ORO = oil-range organics

Notes:

1. If the analyte exceeded screening levels in groundwater, the soil screening level is based on the lowest of soil cleanup level for protection of groundwater and protection of human direct contact (Method B standard formula values for carcinogens and non-carcinogens). If the analyte did not exceed screening levels in groundwater, the soil screening level is based on direct contact.
2. Where applicable, laboratory quantitation limits and natural background concentrations were considered.
3. Screening levels are developed for all constituents detected in soil.

a. Soil protective of groundwater vadose @ 25 degrees Celsius; see guidance equation 747-1.
b. Direct contact pathway (ingestion only)
c. Where LOQ is not listed, the LOQ is less than the groundwater screening level.
d. Before adjustment for background.
e. Puget Sound Region 90th percentile value (Ecology. 1994. Natural Background Soil Metals Concentrations in Washington State. Publication #94-115.)
f. MTCA Method A soil cleanup levels for unrestricted land uses are used for lead, mercury, and petroleum hydrocarbons.
g. Kabata-Pendias, A. 2001. Trace Elements in Soils and Plants, Third Edition. 2001.
Bradford, G.R. et al. 1996. Background concentrations of Trace and Major Elements in California Soils. March.
h. Evaluated using toxic equivalent concentration based on benzo(a)pyrene.
i. For gasoline mixtures without benzene and the total of ethylbenzene, toluene and xylene is less than 1 percent of the gasoline mixture.
j. Evaluated using screening level for total polychlorinated biphenyls.
k. Toxic Substances Control Act soil cleanup level for high occupancy areas is 1 mg/kg.

Table 5-2
Groundwater Screening Levels
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	CAS	ARARs MCL		MTCA Method B Standard Formula Values		Preliminary Screening Levels (a) µg/L	Background Water (b) µg/L	Screening Levels in µg/L	Screening Levels in Final Units	Units
		Federal MCL µg/L	WA State MCL µg/L	carc. µg/L	non-carc. µg/L					
VOLATILES										
1,1,1-Trichloroethane	71-55-6	200	200		16,000	200		2.00E+02	2.00E+02	µg/L
1,1,2,2-Tetrachloroethane	79-34-5			0.219	160	0.219		2.19E-01	2.19E-01	µg/L
1,1,2-Trichloroethane	79-00-5	5	5	0.768	32	0.768		7.68E-01	7.68E-01	µg/L
1,1,2-Trichlorotrifluoroethane	76-13-1				240,000	240,000		2.40E+05	2.40E+05	µg/L
1,1-Dichloroethane	75-34-3			7.68	1,600	7.68		7.68E+00	7.68E+00	µg/L
1,1-Dichloroethene	75-35-4	7	7		400	7		7.00E+00	7.00E+00	µg/L
1,2,4-Trichlorobenzene	120-82-1	70	70	1.51	80	1.51		1.51E+00	1.51E+00	µg/L
1,2-Dichlorobenzene	95-50-1	600	600		720	600		6.00E+02	6.00E+02	µg/L
1,2-Dichloroethane	107-06-2	5	5	0.481	48	0.481		4.81E-01	4.81E-01	µg/L
1,2-Dichloropropane	78-87-5	5	5	1.22	720	1.22		1.22E+00	1.22E+00	µg/L
1,4-Dichlorobenzene	106-46-7	75	75	8.10	560	8.10		8.10E+00	8.10E+00	µg/L
2-Butanone/MEK	78-93-3				4,800	4,800		4.80E+03	4.80E+03	µg/L
2-Chlorotoluene	95-49-8				160	160		1.60E+02	1.60E+02	µg/L
2-Hexanone	591-78-6	---	---	---	---	---		---	---	
4-Methyl-2-Pentanone (MIBK)	108-10-1				640	640		6.40E+02	6.40E+02	µg/L
Acetone	67-64-1				7,200	7,200		7.20E+03	7.20E+03	µg/L
Benzene	71-43-2	5	5	0.795	32	0.795		7.95E-01	7.95E-01	µg/L
Bromodichloromethane	75-27-4	80	80	0.706	160	0.706		7.06E-01	7.06E-01	µg/L
Bromoform	75-25-2	80	80	5.54	160	5.54		5.54E+00	5.54E+00	µg/L
Bromomethane	74-83-9				11.2	11.2		1.12E+01	1.12E+01	µg/L
Carbon Disulfide	75-15-0				800	800		8.00E+02	8.00E+02	µg/L
Carbon Tetrachloride	56-23-5	5	5	0.625	32	0.625		6.25E-01	6.25E-01	µg/L
Chlorobenzene	108-90-7	100	100		160	100		1.00E+02	1.00E+02	µg/L
Chloroethane	75-00-3	---	---	---	---	---		---	---	µg/L
Chloroform	67-66-3	80	80	1.41	80	1.41		1.41E+00	1.41E+00	µg/L
Chloromethane	74-87-3	---	---	---	---	---		---	---	µg/L
cis-1,2-Dichloroethene	156-59-2	70	70		16	16		1.60E+01	1.60E+01	µg/L
cis-1,3-Dichloropropene	10061-01-5	---	---	---	---	---		---	---	
Dibromochloromethane	124-48-1	80	80	0.521	160	0.521		5.21E-01	5.21E-01	µg/L
Ethylbenzene	100-41-4	700	700		800	700		7.00E+02	7.00E+02	µg/L
Hexachlorobutadiene	87-68-3			0.561	8	0.561		5.61E-01	5.61E-01	µg/L
m,p-Xylene	NA				1,600	1,600		1.60E+03	1600(e)	µg/L
Methylene Chloride	75-09-2	5	5	21.9	48	5		5.00E+00	5.00E+00	µg/L
Naphthalene	91-20-3				160	160		1.60E+02	1.60E+02	µg/L
o-Xylene	95-47-6				1,600	1,600		1.60E+03	1.60E+03	µg/L
Styrene	100-42-5	100	100		1,600	100		1.00E+02	1.00E+02	µg/L
Tetrachloroethene	127-18-4	5	5	20.83	48	5		5.00E+00	5.00E+00	µg/L
Toluene	108-88-3	1,000	1,000		640	640		6.40E+02	6.40E+02	µg/L
trans-1,2-Dichloroethene	156-60-5	100	100		160	100		1.00E+02	1.00E+02	µg/L
trans-1,3-Dichloropropene	10061-02-6	---	---	---	---	---		---	---	
Trichloroethene	79-01-6	5	5	0.54	4	0.54		5.40E-01	5.40E-01	µg/L
Trichlorofluoromethane	75-69-4				2,400	2,400		2.40E+03	2.40E+03	µg/L
Vinyl Acetate	108-05-4				8,000	8,000		8.00E+03	8.00E+03	µg/L
Vinyl Chloride	75-01-4	2	2	0.029	24	0.029		2.90E-02	2.90E-02	µg/L
Xylene	1330-20-7	10,000	10,000		1,600	1,600		1.60E+03	1.60E+03	µg/L
METALS										
Aluminum	7429-90-5				16,000	16,000		1.60E+04	1.60E+01	mg/L
Antimony	7440-36-0	6	6		6.4	6		6.00E+00	6.00E-03	mg/L
Arsenic	7440-38-2	10	10	0.0583	4.8	0.06	8	8.00E+00	8.00E-03	mg/L
Barium	7440-39-3	2,000	2,000		3,200	2,000		2.00E+03	2.00E+00	mg/L
Beryllium	7440-41-7	4	4		32	4		4.00E+00	4.00E-03	mg/L
Cadmium	7440-43-9	5	5		8	5	2.0	5.00E+00	5.00E-03	mg/L
Chromium (total)	7440-47-3	100	100			100	10	1.00E+02	1.00E-01	mg/L
Chromium (hexavalent)	18540-29-9				48	48		4.80E+01	4.80E-02	mg/L

Table 5-2
Groundwater Screening Levels
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	CAS	ARARs MCL		MTCA Method B Standard Formula Values		Preliminary Screening Levels (a) µg/L	Background Water (b) µg/L	Screening Levels in µg/L	Screening Levels in Final Units	Units
		Federal MCL µg/L	WA State MCL µg/L	carc. µg/L	non-carc. µg/L					
Cobalt	7440-48-4	---	---	---	---	---		---	---	
Copper	7440-50-8	1,300	1,300		640	640	20	6.40E+02	6.40E-01	mg/L
Hexavalent Chromium	18540-29-9				48	48		4.80E+01	4.80E-02	mg/L
Iron	7439-89-6				11,200	11,200		1.12E+04	1.12E+01	mg/L
Lead	7439-92-1	15	15			15	10	1.50E+01	1.50E-02	mg/L
Manganese	7439-96-5				2,240	2,240		2.24E+03	2.24E+00	mg/L
Mercury	7439-97-6	2	2			2		2.00E+00	2.00E-03	mg/L
Nickel	7440-02-0		100		320	100		1.00E+02	1.00E-01	mg/L
Selenium	7782-49-2	50	50		80	50		5.00E+01	5.00E-02	mg/L
Silver	7440-22-4				80	80		8.00E+01	8.00E-02	mg/L
Thallium	7440-28-0	2	2		0.16	0.16		1.60E-01	1.60E-04	mg/L
Titanium	7440-32-6	---	---	---	---	---		---	---	
Vanadium	7440-62-2				80	80		8.00E+01	8.00E-02	mg/L
Zinc	7440-66-6				4,800	4,800	160	4.80E+03	4.80E+00	mg/L
CYANIDE										
Cyanide	57-12-5	200	200		9.6	9.6		9.60E+00	9.60E-03	mg/L
SEMI-VOLATILES										
1-Methylnaphthalene	90-12-0			1.51	560	1.51		1.51E+00	1.51E+00	µg/L
2,2'-Oxybis(1-Chloropropane)	108-60-1			0.625	320	0.625		6.25E-01	6.25E-01	µg/L
2,4,5-Trichlorophenol	95-95-4				800	800		8.00E+02	8.00E+02	µg/L
2,4,6-Trichlorophenol	88-06-2			3.98	8	3.98		3.98E+00	3.98E+00	µg/L
2,4-Dichlorophenol	120-83-2				24	24		2.40E+01	2.40E+01	µg/L
2,4-Dimethylphenol	105-67-9				160	160		1.60E+02	1.60E+02	µg/L
2,4-Dinitrophenol	51-28-5				32	32		3.20E+01	3.20E+01	µg/L
2,4-Dinitrotoluene	121-14-2			0.282	32	0.282		2.82E-01	2.82E-01	µg/L
2,6-Dinitrotoluene	606-20-2			0.0583	4.8	0.0583		5.83E-02	5.83E-02	µg/L
2-Chloronaphthalene	91-58-7				640	640		6.40E+02	6.40E+02	µg/L
2-Chlorophenol	95-57-8				40	40		4.00E+01	4.00E+01	µg/L
2-Methylnaphthalene	91-57-6				32	32		3.20E+01	3.20E+01	µg/L
2-Methylphenol	95-48-7				400	400		4.00E+02	4.00E+02	µg/L
3,3'-Dichlorobenzidine	91-94-1			0.194		0.194		1.94E-01	1.94E-01	µg/L
4-Chloroaniline	106-47-8			0.219	32	0.219		2.19E-01	2.19E-01	µg/L
4-Methylphenol (p-cresol)	106-44-5				800	800		8.00E+02	8.00E+02	µg/L
Acenaphthene	83-32-9				960	960		9.60E+02	9.60E+02	µg/L
Anthracene	120-12-7				4,800	4,800		4.80E+03	4.80E+03	µg/L
Benzo(a)anthracene	56-55-3			0.120		0.120		(d)	(d)	µg/L
Benzo(a)pyrene	50-32-8	0.2		0.012		0.012		0.012 (d)	0.012 (d)	µg/L
Benzo(b)fluoranthene	205-99-2			0.120		0.120		(d)	(d)	µg/L
Benzo(k)fluoranthene	207-08-9			1.20		1.20		(d)	(d)	µg/L
Benzoic Acid	65-85-0				64,000	64,000		6.40E+04	6.40E+04	µg/L
Benzyl Alcohol	100-51-6				800	800		8.00E+02	8.00E+02	µg/L
Bis-(2-Chloroethyl) Ether	111-44-4			0.0398		0.0398		3.98E-02	3.98E-02	µg/L
bis(2-Ethylhexyl)phthalate	117-81-7	6		6.25	320	6		6.00E+00	6.00E+00	µg/L
Butylbenzylphthalate	85-68-7			46.1	3,200	46.1		4.61E+01	4.61E+01	µg/L
Carbazole	86-74-8	---	---	---	---	---		---	---	
Chrysene	218-01-9			12.0		12.0		(d)	(d)	µg/L
Dibenz(a,h)anthracene	53-70-3			0.0120		0.0120		(d)	(d)	µg/L
Dibenzofuran	132-64-9				16	16		1.60E+01	1.60E+01	µg/L
Diethylphthalate	84-66-2				12,800	12,800		1.28E+04	1.28E+04	µg/L
Dimethylphthalate	131-11-3	---	---	---	---	---		---	---	µg/L
Di-n-Butylphthalate	84-74-2				1,600	1,600		1.60E+03	1.60E+03	µg/L
Di-n-Octyl phthalate	117-84-0				160	160		1.60E+02	1.60E+02	µg/L
Fluoranthene	206-44-0				640	640		6.40E+02	6.40E+02	µg/L
Fluorene	86-73-7				640	640		6.40E+02	6.40E+02	µg/L
Hexachlorobenzene	118-74-1	1	1	0.0547	12.8	0.0547		5.47E-02	5.47E-02	µg/L

Table 5-2
Groundwater Screening Levels
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	CAS	ARARs MCL		MTCA Method B Standard Formula Values		Preliminary Screening Levels (a) µg/L	Background Water (b) µg/L	Screening Levels in µg/L	Screening Levels in Final Units	Units
		Federal MCL µg/L	WA State MCL µg/L	carc. µg/L	non-carc. µg/L					
Hexachlorocyclopentadiene	77-47-4	50	50		48	48		4.80E+01	4.80E+01	µg/L
Hexachloroethane	67-72-1			1.09	5.6	1.09		1.09E+00	1.09E+00	µg/L
Indeno(1,2,3-cd)pyrene	193-39-5			0.120		0.120		(d)	(d)	µg/L
Isophorone	78-59-1			46.1	1600	46.1		4.61E+01	4.61E+01	µg/L
Nitrobenzene	98-95-3				16	16		1.60E+01	1.60E+01	µg/L
N-Nitroso-Di-N-Propylamine	621-64-7			0.0125		0.0125		1.25E-02	1.25E-02	µg/L
N-Nitrosodiphenylamine	86-30-6			17.9		17.9		1.79E+01	1.79E+01	µg/L
Pentachlorophenol	87-86-5	1		0.219	80	0.219		2.19E-01	2.19E-01	µg/L
Phenanthrene	85-01-8	---	---	---	---	---		---	---	
Phenol	108-95-2				2,400	2,400		2.40E+03	2.40E+03	µg/L
Pyrene	129-00-0				480	480		4.80E+02	4.80E+02	µg/L
PETROLEUM HYDROCARBONS										
Diesel-Range Organics	DRO				500 (e)	500 (e)		500 (e)	0.5 (e)	mg/L
Gasoline-Range Organics	GRO				800 (e) (f)	800 (e) (f)		800 (e) (f)	0.8 (e) (f)	mg/L
Oil-Range Organics	ORO				500 (e)	500 (e)		500 (e)	0.5 (e)	mg/L
POLYCHLORINATED BIPHENYLS/ PESTICIDES										
Aroclor 1016	12674-11-2			1.25	1.12	1.12		1.12E+00	1.12E+00	µg/L
Aroclor 1221	11104-28-2					(e)		(e)	(e)	
Aroclor 1232	11141-16-5					(e)		(e)	(e)	
Aroclor 1242	53469-21-9					(e)		(e)	(e)	
Aroclor 1248	12672-29-6					(e)		(e)	(e)	
Aroclor 1254	11097-69-1			0.0438	0.32	0.0438		4.38E-02	4.38E-02	µg/L
Aroclor 1260	11096-82-5			0.0438		0.0438		4.38E-02	4.38E-02	µg/L
Total PCBs	1336-36-3	0.5	0.5	0.0438		0.0438		4.38E-02	4.38E-02	µg/L
Dieldrin	60-57-1			0.00547	0.8	0.00547		5.47E-03	5.47E-03	µg/L
Toxaphene	8001-35-2	3.00	3.00	0.0795		0.0795		7.95E-02	7.95E-02	µg/L
DDT	50-29-3			0.257	8	0.257		2.57E-01	2.57E-01	µg/L
DDE	72-55-9			0.257		0.257		2.57E-01	2.57E-01	µg/L

--- = No screening levels available for this analyte
ARARs = applicable or relevant and appropriate requirements
carc. = carcinogenic
CAS = Chemical Abstracts Service
DRO = diesel-range organics
GRO = gasoline-range organics
MCL = maximum contaminant level
MTCA = Model Toxics Control Act
µg/L = micrograms per liter
mg/L = milligrams per liter
NA = not applicable
non-carc. = non-carcinogenic
ORO = oil-range organics

Notes:

1. Screening level is based on lowest of federal or state MCL, and Method B standard formula values.
2. Screening levels are developed for all constituents detected in groundwater or soil.

a. Before adjustment for background.
b. Draft report from PTI 1989 90th percentile value.
c. Screening level for m-xylene and p-xylene is used for the sum of the two isomers.
d. Evaluated using benzo(a)pyrene toxic equivalent concentration [benzo(a)pyrene toxicity equivalency quotient].
e. MTCA Method A groundwater cleanup levels are used for petroleum hydrocarbons.
f. For gasoline mixtures, if benzene is present. If benzene is not present, screening level is 1,000 µg/L (1.0 mg/L).

Table 5-3
Surface Water Screening Levels
Boeing Auburn Remedial Investigation
Auburn, Washington

Surface Water Area Designation		Screening Level Criteria	Screening Level (µg/L)							
Area	Area Description		Acetone	Chloroform	Carbon Disulfide	PCE	TCE	Toluene	cDCE	VC
Area A	Mill Creek - West of SR 167, North of SR 18, East of West Valley Hwy	Criteria for potable surface water (based on consumption of drinking water and aquatic organisms)	7200	55	--	10	0.6 (a)	57	16 (b)	0.022 (a)
Area B	Wetlands - West of SR 167, South of SR 18, East of West Valley Hwy, North of 15th Street SW	Criteria for non-potable surface water (based on consumption of aquatic organisms only)	7200	55	--	10	7.0 (c)	57	--	1.6 (c)
Area C	Stormwater ponds and infrastructure east of SR 167, South of SR 18, North of Boundary Blvd	MTCA Modified Method B standard (based on worker exposure scenario) (e)	7200	55	--	10	58	57	-- (d)	98
Area D	Algona ditches and standing water south of Boundary Blvd to 7th Ave North, East of SR 167 to Chicago Ave	MTCA Modified Method B standard (based on child and worker exposure scenarios) (e)	7200	55	--	10	58	57	-- (d)	15

-- = No criteria available; no screening level established
cDCE = cis-1,2-dichloroethene
µg/L = micrograms per liter
PCE = tetrachloroethene
SR = State Route
TCE = trichloroethene
VC = vinyl chloride

Note:

1. No federal critera for protection of aquatic organisms are available for the listed analytes.

a. Clean Water Act § 304 criteria for protection of human health for surface water used as drinking water is the most stringent criteria for potable surface water.
b. Screening level based on MTCA Method B standard formula value for groundwater as drinking water. No surface water criteria available. No data available for protection of fresh surface water that is not drinking water.
c. Clean Water Act § 304 criteria for protection of human health for surface water not used as drinking water is the most stringent criteria for non-potable surface water.
d. Screening criteria for cDCE have not been calculated.
e. Based on reasonable maximum, site-specific exposure. When both child and workder exposure scenarios are applicable, the most conservative value was selected for screening levels. Worker exposure scenarios (TCE = 58 µg/L; VC = 98 µg/L); child exposure scenarios (TCE = 77 µg/L; VC = 15 µg/L).

Table 5-4
Vapor Intrusion Screening Levels
Boeing Auburn Remedial Investigation
Auburn, Washington

Industrial

Constituent of Concern	Air (µg/m³) (a)			Screening Levels Calculated Using MTCA Method C			
	MTCA Method C		EPA Region 10 Value (b) IAAL Sub-Chronic (non-carc.)	Soil Gas (µg/m³)		Groundwater (µg/L) (d)	
	carc.	non-carc.		carc.	non-carc.	carc.	non-carc.
Tetrachloroethene	96	40	--	3200	1300	240	100
Trichloroethene	6.3	2.0	8.4	210	67	26	8.4
Vinyl Chloride	2.8	100	--	95	3300	3.5	120

Commercial

Constituent of Concern	Air (µg/m³) (a)			Screening Levels Calculated Using MTCA Method B			
	Modified MTCA Method B (b)		EPA Region 10 Value IAAL Sub-Chronic (non-carc.) (c)	Soil Gas (µg/m³)		Groundwater (µg/L) (d)	
	carc.	non-carc.		carc.	non-carc.	carc.	non-carc.
Tetrachloroethene	29	120	--	960	4000	73	305
Trichloroethene	1.9	6.0	8.4	63	200	7.9	25
Vinyl Chloride	0.85	300	--	28	10000	1.0	370

Residential

Constituent of Concern	Air (µg/m³) (a)			Screening Levels Calculated Using MTCA Method B			
	MTCA Method B		EPA Region 10 Value IAAL Sub-Chronic (non-carc.) (b)	Soil Gas (µg/m³)		Groundwater (µg/L)	
	carc.	non-carc.		carc.	non-carc.	carc.	non-carc.
Tetrachloroethene	9.6	18	--	320	610	24	47
Trichloroethene	0.37	0.91	2.0	12	30	1.6	3.8
Vinyl Chloride	0.28	46	--	9.5	1500	0.35	56
trans-1,2-Dichloroethene	--	27.4	--	--	907	--	46

-- = not applicable
carc. = carcinogenic
EPA = U.S. Environmental Protection Agency
IAALs = indoor air action levels
µg/L = micrograms per liter
µg/m³ = micrograms per cubic meter
MTCA = Model Toxics Control Act
non-carc. = non-carcinogenic

Note:

1. Tan shading inidcates the most conservative screening level.

a. Air screening criteria will be applied to indoor air samples, crawl space and basement air samples, and ambient air samples.

b. Method for calculating modified Method B air screening levels for commercial land use was defined by Ecology in Ecology response comments to the draft vapor intrusion data report (Ecology 2012a).

c. Ecology has requested that Boeing apply the sub-chronic non-carcinogenic indoor air action level from EPA Region 10 (EPA. 2012. Memorandum: OEA Recommendations Regarding Trichloroethylene Toxicity in Human health Risk Assessments. US EPA Region 10. December 13). value as an IAAL when air sampling is conducted where a woman of child bearing age resides. Once the EPA Office of Solid Waste and Emergency Response creates an official value, the EPA Region 10 sub-chronic value will be replaced.

d. The Henry's Law constant used to calculate the shallow groundwater screening level assumes a temperature of 13 degrees Celsius per the U.S. temperature map provided by EPA Online Tools for Site Assessment Calculation for Henry's Law Constants.

Table 5-5
Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	Screening Level	Number of Screening Level Exceedances	Number of Results	Number of Detections	Maximum Detection	Percent Detected	Percent Exceedances
VOLATILES (µg/kg)							
1,1,1,2-Tetrachloroethane	--	0	20	0		**0%**	**0%**
1,1,1-Trichloroethane	1.58E+03	0	113	2	35	**2%**	**0%**
1,1,2,2-Tetrachloroethane	1.23E+00	0	112	0		**0%**	**0%**
1,1,2-Trichloro-1,2,2-Trifluoroethane	2.40E+09	0	107	2	7.6	**2%**	**0%**
1,1,2-Trichloroethane	4.27E+00	0	112	0		**0%**	**0%**
1,1-Dichloroethane	4.19E+01	0	123	1	2.6	**1%**	**0%**
1,1-Dichloroethene	5.01E+01	0	112	0		**0%**	**0%**
1,1-Dichloropropene	--	0	13	0		**0%**	**0%**
1,2,3-Trichlorobenzene	--	0	13	0		**0%**	**0%**
1,2,3-Trichloropropane	--	0	13	0		**0%**	**0%**
1,2,4-Trichlorobenzene	3.45E+04	0	17	0		**0%**	**0%**
1,2,4-Trimethylbenzene	--	0	24	1	1300	**4%**	**0%**
1,2-Dibromo-3-chloropropane	--	0	13	0		**0%**	**0%**
1,2-Dibromoethane	--	0	13	0		**0%**	**0%**
1,2-Dichlorobenzene	7.20E+06	0	32	15	235000	**47%**	**0%**
1,2-Dichloroethane	2.32E+00	0	112	0		**0%**	**0%**
1,2-Dichloroethene	7.20E+05	0	8	8	4500	**100%**	**0%**
1,2-Dichloropropane	2.78E+04	0	105	0		**0%**	**0%**
1,3,5-Trimethylbenzene	8.00E+05	0	18	1	370	**6%**	**0%**
1,3-Dichlorobenzene	--	0	20	7	30510	**35%**	**0%**
1,3-Dichloropropane	--	0	13	0		**0%**	**0%**
1,4-Dichlorobenzene	1.85E+05	1	34	17	260000	**50%**	**3%**
2,2-Dichloropropane	--	0	13	0		**0%**	**0%**
2-Butanone/MEK	4.80E+07	0	121	51	130	**42%**	**0%**
2-Chloroethyl vinyl ether	--	0	105	0		**0%**	**0%**
2-Chlorotoluene	--	0	13	0		**0%**	**0%**
2-Hexanone	--	0	105	0		**0%**	**0%**
4-Chlorotoluene	--	0	13	0		**0%**	**0%**
4-Isopropyltoluene	--	0	18	1	100	**6%**	**0%**
4-Methyl-2-pentanone	6.40E+06	0	116	4	6200	**3%**	**0%**
Acetone	7.20E+07	0	129	106	7300	**82%**	**0%**
Acrolein	--	0	13	0		**0%**	**0%**
Acrylonitrile	--	0	13	0		**0%**	**0%**
Benzene	4.48E+00	3	120	19	860	**16%**	**3%**
Bromobenzene	--	0	13	0		**0%**	**0%**
Bromochloromethane	--	0	13	0		**0%**	**0%**
Bromodichloromethane	1.61E+04	0	105	0		**0%**	**0%**
Bromoform	1.27E+05	0	105	0		**0%**	**0%**
Bromomethane	1.12E+05	0	105	0		**0%**	**0%**
Carbon Disulfide	8.00E+06	0	111	7	2.5	**6%**	**0%**
Carbon Tetrachloride	1.43E+04	0	112	0		**0%**	**0%**
Chlorobenzene	1.60E+06	0	111	6	21480	**5%**	**0%**
Chloroethane	--	0	105	0		**0%**	**0%**
Chloroform	7.51E+00	0	112	0		**0%**	**0%**
Chloromethane	--	0	105	1	1.9	**1%**	**0%**
cis-1,2-Dichloroethene	8.00E+01	0	112	0		**0%**	**0%**

Table 5-5
Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	Screening Level	Number of Screening Level Exceedances	Number of Results	Number of Detections	Maximum Detection	Percent Detected	Percent Exceedances
cis-1,3-Dichloropropene	--	0	105	0		0%	0%
Dibromochloromethane	1.19E+04	0	105	0		0%	0%
Dibromomethane	--	0	13	0		0%	0%
Ethylbenzene	6.05E+03	1	132	17	9400	13%	1%
Hexachlorobutadiene	1.28E+04	0	17	0		0%	0%
Iodomethane	--	0	13	0		0%	0%
Isopropylbenzene	8.00E+06	0	18	1	34	6%	0%
Methylene Chloride	2.18E+01	4	132	41	810	31%	3%
Methyl-tert-butyl ether	--	0	5	0		0%	0%
Naphthalene	1.60E+06	0	66	6	87	9%	0%
n-Butylbenzene	4.00E+06	0	18	1	130	6%	0%
n-Propylbenzene	8.00E+06	0	18	1	110	6%	0%
sec-Butylbenzene	8.00E+06	0	18	1	110	6%	0%
Styrene	1.60E+07	0	105	1	12	1%	0%
tert-Butylbenzene	--	0	13	0		0%	0%
Tetrachloroethene	4.76E+05	0	115	12	1000	10%	0%
Toluene	4.65E+03	2	136	34	11650	25%	1%
trans-1,2-Dichloroethene	1.60E+06	0	112	0		0%	0%
trans-1,3-Dichloropropene	--	0	105	0		0%	0%
trans-1,4-Dichloro-2-butene	--	0	13	0		0%	0%
Trichloroethene	3.57E+00	10	119	15	6400	13%	8%
Trichlorofluoromethane	2.40E+07	0	105	0		0%	0%
Vinyl Acetate	8.00E+07	0	105	0		0%	0%
Vinyl Chloride	1.00E+00	0	112	0		0%	0%
Xylenes, Total	1.46E+04	3	250	45	64000	18%	1%
POLYCYCLIC AROMATIC HYDROCARBONS (µg/kg)							
Benzo(a)anthracene	(b)	0	55	3	200	5%	0%
Benzo(a)pyrene	1.37E+02	0	54	3	80	6%	0%
Benzo(b)fluoranthene	(b)	0	54	6	570	11%	0%
Benzo(g,h,i)perylene	--	0	44	1	38	2%	0%
Benzo(k)fluoranthene	(b)	0	55	5	100	9%	0%
Chrysene	(b)	0	55	6	240	11%	0%
Dibenzo(a,h)anthracene	(b)	0	48	0		0%	0%
Fluoranthene	3.20E+06	0	45	3	470	7%	0%
Indeno(1,2,3-cd)pyrene	(b)	0	54	2	25	4%	0%
Phenanthrene	--	0	44	4	180	9%	0%
Pyrene	2.40E+03	0	45	4	280	9%	0%
TOTAL METALS (mg/kg)							
Aluminum	8.00E+04	0	69	69	25100	100%	0%
Antimony	5.42E+00	9	78	10	9	13%	12%
Arsenic	7.00E+00	0	107	32	6	30%	0%
Barium	1.60E+04	0	67	67	2100	100%	0%
Beryllium	1.60E+02	0	85	76	0.31	89%	0%
Cadmium	1.00E+00	16	154	56	642	36%	10%
Calcium	--	0	33	33	22200	100%	0%
Chromium, Hexavalent	1.84E+01	0	47	3	0.49	6%	0%
Chromium, Total	1.20E+05	0	157	157	92	100%	0%

Table 5-5
Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	Screening Level	Number of Screening Level Exceedances	Number of Results	Number of Detections	Maximum Detection	Percent Detected	Percent Exceedances
Cobalt	--	0	33	33	35.2	**100%**	**0%**
Copper	2.84E+02	3	129	129	619	**100%**	**2%**
Iron	5.60E+04	0	33	33	24700	**100%**	**0%**
Lead	2.50E+02	1	156	142	615	**91%**	**1%**
Magnesium	--	0	33	33	5900	**100%**	**0%**
Manganese	1.12E+04	0	69	69	1140	**100%**	**0%**
Mercury	2.09E+00	0	116	7	0.18	**6%**	**0%**
Nickel	1.30E+02	0	129	129	101	**100%**	**0%**
Potassium	--	0	33	33	1150	**100%**	**0%**
Selenium	4.00E+02	0	111	5	8	**5%**	**0%**
Silver	4.00E+02	0	111	10	0.6	**9%**	**0%**
Sodium	--	0	33	33	1510	**100%**	**0%**
Thallium	1.00E+00	3	71	15	11	**21%**	**4%**
Titanium	--	0	36	36	1370	**100%**	**0%**
Vanadium	4.00E+02	0	33	33	61.6	**100%**	**0%**
Zinc	2.40E+04	0	129	129	391	**100%**	**0%**
CYANIDE (mg/kg)							
Cyanide	4.80E+01	8	47	35	350	**74%**	**17%**
SEMI-VOLATILES (µg/kg)							
1,3-Dichlorobenzene	--	0	4	0		**0%**	**0%**
1-Methylnaphthalene	3.45E+04	0	32	0		**0%**	**0%**
2,2'-Oxybis(1-Chloropropane)	1.43E+04	0	2	0		**0%**	**0%**
2,4,5-Trichlorophenol	8.00E+06	0	4	0		**0%**	**0%**
2,4,6-Trichlorophenol	8.00E+04	0	4	0		**0%**	**0%**
2,4-Dichlorophenol	2.40E+05	0	4	0		**0%**	**0%**
2,4-Dimethylphenol	1.60E+06	0	4	0		**0%**	**0%**
2,4-Dinitrophenol	1.60E+05	0	4	0		**0%**	**0%**
2,4-Dinitrotoluene	3.23E+03	0	4	0		**0%**	**0%**
2,6-Dinitrotoluene	6.67E+02	0	4	0		**0%**	**0%**
2-Chloronaphthalene	6.40E+06	0	4	0		**0%**	**0%**
2-Chlorophenol	4.00E+05	0	4	0		**0%**	**0%**
2-Methylnaphthalene	3.20E+05	0	39	2	180	**5%**	**0%**
2-Methylphenol	4.00E+06	0	4	0		**0%**	**0%**
2-Nitroaniline	--	0	4	0		**0%**	**0%**
2-Nitrophenol	--	0	4	0		**0%**	**0%**
3,3'-Dichlorobenzidine	2.22E+03	0	4	0		**0%**	**0%**
3-Nitroaniline	--	0	4	0		**0%**	**0%**
4,6-Dinitro-2-methylphenol	--	0	4	0		**0%**	**0%**
4-Bromophenyl phenyl ether	--	0	4	0		**0%**	**0%**
4-Chloro-3-methylphenol	--	0	4	0		**0%**	**0%**
4-Chloroaniline	5.00E+03	0	4	0		**0%**	**0%**
4-Chlorophenyl phenyl ether	--	0	4	0		**0%**	**0%**
4-Methylphenol	8.00E+06	0	4	0		**0%**	**0%**
4-Nitroaniline	--	0	4	0		**0%**	**0%**
4-Nitrophenol	--	0	4	0		**0%**	**0%**
Acenaphthene	4.80E+06	0	44	1	5.2	**2%**	**0%**
Acenaphthylene	--	0	44	0		**0%**	**0%**

Table 5-5
Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	Screening Level	Number of Screening Level Exceedances	Number of Results	Number of Detections	Maximum Detection	Percent Detected	Percent Exceedances
Anthracene	2.40E+07	0	44	1	15	**2%**	**0%**
Benzoic Acid	3.20E+08	0	4	0		**0%**	**0%**
Benzyl Alcohol	8.00E+06	0	4	0		**0%**	**0%**
bis(2-Chloro-1-Methylethyl) Ether	--	0	2	0		**0%**	**0%**
bis(2-Chloroethoxy) Methane	--	0	4	0		**0%**	**0%**
bis(2-Chloroethyl) Ether	9.09E+02	0	4	0		**0%**	**0%**
bis(2-Ethylhexyl) Phthalate	1.34E+04	0	6	4	89	**67%**	**0%**
Butyl Benzyl Phthalate	5.26E+05	0	4	0		**0%**	**0%**
Carbazole	--	0	4	0		**0%**	**0%**
Dibenzofuran	--	0	12	0		**0%**	**0%**
Diethyl Phthalate	6.40E+07	0	4	2	82	**50%**	**0%**
Dimethyl Phthalate	--	0	4	0		**0%**	**0%**
Di-N-Butyl Phthalate	8.00E+06	0	4	0		**0%**	**0%**
Di-n-octyl Phthalate	8.00E+05	0	4	0		**0%**	**0%**
Fluorene	3.20E+06	0	44	2	9.4	**5%**	**0%**
Hexachlorobenzene	6.25E+02	0	4	0		**0%**	**0%**
Hexachlorocyclopentadiene	4.80E+05	0	4	0		**0%**	**0%**
Hexachloroethane	2.50E+04	0	4	0		**0%**	**0%**
Isophorone	1.05E+06	0	4	0		**0%**	**0%**
Nitrobenzene	1.60E+05	0	4	0		**0%**	**0%**
N-Nitrosodi-n-propylamine	3.30E+01	0	4	0		**0%**	**0%**
N-Nitrosodiphenylamine	2.04E+05	0	4	0		**0%**	**0%**
Pentachlorophenol	2.50E+03	0	4	0		**0%**	**0%**
Phenol	2.40E+04	0	4	0		**0%**	**0%**
PETROLEUM HYDROCARBONS (mg/kg)							
Diesel-Range Organics	2000 (a)	17	154	64	9889	**42%**	**11%**
Gasoline-Range Organics	100 (a,c)	6	54	13	1300	**24%**	**11%**
Oil-Range Organics	2000 (a)	28	129	69	32000	**53%**	**22%**
Petroleum Hydrocarbons as Hydraulic Fluid	--	0	4	4	8800	**100%**	**0%**
Petroleum Hydrocarbons, Blazo-Cut Range	--	0	37	1	14	**3%**	**0%**
Petroleum Hydrocarbons, Unax Oil Range	--	0	37	2	23900	**5%**	**0%**
Petroleum Hydrocarbons, Way Oil Range	--	0	34	5	430	**15%**	**0%**
Total Petroleum Hydrocarbons	--	0	47	33	2000	**70%**	**0%**
VOLATILE PETROLEUM HYDROCARBONS							
Aliphatic Hydrocarbons C5-C6	--	0	5	0		**0%**	**0%**
Aliphatic Hydrocarbons C6-C8	--	0	5	0		**0%**	**0%**
Aliphatic Hydrocarbons C8-C10	--	0	15	0		**0%**	**0%**
Aliphatic Hydrocarbons C10-C12	--	0	24	1	13000	**4%**	**0%**
EXTRACTABLE PETROLEUM HYDROCARBONS							
Aliphatic Hydrocarbons C12-C16	--	0	19	2	18000	**11%**	**0%**
Aliphatic Hydrocarbons C16-C18	--	0	5	1	54000	**20%**	**0%**
Aliphatic Hydrocarbons C16-C21	--	0	14	6	570000	**43%**	**0%**
Aliphatic Hydrocarbons C18-C21	--	0	5	1	280000	**20%**	**0%**
Aliphatic Hydrocarbons C21-C28	--	0	5	2	3400000	**40%**	**0%**
Aliphatic Hydrocarbons C21-C34	--	0	14	8	15000000	**57%**	**0%**
Aliphatic Hydrocarbons C28-C36	--	0	5	1	6200000	**20%**	**0%**
Aliphatic Hydrocarbons, Total	--	0	3	3	10000000	**100%**	**0%**

Table 5-5
Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	Screening Level	Number of Screening Level Exceedances	Number of Results	Number of Detections	Maximum Detection	Percent Detected	Percent Exceedances
Aromatic Hydrocarbons C8-C10	--	0	15	3	9600	**20%**	**0%**
Aromatic Hydrocarbons C10-C12	--	0	24	3	430	**13%**	**0%**
Aromatic Hydrocarbons C12-C13	--	0	5	0		**0%**	**0%**
Aromatic Hydrocarbons C12-C16	--	0	19	4	1700	**21%**	**0%**
Aromatic Hydrocarbons C16-C18	--	0	5	1	20000	**20%**	**0%**
Aromatic Hydrocarbons C16-C21	--	0	14	8	170000	**57%**	**0%**
Aromatic Hydrocarbons C18-C21	--	0	5	1	60000	**20%**	**0%**
Aromatic Hydrocarbons C21-C28	--	0	5	1	430000	**20%**	**0%**
Aromatic Hydrocarbons C21-C34	--	0	14	6	1900000	**43%**	**0%**
Aromatic Hydrocarbons C28-C36	--	0	5	1	290000	**20%**	**0%**
Aromatic Hydrocarbons, Total	--	0	2	2	810000	**100%**	**0%**
POLYCHLORINATED BIPHENYLS/ PESTICIDES (µg/kg)							
DDD	4.17E+03	0	1	1	2.8	**100%**	**0%**
DDT	2.94E+03	0	4	4	8.6	**100%**	**0%**
Aroclor 1016	5.60E+03	0	58	0		**0%**	**0%**
Aroclor 1221	(d)	0	47	0		**0%**	**0%**
Aroclor 1232	(d)	0	47	0		**0%**	**0%**
Aroclor 1242	(d)	0	58	4	300	**7%**	**0%**
Aroclor 1248	(d)	0	61	6	429	**10%**	**0%**
Aroclor 1254	5.00E+02	0	60	7	180	**12%**	**0%**
Aroclor 1260	5.00E+02	0	60	10	100	**17%**	**0%**
Total Polychlorinated Biphenyls	5.00E+02	0	4	1	100	**25%**	**0%**

-- = no screening criteria available
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram

Note:

1. Orange shading: indicator hazardous substances are constituents that have exceedances in more than 5 percent of samples.

a. MTCA Method A soil cleanup levels for unrestricted land uses are used for lead, mercury, and petroleum hydrocarbons.
b. Evaluated using benzo(a)pyrene toxic equivalent concentration [benzo(a)pyrene toxicity equivalency quotient].
c. For gasoline mixtures without benzene and the total of ethyl benzene, toluene and xylene are less than 1% of the gasoline mixture.
d. Evaluated using screening level for total polychlorinated biphenyls.

Table 5-6
Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	Number of Screening Level Exceedances	Number of Results	Number of Detections	Maximum Detection	Percent Detected	Percent Exceedances
VOLATILES (µg/L)							
1,1,1-Trichloroethane	2.00E+02	1	2863	35	250	**1%**	**0.03%**
1,1,2,2-Tetrachloroethane	2.19E-01	12	2860	24	0.5	**1%**	**0.42%**
1,1,2-Trichloroethane	7.68E-01	0	666	1	0.3	**0.2%**	**0.0%**
1,1-Dichloroethane	7.68E+00	5	2862	131	16	**5%**	**0.17%**
1,1-Dichloroethene	7.00E+00	1	2860	228	8	**8%**	**0.03%**
1,2-Dichloroethane	4.81E-01	2	2861	52	1.6	**2%**	**0.07%**
1,4-Dichlorobenzene	8.10E+00	0	71	2	0.13	**3%**	**0.0%**
4-Methyl-2-pentanone	6.40E+02	0	666	2	79	**0.3%**	**0.0%**
Acetone	7.20E+03	0	2870	176	530	**6%**	**0.0%**
Benzene	7.95E-01	13	2878	55	1700	**2%**	**0.45%**
Bromodichloromethane	7.06E-01	0	2860	3	0.7	**0.1%**	**0.00%**
Bromoform	5.54E+00	0	666	1	0.3	**0.2%**	**0.0%**
Carbon Disulfide	8.00E+02	0	2860	27	4.2	**1%**	**0.0%**
Chloroform	1.41E+00	16	2860	45	12	**2%**	**0.56%**
cis-1,2-Dichloroethene	1.60E+01	7	2861	1522	75	**53%**	**0.24%**
Dibromochloromethane	5.21E-01	0	666	1	0.2	**0%**	**0.0%**
Ethylbenzene	7.00E+02	5	2876	16	1200	**1%**	**0.17%**
Methyl Ethyl Ketone	4.80E+03	0	2865	56	750	**2%**	**0.0%**
Methylene Chloride	5.00E+00	4	2864	22	19	**1%**	**0.14%**
Naphthalene	1.60E+02	0	113	2	0.24	**2%**	**0.0%**
Styrene	1.00E+02	0	666	3	34	**0%**	**0.0%**
Tetrachloroethene	5.00E+00	0	2860	706	1.6	**25%**	**0.0%**
Toluene	6.40E+02	1	2879	139	3000	**5%**	**0.03%**
trans-1,2-Dichloroethene	1.00E+02	0	2860	416	2.4	**15%**	**0.0%**
Trichloroethene	5.40E-01	1314	2861	1570	230	**55%**	**46%**
Trichlorofluoromethane	2.40E+03	0	2860	9	2.1	**0%**	**0.0%**
Vinyl Acetate	8.00E+03	0	667	1	30	**0%**	**0.0%**
Vinyl Chloride	2.90E-02	1136	2860	1312	11	**46%**	**40%**
Xylenes, Total (a)	1.60E+03	4	5763	57	12000	**1%**	**0.1%**
DISSOLVED METALS (mg/L)							
Aluminum	1.60E+01	0	56	8	0.26	**14%**	**0.0%**
Antimony	6.00E-03	1	76	3	0.0167	**4%**	**1.3%**
Arsenic	8.00E-03	2	102	36	0.014	**35%**	**2.0%**
Barium	2.00E+00	0	63	51	0.0575	**81%**	**0.0%**
Cadmium	5.00E-03	10	114	20	0.0755	**18%**	**8.8%**
Chromium, Hexavalent	4.80E-02	0	61	11	0.034	**18%**	**0.0%**
Chromium, Total	1.00E-01	0	99	3	0.01	**3%**	**0.0%**
Copper	6.40E-01	1	78	18	1.47	**23%**	**1.3%**
Lead	1.50E-02	0	99	2	0.006	**2%**	**0.0%**
Manganese	2.24E+00	1	60	48	4.22	**80%**	**1.7%**
Mercury	2.00E-04	0	97	1	0.0002	**1%**	**0.0%**
Nickel	1.00E-01	2	98	22	0.207	**22%**	**2.0%**

Table 5-6
Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	Number of Screening Level Exceedances	Number of Results	Number of Detections	Maximum Detection	Percent Detected	Percent Exceedances
Silver	8.00E-02	0	78	1	0.006	**1%**	**0.0%**
Thallium	1.60E-04	1	74	1	0.001	**1%**	**1.4%**
Vanadium	8.00E-02	0	57	19	0.043	**33%**	**0.0%**
Zinc	4.80E+00	0	83	13	1.07	**16%**	**0.0%**
CYANIDE (mg/L)							
Cyanide	9.60E-03	0	30	9	0.6	**30%**	**0.0%**
SEMI-VOLATILES (µg/L)							
1-Methylnaphthalene	1.51E+00	1	31	2	4.8	**6%**	**3.2%**
2-Methylnaphthalene	3.20E+01	0	82	2	0.82	**2%**	**0.0%**
4-Methylphenol	8.00E+02	0	51	1	1	**2%**	**0.0%**
Acenaphthene	9.60E+02	0	82	1	1.3	**1%**	**0.0%**
bis(2-Ethylhexyl) Phthalate	6.00E+00	1	53	14	48	**26%**	**1.9%**
Diethyl Phthalate	1.28E+04	0	51	1	1.6	**2%**	**0.0%**
Di-N-Butyl Phthalate	1.60E+03	0	53	2	0.5	**4%**	**0.0%**
Di-n-octyl Phthalate	1.60E+02	0	52	1	2	**2%**	**0.0%**
Fluorene	6.40E+02	0	82	1	1.8	**1%**	**0.0%**
Pentachlorophenol	2.19E-01	2	52	2	180	**4%**	**3.8%**
Phenol	2.40E+03	0	51	2	5.8	**4%**	**0.0%**
Pyrene	4.80E+02	0	83	1	12	**1%**	**0.0%**
PETROLEUM HYDROCARBONS (mg/L)							
Diesel-Range Organics	0.5 (b)	40	230	53	5.4	**23%**	**17%**
Gasoline-Range Organics	0.8 (b) (c)	10	41	12	34	**29%**	**24%**
Oil-Range Organics	0.5 (b)	25	177	28	16	**16%**	**14%**

µg/L = micrograms per liter
mg/L = milligrams per liter

Notes:

1. For monitoring wells that have ongoing monitoring, the complete data set for the last 3 years was evaluated. For wells that are no longer sampled or for sampling locations only sampled once (borings and grab samples), the most recent data for each analyte sampled at that location was evaluated.
2. Orange shading : indicator hazardous substances are constituents that have exceedances in more than 5 percent of samples.

a. Total xylenes include m, p, and o isomers, which were analyzed separately.
b. Model Toxics Control Act Method A groundwater cleanup levels are used for petroleum hydrocarbons.
c. For gasoline mixtures, if benzene is present. If benzene is not present, screening level is 1,000 µg/L (1.0 mg/L).

Table 5-7
Surface Water Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Surface Water SL (µg/L)	Number of Results	Number of Detections	Maximum Detection (µg/L)	Percent Detections	Maximum Detection Exceeds SL?
VOLATILES (µg/L)						
Acetone (a)	7200	86	19	18	22%	No
Carbon Disulfide (a)	--	86	1	1.2	1%	No
Chloroform (a)	55	86	1	0.4	1%	No
cis-1,2-Dichloroethene	16	98	34	1.5	35%	No
Toluene (a)	57	86	37	19	43%	No
Tetrachloroethene (a)	10	86	9	0.15	10%	No
Trichloroethene - Area A	0.6	9	0	NA	0%	No
Trichloroethene - Area B	7.0	15	0	NA	0%	No
Trichloroethene - Area C	58	21	8	1.1	38%	No
Trichloroethene - Area D	58	53	21	1.7	40%	No
Vinyl Chloride - Area A	0.022	9	0	NA	0%	No
Vinyl Chloride - Area B	1.6	15	2	0.063	13%	No
Vinyl Chloride - Area C	98	21	10	0.32	48%	No
Vinyl Chloride - Area D	15	53	30	0.54	57%	No

-- = No criteria available; no screening level established.
µg/L = micrograms per liter
SL = screening level
NA = not applicable

a. Constituent is not attributed to the plumes because it is understood to be naturally occurring or attributed to other anthropogenic sources and is not found in groundwater either near or upgradient of the surface water bodies.

Table 5-8
Air Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

	Screening Level ($\mu g/m^3$)	Number of Screening Level Exceedances	Number of Results	Number of Detections	Maximum Detection ($\mu g/m^3$)	Percent Detected	Percent Exceedances (overall/VI related)
COMMERCIAL							
Ambient Air							
cis-1,2-Dichloroethene	--	NA	7	0	NA	0%	NA
Tetrachloroethene	2.88E+01	0	4	0	NA	0%	0%
Trichloroethene	1.88E+00	0	9	0	NA	0%	0%
Vinyl Chloride	8.52E-01	0	10	0	NA	0%	0%
Indoor Air							
cis-1,2-Dichloroethene	--	NA	15	0	NA	0%	NA
Tetrachloroethene	2.88E+01	1(a)	5	2	918	40%	20%/0%
Trichloroethene	1.88E+00	0(b)	21	3	11(b)	14%	0%
Vinyl Chloride	8.52E-01	0	23	4	0.38	17%	0%
Soil Vapor (Sub-slab and Borings)							
cis-1,2-Dichloroethene	--	NA	39	3	30	8%	NA
Tetrachloroethene	9.60E+02	0	10	0	NA	0%	0%
Trichloroethene	6.25E+01	0	42	5	14	12%	0%
Vinyl Chloride	2.84E+01	1	42	2	30	5%	3%
INDUSTRIAL							
Ambient Air							
cis-1,2-Dichloroethene	--	NA	2	0	NA	0%	NA
Tetrachloroethene	4.00E+01	0	2	0	NA	0%	0%
Trichloroethene	2.00E+00	0	2	0	NA	0%	0%
Vinyl Chloride	2.84E+00	0	2	0	NA	0%	0%
Indoor Air							
cis-1,2-Dichloroethene	--	NA	7	0	NA	0%	NA
Tetrachloroethene	4.00E+01	0	7	0	NA	0%	0%
Trichloroethene	2.00E+00	0	7	0	NA	0%	0%
Vinyl Chloride	2.84E+00	0	7	0	NA	0%	0%
Sub-Slab Soil Vapor							
1,1,1-Trichloroethane	--	NA	39	23	216	59%	NA
1,1,2,2-Tetrachloroethane	--	NA	27	2	5	7%	NA
1,1,2-Trichloroethane	--	NA	12	0	NA	0%	NA
1,1-Dichloroethane	--	NA	39	12	185	31%	NA
1,1-Dichloroethene	--	NA	39	4	47	10%	NA
cis-1,2-Dichloroethene	--	NA	39	9	310	23%	NA
Tetrachloroethene	1.30E+03	0	39	20	220	51%	0%
trans-1,2-Dichloroethene	--	NA	39	27	180	69%	NA
Trichloroethene	6.67E+01	5	39	19	1010	49%	13%/0%
Vinyl Chloride	9.47E+01	2	39	3	350	8%	5%/0%
RESIDENTIAL							
Ambient Air							
cis-1,2-Dichloroethene	--	NA	24	0	NA	0%	NA
trans-1,2-Dichloroethene	2.74E+01	0	24	0	NA	0%	0%
Trichloroethene	3.68E-01	1(a)	27	1	1.1	4%	4%/0%
Vinyl Chloride	2.84E-01	0	27	0	NA	0%	0%

Table 5-8
Air Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

	Screening Level ($\mu g/m^3$)	Number of Screening Level Exceedances	Number of Results	Number of Detections	Maximum Detection ($\mu g/m^3$)	Percent Detected	Percent Exceedances (overall/VI related)
Indoor Air							
cis-1,2-Dichloroethene	--	NA	68	0	NA	0%	NA
trans-1,2-Dichloroethene	2.74E+01	0	68	0	NA	0%	0%
Trichloroethene	3.68E-01	3(a)	74	7	1.2	9%	4%/0%
Vinyl Chloride	2.84E-01	0	71	0	NA	0%	0%
Sub-Slab Soil Vapor							
cis-1,2-Dichloroethene	--	NA	18	0	NA	0%	NA
trans-1,2-Dichloroethene	9.07E+02	0	18	0	NA	0%	0%
Trichloroethene	1.23E+01	0	18	1	0.43	6%	0%
Vinyl Chloride	9.47E+00	0	18	0	NA	0%	0%

-- = No criteria available; no screening level established.

$\mu g/m^3$ = micrograms per cubic meter

NA = not applicable

Note:

Data set includes all Site-wide air data collected 2011 and later.

a. Detections were determined to be the result of a background souce and are not attributed to vapor intrusion.

b. One detection exceeded the screening level for continuously occupied work areas but was collected in an infrequently occupied area. The concentration was determined to be less than a modified health risk-based screening level calculated for a typical exposure scenario in an infrequently occupied area.

Table 5-9
Indicator Hazardous Substances
Boeing Auburn Remedial Investigation
Auburn, Washington

Media	Indicator Hazardous Substance	Carcinogen/ Non-Carcinogen
Soil	Trichloroethene	Carcinogen and Non-Carcinogen
	Antimony	Non-Carcinogen
	Cadmium	Non-Carcinogen
	Cyanide	Non-Carcinogen
	Thallium	Non-Carcinogen
	Diesel-Range Organics	(a)
	Oil-Range Organics	(a)
	Gasoline-Range Organics	(a)
Groundwater	Trichloroethene	Carcinogen and Non-Carcinogen
	Vinyl Chloride	Carcinogen and Non-Carcinogen
	Cadmium	Non-Carcinogen
	Diesel-Range Organics	(a)
	Oil-Range Organics	(a)
	Gasoline-Range Organics	(a)

a. Model Toxics Control Act Method A cleanup level is used because insufficient toxicity data is available for evaluation of either carcinogenic or non-carcinogenic effects of petroleum hydrocarbons.

Table 6-0
Footnotes for Section 6.0 Tables
Boeing Auburn Remedial Investigation
Auburn, Washington

-- = not analyzed or not applicable
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
M = Indicates an estimated value of analyte found and confirmed by analyst but with low spectral match.
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NA = Screening level not available
ND = The analyte was analyzed for, but was not detected.
TEQ = toxicity equivalency quotient
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
MEK = methyl ethyl ketone, also 2-butanone
PCBs = polychorinated biphenyls

Notes:

1. Groundwater monitoring wells are identified by the AGW prefix. Soil borings are identified by the ASB prefix.
2. Borehole grab samples designations include the locations name (e.g., ASB0207 or AGW024) followed by the depth (feet, below ground surface) at which the sample was collected (e.g., 7). Borehole grab samples were one time samples collected at time of drilling.
3. Monitoring well results presented are maximum concentration detected and most recent concentration detected (as of December 2015).
4. **Bold** text indicates detected analyte.
5. Green shading indicates exceedance of screening level.

a. Evaluated using total toxic equivalent concentration of benzo(a)pyrene.
b. Model Toxics Control Act Method A soil cleanup levels for unrestricted land uses are used for lead and petroleum hydrocarbons
c. For gasoline mixtures without benzene and the total of ethylbenzene, toluene, and xylene is less than 1 percent of the gasoline mixture. For samples with benzene or the total of ethylbenzene, toluene, and xylene is greater than 1 percent of the gasoline it is 30 mg/kg.
d. Unax and Way Oil fall in the diesel and oil hydrocarbon range; thus, the Model Toxics Control Act Method A cleanup level of 2,000 mg/kg for diesel-range organics and oil-range organics is used.

Table 6-1
SWMU S-06 Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/kg)						
2-Butanone/MEK	4.80E+07	0	16	8	24	7.2
Acetone	7.20E+07	0	16	10	100	6.5
m-&p-Xylenes	1.46E+04	0	16	2	2.7	1.4
SEMI-VOLATILES (µg/kg)						
Benzo(a)anthracene	(a)	NA	4	1	110	110
Benzo(a)pyrene	1.37E+02	0	4	1	80	80
Benzo(b)fluoranthene	(a)	NA	4	1	83	83
Benzo(k)fluoranthene	(a)	NA	4	1	83	83
Chrysene	(a)	NA	4	1	240	240
Fluoranthene	3.20E+06	0	4	1	470	470
Phenanthrene	NA	NA	4	1	180	180
Pyrene	2.40E+03	0	4	1	280	280
TOTAL METALS (mg/kg)						
Aluminum	8.00E+04	0	12	12	25100	7890
Antimony	5.42E+00	5	13	5	9	6
Arsenic	7.00E+00	0	12	12	6	0.6
Barium	1.60E+04	0	12	12	91.9	21.1
Beryllium	1.60E+02	0	12	11	0.3	0.1
Cadmium	1.00E+00	0	12	1	0.2	0.2
Calcium	NA	NA	12	12	7310	4350
Chromium, Total	1.20E+05	0	12	12	22.1	9.6
Cobalt	NA	NA	12	12	10.6	3.3
Copper	2.84E+02	0	12	12	31.7	9.3
Iron	5.60E+04	0	12	12	24700	9450
Lead	250 (b)	0	12	12	9.3	1.5
Magnesium	NA	NA	12	12	5540	1500
Manganese	1.12E+04	0	12	12	384	87.5
Mercury	2.09E+00	0	12	1	0.06	0.06
Nickel	1.30E+02	0	12	12	20	6
Potassium	NA	NA	12	12	1100	370
Sodium	NA	NA	12	12	1510	713
Thallium	1.00E+00	0	12	12	0.3	0.1
Vanadium	4.00E+02	0	12	12	61.6	40.9
Zinc	2.40E+04	0	12	12	80.4	19.7
PETROLEUM HYDROCARBONS (mg/kg)						
Diesel-Range Organics	2,000 (b)	0	16	2	200	42
Oil-Range Organics	2,000 (b)	0	10	2	1600	21
EXTRACTABLE PETROLEUM HYDROCARBONS (mg/kg)						
Aliphatic Hydrocarbons C21-C34	NA	NA	1	1	5500	5500

Table 6-2
SWMU S-06 Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	ASB0084-4 4/2/1999	ASB0084-12 4/2/1999	ASB0085-4 4/2/1999	ASB0085-11 4/2/1999	ASB0086-1 4/2/1999	ASB0086-4 4/2/1999
VOLATILES (µg/kg)							
2-Butanone/MEK	4.80E+07	6 U	6.4 U	**13**	**16**	5.7 U	6 U
Acetone	7.20E+07	6 U	**24**	**83**	**70**	5.7 U	6 U
m-&p-Xylenes	1.46E+04	1.2 U	1.3 U	1.2 U	1.3 U	**2.7**	1.2 U
SEMI-VOLATILES (µg/kg)							
Benzo(a)anthracene	(a)	--	--	--	--	--	--
Benzo(a)pyrene	1.37E+02	--	--	--	--	--	--
Benzo(b)fluoranthene	(a)	--	--	--	--	--	--
Benzo(k)fluoranthene	(a)	--	--	--	--	--	--
Chrysene	(a)	--	--	--	--	--	--
Fluoranthene	3.20E+06	--	--	--	--	--	--
Phenanthrene	NA	--	--	--	--	--	--
Pyrene	2.40E+03	--	--	--	--	--	--
TEQ	1.37E+02	--	--	--	--	--	--
TOTAL METALS (mg/kg)							
Aluminum	8.00E+04	**19200**	**7890**	**18100**	**16000**	**13700**	**19100**
Antimony	5.42E+00	6 U	6 U	6 U	6 U	**6**	**9**
Arsenic	7.00E+00	**4.5**	**0.6**	**3.4**	**1.6**	**2.2**	**3.2**
Barium	1.60E+04	**70.4**	**21.1**	**64.2**	**53.4**	**50.7**	**67.2**
Beryllium	1.60E+02	**0.3**	0.1 U	**0.3**	**0.2**	**0.1**	**0.2**
Cadmium	1.00E+00	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	NA	**6260**	**4350**	**5750**	**6750**	**5180**	**6170**
Chromium, Total	1.20E+05	**18.5**	**9.6**	**17.2**	**16.5**	**16.7**	**17.8**
Cobalt	NA	**7.5**	**3.3**	**7.1**	**6.1**	**6.1**	**7.7**
Copper	2.84E+02	**25.7**	**9.3**	**25.4**	**27.1**	**18.7**	**27.7**
Iron	5.60E+04	**19200**	**9450**	**16400**	**12400**	**16800**	**19800**
Lead	2.50E+02	**3.8**	**1.5**	**3.2**	**2.8**	**5.6**	**4.1**
Magnesium	NA	**3590**	**1500**	**3370**	**3110**	**3550**	**3590**
Manganese	1.12E+04	**288**	**87.7**	**209**	**123**	**222**	**226**
Mercury	2.09E+00	0.05 U	0.06 U	**0.06**	0.06 U	0.04 U	0.06 U
Nickel	1.30E+02	**15**	**6**	**13**	**13**	**14**	**13**
Potassium	NA	**850**	**370**	**830**	**730**	**700**	**820**
Sodium	NA	**1240**	**861**	**1090**	**1360**	**713**	**1100**
Thallium	1.00E+00	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.2**
Vanadium	4.00E+02	**54.5**	**40.9**	**52.4**	**49.1**	**48.2**	**54.9**
Zinc	2.40E+04	**35**	**19.7**	**31.5**	**30.3**	**33.6**	**33.8**
PETROLEUM HYDROCARBONS (mg/kg)							
Diesel-Range Organics	2,000 (b)	6.1 U	6.1 U	6.4 U	6.6 U	25 U	25 U
Oil-Range Organics	2,000 (b)	12 U	12 U	13 U	13 U	**66**	50 U
EXTRACTABLE PETROLEUM HYDROCARBONS (µg/kg)							
Aliphatic Hydrocarbons C21-C34	NA	--	--	--	--	--	--

Table 6-2
SWMU S-06 Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	ASB0087-1 4/2/1999	ASB0087-4 4/2/1999	ASB0088-4 4/2/1999	ASB0088-12 4/2/1999	ASB0089-1 4/2/1999	ASB0089-4 4/2/1999
VOLATILES (µg/kg)							
2-Butanone/MEK	4.80E+07	5.6 U	6 U	**9.1**	**14**	5.3 U	6.3 U
Acetone	7.20E+07	5.6 U	**6.5**	**49**	**68**	5.3 U	6.3 U
m-&p-Xylenes	1.46E+04	1.1 U	1.2 U	1.2 U	1.2 U	**1.4**	1.3 U
SEMI-VOLATILES (µg/kg)							
Benzo(a)anthracene	(a)	--	--	--	--	--	--
Benzo(a)pyrene	1.37E+02	--	--	--	--	--	--
Benzo(b)fluoranthene	(a)	--	--	--	--	--	--
Benzo(k)fluoranthene	(a)	--	--	--	--	--	--
Chrysene	(a)	--	--	--	--	--	--
Fluoranthene	3.20E+06	--	--	--	--	--	--
Phenanthrene	NA	--	--	--	--	--	--
Pyrene	2.40E+03	--	--	--	--	--	--
TEQ	1.37E+02	--	--	--	--	--	--
TOTAL METALS (mg/kg)							
Aluminum	8.00E+04	**15800**	**17500**	**25100**	**10600**	**17100**	**18600**
Antimony	5.42E+00	**6**	6 U	6 U	6 U	**8**	**6**
Arsenic	7.00E+00	**2.5**	**2.7**	**6**	**4.5**	**3.2**	**2.6**
Barium	1.60E+04	**54.6**	**60.3**	**91.9**	**31.8**	**58.8**	**61.3**
Beryllium	1.60E+02	**0.2**	**0.2**	**0.3**	**0.1**	**0.3**	**0.2**
Cadmium	1.00E+00	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U
Calcium	NA	**5970**	**5980**	**7310**	**4560**	**6890**	**5690**
Chromium, Total	1.20E+05	**19.9**	**17.2**	**22.1**	**14**	**20.6**	**19.5**
Cobalt	NA	**6.8**	**7**	**10.6**	**5.8**	**7.8**	**7.2**
Copper	2.84E+02	**21.2**	**23**	**31.7**	**12**	**22.8**	**24.1**
Iron	5.60E+04	**18800**	**18500**	**24700**	**11200**	**20400**	**19300**
Lead	2.50E+02	**7.3**	**3.7**	**4.1**	**2**	**9.3**	**3.5**
Magnesium	NA	**4230**	**3280**	**4590**	**1970**	**5540**	**3460**
Manganese	1.12E+04	**244**	**263**	**384**	**87.5**	**345**	**190**
Mercury	2.09E+00	0.05 U	0.05 U	0.06 U	0.06 U	0.04 U	0.05 U
Nickel	1.30E+02	**17**	**12**	**19**	**11**	**20**	**14**
Potassium	NA	**830**	**860**	**1100**	**400**	**960**	**780**
Sodium	NA	**792**	**1110**	**1510**	**887**	**788**	**1030**
Thallium	1.00E+00	**0.2**	**0.2**	**0.3**	**0.1**	**0.2**	**0.2**
Vanadium	4.00E+02	**48.8**	**54.8**	**61.6**	**48.7**	**52.2**	**54.4**
Zinc	2.40E+04	**80.4**	**32.6**	**41.1**	**23.1**	**39.5**	**33.3**
PETROLEUM HYDROCARBONS (mg/kg)							
Diesel-Range Organics	2,000 (b)	25 U	25 U	6.3 U	6.4 U	**42**	25 U
Oil-Range Organics	2,000 (b)	**74**	50 U	13 U	13 U	50 U	50 U
EXTRACTABLE PETROLEUM HYDROCARBONS (µg/kg)							
Aliphatic Hydrocarbons C21-C34	NA	--	--	--	--	--	--

Table 6-2
SWMU S-06 Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	ASB0141-6 5/4/2004	ASB0141-9 5/4/2004	ASB0142-12 5/4/2004	ASB0142-15 5/4/2004	ASB0180-4 9/30/2009
VOLATILES (µg/kg)						
2-Butanone/MEK	4.80E+07	**7.2** J	**24** J	**16** J	**7.8** J	--
Acetone	7.20E+07	**16** J	**89** J	**100** J	**47** J	--
m-&p-Xylenes	1.46E+04	1.2 UJ	1.3 UJ	1.3 UJ	1.3 UJ	--
SEMI-VOLATILES (µg/kg)						
Benzo(a)anthracene	(a)	**110**	9.1 U	8.6 U	8.2 U	--
Benzo(a)pyrene	1.37E+02	**80**	9.1 U	8.6 U	8.2 U	--
Benzo(b)fluoranthene	(a)	**83**	9.1 U	8.6 U	8.2 U	--
Benzo(k)fluoranthene	(a)	**83**	9.1 U	8.6 U	8.2 U	--
Chrysene	(a)	**240**	9.1 U	8.6 U	8.2 U	--
Fluoranthene	3.20E+06	**470**	9.1 U	8.6 U	8.2 U	--
Phenanthrene	NA	**180**	9.1 U	8.6 U	8.2 U	--
Pyrene	2.40E+03	**280**	9.1 U	8.6 U	8.2 U	--
TEQ	1.37E+02	**110**	ND	ND	ND	--
TOTAL METALS (mg/kg)						
Aluminum	8.00E+04	--	--	--	--	--
Antimony	5.42E+00	--	--	--	--	6 U
Arsenic	7.00E+00	--	--	--	--	--
Barium	1.60E+04	--	--	--	--	--
Beryllium	1.60E+02	--	--	--	--	--
Cadmium	1.00E+00	--	--	--	--	--
Calcium	NA	--	--	--	--	--
Chromium, Total	1.20E+05	--	--	--	--	--
Cobalt	NA	--	--	--	--	--
Copper	2.84E+02	--	--	--	--	--
Iron	5.60E+04	--	--	--	--	--
Lead	2.50E+02	--	--	--	--	--
Magnesium	NA	--	--	--	--	--
Manganese	1.12E+04	--	--	--	--	--
Mercury	2.09E+00	--	--	--	--	--
Nickel	1.30E+02	--	--	--	--	--
Potassium	NA	--	--	--	--	--
Sodium	NA	--	--	--	--	--
Thallium	1.00E+00	--	--	--	--	--
Vanadium	4.00E+02	--	--	--	--	--
Zinc	2.40E+04	--	--	--	--	--
PETROLEUM HYDROCARBONS (mg/kg)						
Diesel-Range Organics	2,000 (b)	**200** J	5 U	5 U	5 U	--
Oil-Range Organics	2,000 (b)	**1600** J	**21**	10 U	10 U	--
EXTRACTABLE PETROLEUM HYDROCARBONS (µg/kg)						
Aliphatic Hydrocarbons C21-C34	NA	--	**5500**	--	--	--

Table 6-3
SWMU S-06 Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
1,1-Dichloroethane	7.68E+00	0	252	64	5.29	0.2
1,1-Dichloroethene	7.00E+00	0	246	5	0.059	0.027
1,2-Dichloroethane	4.81E-01	0	246	5	0.2	0.2
4-Methyl-2-pentanone	6.40E+02	0	246	2	10	6.1
Acetone	7.20E+03	0	246	23	9.3	1
Carbon Disulfide	8.00E+02	0	246	2	0.4	0.2
Chloroform	1.41E+00	1	246	1	1.6	1.6
Chloromethane	NA	NA	246	2	0.2	0.2
cis-1,2-Dichloroethene	1.60E+01	0	250	130	10.71	0.2
2-Butanone/MEK	4.80E+03	0	246	9	14	1
Methylene Chloride	5.00E+00	0	246	2	0.8	0.4
Tetrachloroethene	5.00E+00	0	246	1	0.029	0.029
Toluene	6.40E+02	0	246	3	0.4	0.2
trans-1,2-Dichloroethene	1.00E+02	0	246	37	1.1	0.2
Trichloroethene	5.40E-01	43	246	52	2.6	0.2
Vinyl Chloride	2.90E-02	156	254	159	20.16	0.02
DISSOLVED METALS (mg/L)						
Aluminum	1.60E+01	0	43	25	0.46	0.02
Arsenic	8.00E-03	10	58	29	0.072	0.001
Barium	2.00E+00	0	48	48	0.042	0.006
Calcium	NA	NA	41	41	95.7	3.28
Chromium, Hexavalent	4.80E-02	0	34	7	0.034	0.01
Chromium, Total	1.00E-01	0	59	9	0.014	0.006
Cobalt	NA	NA	42	6	0.016	0.003
Copper	6.40E-01	0	52	14	0.009	0.002
Lead	1.50E-02	0	59	4	0.002	0.001
Magnesium	NA	NA	41	41	24.9	0.8
Manganese	2.24E+00	6	49	49	5.52	0.042
Mercury	2.00E-03	0	58	1	0.0001	0.0001
Nickel	1.00E-01	0	53	1	0.01	0.01
Potassium	NA	NA	42	42	12.3	2.5
Silicon	NA	NA	1	1	22.6	22.6
Sodium	NA	NA	42	42	175	8.6
Thallium	1.60E-04	3	52	3	0.001	0.001
Vanadium	8.00E-02	2	48	41	0.136	0.004
Zinc	4.80E+00	0	53	8	0.013	0.005
SEMI-VOLATILES (µg/L)						
4-Methylphenol	8.00E+02	0	44	1	3.2	3.2
bis(2-Ethylhexyl) Phthalate	6.00E+00	2	44	8	48	1.3
Butyl Benzyl Phthalate	4.61E+01	0	44	1	2.3	2.3
Di-n-octyl Phthalate	1.60E+02	0	44	1	1.1	1.1
PETROLEUM HYDROCARBONS (mg/L)						
Diesel-Range Organics	5.00E-01	1	49	4	1.4	0.28

Table 6-4
SWMU S-06 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW024				AGW025				AGW029				AGW030				AGW032				AGW034			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)																									
1,1-Dichloroethane	7.68E+00	**4.5**	2/9/1994	0.5 U	12/8/2015	**5.29**	2/9/1994	0.5 U	12/3/2015	ND	--	0.5 U	6/4/2015	ND	--	0.5 U	6/4/2015	**2.1**	10/2/1996	0.5 U	12/3/2015	ND	--	0.5 U	6/4/2015
1,1-Dichloroethene	7.00E+00	**0.044**	12/10/2008	0.2 U	12/8/2015	**0.063**	12/4/2008	0.2 U	12/3/2015	ND	--	0.2 U	6/4/2015	ND	--	0.2 U	6/4/2015	**0.027**	12/10/2007	0.2 U	12/3/2015	**0.03**	12/5/2005	0.2 U	6/4/2015
1,2-Dichloroethane	4.81E-01	ND	--	0.2 U	12/8/2015	**0.2**	6/8/2004	0.2 U	12/3/2015	ND	--	0.2 U	6/4/2015	ND	--	0.2 U	6/4/2015	ND	--	0.2 U	12/3/2015	ND	--	0.2 U	6/4/2015
2-Butanone/MEK	4.80E+03	ND	--	5.0 U	12/8/2015	**1.2 J**	2/16/1999	5.0 U	12/3/2015	**1.3**	2/18/1999	5.0 U	6/4/2015	**1.1**	2/18/1999	5.0 U	6/4/2015	**14**	12/10/2014	**12**	12/3/2015	ND	--	5.0 U	6/4/2015
4-Methyl-2-pentanone	6.40E+02	ND	--	5.0 U	12/8/2015	ND	--	5.0 U	12/3/2015	ND	--	5.0 U	6/4/2015	ND	--	5.0 U	6/4/2015	ND	--	5.0 U	12/3/2015	ND	--	5.0 U	6/4/2015
Acetone	7.20E+03	ND	--	5.0 U	12/8/2015	**1.2**	6/6/2006	5.0 U	12/3/2015	**3.4 J**	11/25/2002	5.0 U	6/4/2015	**3.5**	11/25/2002	5.0 U	6/4/2015	**3.2**	5/21/2003	5.0 U	12/3/2015	**3.2**	6/8/2004	5.0 U	6/4/2015
Carbon Disulfide	8.00E+02	ND	--	0.5 U	12/8/2015	**0.4**	12/4/2008	0.5 U	12/3/2015	ND	--	0.5 U	6/4/2015	ND	--	0.5 U	6/4/2015	ND	--	0.5 U	12/3/2015	ND	--	0.5 U	6/4/2015
Chloroform	1.41E+00	ND	--	0.2 U	12/8/2015	ND	--	0.2 U	12/3/2015	ND	--	0.2 U	6/4/2015	ND	--	0.2 U	6/4/2015	ND	--	0.2 U	12/3/2015	ND	--	0.2 U	6/4/2015
Chloromethane	NA	ND	--	0.5 U	12/8/2015	**0.2**	6/3/2008	0.5 U	12/3/2015	**0.2**	9/10/1997	0.5 U	6/4/2015	**0.2**	9/10/1997	0.5 U	6/4/2015	ND	--	0.5 U	12/3/2015	ND	--	0.5 U	6/4/2015
cis-1,2-Dichloroethene	1.60E+01	**1.8**	9/9/1997	**0.3**	12/8/2015	**10.71**	2/9/1994	**3.6**	12/3/2015	ND	--	0.2 U	6/4/2015	ND	--	0.2 U	6/4/2015	**3.3**	9/9/1997	0.2 U	12/3/2015	**0.9**	3/19/1998	0.2 U	6/4/2015
Methylene Chloride	5.00E+00	ND	--	0.5 U	12/8/2015	ND	--	0.5 U	12/3/2015	**0.8 J**	12/5/2005	0.5 U	6/4/2015	ND	--	0.5 U	6/4/2015	ND	--	0.5 U	12/3/2015	ND	--	0.5 U	6/4/2015
Tetrachloroethene	5.00E+00	ND	--	0.2 U	12/8/2015	ND	--	0.2 U	12/3/2015	ND	--	0.2 U	6/4/2015	ND	--	0.2 U	6/4/2015	ND	--	0.020 U	12/3/2015	ND	--	0.2 U	6/4/2015
Toluene	6.40E+02	ND	--	0.2 U	12/8/2015	ND	--	0.2 U	12/3/2015	ND	--	0.2 U	6/4/2015	ND	--	0.2 U	6/4/2015	**0.4**	5/20/2002	0.2 U	12/3/2015	ND	--	0.2 U	6/4/2015
trans-1,2-Dichloroethene	1.00E+02	**0.2**	12/4/2014	0.2 U	12/8/2015	**1.1**	9/2/1998	**0.4**	12/3/2015	ND	--	0.2 U	6/4/2015	ND	--	0.2 U	6/4/2015	**0.3**	9/9/1997	0.2 U	12/3/2015	ND	--	0.2 U	6/4/2015
Trichloroethene	5.40E-01	ND	--	0.2 U	12/8/2015	**0.2**	6/3/2008	0.2 U	12/3/2015	ND	--	0.2 U	6/4/2015	ND	--	0.2 U	6/4/2015	**0.7**	9/9/1997	0.2 U	12/3/2015	**2.6**	3/19/1998	**0.2**	6/4/2015
Vinyl Chloride	2.90E-02	**20.16**	2/9/1994	**1.7**	12/8/2015	**15.51**	2/9/1994	**1.1**	12/3/2015	**0.5**	12/5/2005	0.020 U	6/4/2015	**0.4**	11/2/2001	0.020 U	6/4/2015	**5.2**	8/30/1999	**0.041**	12/3/2015	**0.026**	6/8/2004	0.020 U	6/4/2015
DISSOLVED METALS (mg/L)																									
Aluminum	1.60E+01	--	--	--	--	ND	--	0.05 U	6/8/2004	**0.14**	9/3/1998	0.05 U	6/2/2004	**0.46**	11/7/2000	**0.26**	6/2/2004	**0.12**	6/8/2004	**0.12**	6/8/2004	ND	--	0.05 U	6/8/2004
Arsenic	8.00E-03	ND	--	0.001 U	12/11/1995	ND	--	0.001 U	12/7/2004	**0.004**	3/14/2000	0.001 U	12/1/2004	**0.002**	8/30/1999	0.001 U	12/1/2004	**0.072**	5/20/2002	**0.014**	12/7/2004	**0.001**	12/7/2004	**0.001**	12/7/2004
Barium	2.00E+00	--	--	--	--	**0.022**	12/7/2004	**0.022**	12/7/2004	**0.032**	5/20/2002	**0.029**	12/1/2004	**0.036**	11/7/2000	**0.008**	12/1/2004	**0.042**	5/21/2003	**0.022**	12/7/2004	**0.012**	6/8/2004	**0.008**	12/7/2004
Calcium	NA	--	--	--	--	**39**	6/8/2004	**39**	6/8/2004	**27.3**	5/20/2002	**24.3**	6/2/2004	**22.4**	11/7/2000	**8.51**	6/2/2004	**95.7**	5/21/2003	**75.8**	6/8/2004	**24.4**	6/8/2004	**24.4**	6/8/2004
Chromium, Hexavalent	4.80E-02	--	--	--	--	**0.011**	6/8/2004	0.011 U	12/7/2004	**0.011 J**	6/2/2004	**0.011 J**	6/2/2004	ND	--	0.01 U	11/25/2002	**0.034**	6/8/2004	0.011 U	12/7/2004	ND	--	0.011 U	12/7/2004
Chromium, Total	1.00E-01	ND	--	0.005 U	12/11/1995	ND	--	0.005 U	12/7/2004	**0.006**	11/25/2002	0.005 U	12/1/2004	**0.014**	11/7/2000	0.005 U	12/1/2004	**0.006**	6/8/2004	0.005 U	12/7/2004	ND	--	0.005 U	12/7/2004
Cobalt	NA	--	--	--	--	ND	--	.003 U	6/8/2004	ND	--	.003 U	6/2/2004	**0.004**	2/18/1999	.003 U	6/2/2004	**0.016**	6/8/2004	**0.016**	6/8/2004	ND	--	.003 U	6/8/2004
Copper	6.40E-01	--	--	--	--	ND	--	0.002 U	12/7/2004	**0.004**	5/16/2001	0.002 U	12/1/2004	**0.003**	3/14/2000	0.002 U	12/1/2004	**0.009**	9/9/1997	0.002 U	12/7/2004	**0.002**	9/9/1997	0.002 U	12/7/2004
Lead	1.50E-02	ND	--	0.001 U	12/11/1995	ND	--	0.001 U	12/7/2004	**0.002**	5/20/2002	0.001 U	12/1/2004	**0.002**	5/20/2002	0.001 U	12/1/2004	**0.002**	5/20/2002	0.001 U	12/7/2004	ND	--	0.001 U	12/7/2004
Magnesium	NA	--	--	--	--	**13.8**	6/8/2004	**13.8**	6/8/2004	**7.5**	5/21/2003	**6.85**	6/2/2004	**5.8**	9/3/1998	**2.29**	6/2/2004	**24.9**	5/21/2003	**18.7**	6/8/2004	**9.05**	6/8/2004	**9.05**	6/8/2004
Manganese	2.24E+00	--	--	--	--	**0.286**	9/26/1996	**0.208**	12/7/2004	**0.712**	5/21/2003	**0.662**	12/1/2004	**0.381**	11/2/2001	**0.104**	12/1/2004	**5.52**	5/20/2002	**4.22**	12/7/2004	**0.093**	6/8/2004	**0.047**	12/7/2004
Mercury	2.00E-03	ND	--	0.0001 U	12/11/1995	ND	--	0.0001 U	12/7/2004	ND	--	0.0001 U	12/1/2004	ND	--	0.0001 U	12/1/2004	**0.0001**	8/30/1999	0.0001 U	12/7/2004	ND	--	0.0001 U	12/7/2004
Nickel	1.00E-01	--	--	--	--	ND	--	0.01 U	12/7/2004	ND	--	0.01 U	12/1/2004	ND	--	0.01 U	12/1/2004	**0.01**	6/8/2004	0.01 U	12/7/2004	ND	--	0.01 U	12/7/2004
Potassium	NA	--	--	--	--	**4.3**	6/8/2004	**4.3**	6/8/2004	**5.6**	11/25/2002	**5.3**	6/2/2004	**6.3**	11/7/2000	**3.6**	6/2/2004	**12.3**	6/8/2004	**12.3**	6/8/2004	**4.4**	3/19/1998	**3.7**	6/8/2004
Silicon	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**22.6**	6/23/2011	**22.6**	6/23/2011
Sodium	NA	--	--	--	--	**16.6**	6/8/2004	**16.6**	6/8/2004	**79.4**	9/3/1998	**47.2**	6/2/2004	**175**	11/2/2001	**74**	6/2/2004	**26.2**	6/8/2004	**26.2**	6/8/2004	**9.8**	3/19/1998	**9.6**	6/8/2004
Thallium	1.60E-04	--	--	--	--	ND	--	0.001 U	12/7/2004	**0.001**	11/7/2000	0.001 U	12/1/2004	**0.001**	11/25/2002	0.001 U	12/1/2004	**0.001**	2/16/1999	0.001 U	12/7/2004	ND	--	0.001 U	12/7/2004
Vanadium	8.00E-02	--	--	--	--	**0.004**	12/7/2004	**0.004**	12/7/2004	**0.039**	9/3/1998	**0.025**	12/1/2004	**0.136**	11/7/2000	**0.043**	12/1/2004	**0.043**	6/8/2004	**0.019**	12/7/2004	ND	--	0.003 U	12/7/2004
Zinc	4.80E+00	--	--	--	--	ND	--	0.006 U	12/7/2004	**0.007**	11/25/2002	0.006 U	12/1/2004	**0.005**	9/3/1998	0.006 U	12/1/2004	**0.013**	9/9/1997	**0.008**	12/7/2004	**0.009**	9/9/1997	0.006 U	12/7/2004
SEMI-VOLATILES (µg/L)																									
4-Methylphenol	8.00E+02	ND	--	1 U	12/11/1995	ND	--	1 U	12/7/2004	ND	--	1 U	12/1/2004	ND	--	1 U	12/1/2004	**3.2**	5/20/2002	1 U	12/7/2004	ND	--	1 U	9/2/1998
bis(2-Ethylhexyl) Phthalate	6.00E+00	ND	--	1 U	12/11/1995	ND	--	1 U	12/7/2004	**1.4**	11/7/2000	1 U	12/1/2004	**15**	5/21/2003	1 U	12/1/2004	**3.9**	9/2/1998	**1.8**	12/7/2004	**48**	9/2/1998	**48**	9/2/1998
Butyl Benzyl Phthalate	4.61E+01	ND	--	1 U	12/11/1995	ND	--	1 U	12/7/2004	ND	--	1 U	12/1/2004	**2.3**	5/21/2003	1 U	12/1/2004	ND	--	1 U	12/7/2004	ND	--	1 U	9/2/1998
Di-n-octyl Phthalate	1.60E+02	ND	--	1 U	12/11/1995	ND	--	1 U	12/7/2004	ND	--	1 U	12/1/2004	**1.1**	5/21/2003	1 U	12/1/2004	ND	--	1 U	12/7/2004	ND	--	1 U	9/2/1998
PETROLEUM HYDROCARBONS (mg/L)																									
Diesel-Range Organics	5.00E-01	ND	--	0.25 U	12/11/1995	**0.37**	3/9/2000	0.25 U	12/7/2004	ND	--	0.25 U	12/1/2004	ND	--	0.25 U	12/1/2004	**1.4**	3/13/2000	0.25 U	12/7/2004	ND	--	0.25 U	12/7/2004

Table 6-4
SWMU S-06 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW079				AGW105				ASB0135-13	ASB0136-15	ASB0137-13	ASB0138-12	ASB0139-13	ASB0140-11	ASB0141-9	ASB0142-14
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	3/22/2004	3/22/2004	3/22/2004	3/22/2004	3/22/2004	3/22/2004	5/4/2004	5/4/2004
VOLATILES (µg/L)																	
1,1-Dichloroethane	7.68E+00	**0.5**	6/3/2010	0.5 U	12/7/2015	ND	--	0.5 U	12/7/2015	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	**0.6 J**
1,1-Dichloroethene	7.00E+00	**0.034**	12/8/2008	0.2 U	12/7/2015	**0.044**	12/8/2008	0.2 U	12/7/2015	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 UJ
1,2-Dichloroethane	4.81E-01	ND	--	0.2 U	12/7/2015	ND	--	0.2 U	12/7/2015	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 UJ
2-Butanone/MEK	4.80E+03	ND	--	5.0 U	12/7/2015	ND	--	5.0 U	12/7/2015	1 U	**1**	1 U	**1.1**	1 U	1 U	1 UJ	1 UJ
4-Methyl-2-pentanone	6.40E+02	**10**	12/9/2009	5.0 U	12/7/2015	ND	--	5.0 U	12/7/2015	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ
Acetone	7.20E+03	**9.3**	12/8/2008	5.0 U	12/7/2015	**1**	6/2/2004	5.0 U	12/7/2015	1 U	**1.7 M**	**1.5 M**	**3**	1 U	**1.5 M**	**3.1 J**	**2.6 J**
Carbon Disulfide	8.00E+02	**0.2**	12/8/2008	0.5 U	12/7/2015	ND	--	0.5 U	12/7/2015	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 UJ
Chloroform	1.41E+00	ND	--	0.2 U	12/7/2015	ND	--	0.2 U	12/7/2015	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**1.6 J**	0.2 UJ
Chloromethane	NA	ND	--	0.5 U	12/7/2015	ND	--	0.5 U	12/7/2015	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 UJ
cis-1,2-Dichloroethene	1.60E+01	**3**	12/8/2008	**0.4**	12/7/2015	**1.1**	6/5/2006	**0.6**	12/7/2015	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 UJ
Methylene Chloride	5.00E+00	ND	--	0.5 U	12/7/2015	**0.4**	12/5/2005	0.5 U	12/7/2015	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 UJ	0.3 UJ
Tetrachloroethene	5.00E+00	**0.029**	12/4/2012	0.2 U	12/7/2015	ND	--	0.2 U	12/7/2015	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 UJ
Toluene	6.40E+02	ND	--	0.2 U	12/7/2015	ND	--	0.2 U	12/7/2015	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	0.2 U	0.2 UJ	0.2 UJ
trans-1,2-Dichloroethene	1.00E+02	ND	--	0.2 U	12/7/2015	**0.2**	12/4/2006	0.2 U	12/7/2015	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 UJ
Trichloroethene	5.40E-01	ND	--	0.2 U	12/7/2015	**1.4**	6/16/2014	**0.9**	12/7/2015	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 UJ
Vinyl Chloride	2.90E-02	**2.1**	6/2/2009	**0.9**	12/7/2015	**1.8**	12/1/2004	**0.8**	12/7/2015	0.020 U	**0.083**	0.020 U	0.020 U	0.020 U	0.020 U	0.020 UJ	**0.4 J**
DISSOLVED METALS (mg/L)																	
Aluminum	1.60E+01	--	--	--	--	ND	--	0.05 U	6/2/2004	--	--	--	--	--	--	--	--
Arsenic	8.00E-03	--	--	--	--	**0.006**	12/1/2004	**0.006**	12/1/2004	--	--	--	--	--	--	--	--
Barium	2.00E+00	--	--	--	--	**0.011**	12/1/2004	**0.011**	12/1/2004	--	--	--	--	--	--	--	--
Calcium	NA	--	--	--	--	**30.9**	6/2/2004	**30.9**	6/2/2004	--	--	--	--	--	--	--	--
Chromium, Hexavalent	4.80E-02	--	--	--	--	**0.011 J**	6/2/2004	**0.011 R**	12/1/2004	--	--	--	--	--	--	--	--
Chromium, Total	1.00E-01	--	--	--	--	ND	--	0.005 U	12/1/2004	--	--	--	--	--	--	--	--
Cobalt	NA	--	--	--	--	ND	--	.003 U	6/2/2004	--	--	--	--	--	--	--	--
Copper	6.40E-01	--	--	--	--	ND	--	0.002 U	12/1/2004	--	--	--	--	--	--	--	--
Lead	1.50E-02	--	--	--	--	ND	--	0.001 U	12/1/2004	--	--	--	--	--	--	--	--
Magnesium	NA	--	--	--	--	**11.2**	6/2/2004	**11.2**	6/2/2004	--	--	--	--	--	--	--	--
Manganese	2.24E+00	--	--	--	--	**0.128**	6/2/2004	**0.119**	12/1/2004	--	--	--	--	--	--	--	--
Mercury	2.00E-03	--	--	--	--	ND	--	0.0001 U	12/1/2004	--	--	--	--	--	--	--	--
Nickel	1.00E-01	--	--	--	--	ND	--	0.01 U	12/1/2004	--	--	--	--	--	--	--	--
Potassium	NA	--	--	--	--	**4.7**	6/2/2004	**4.7**	6/2/2004	--	--	--	--	--	--	--	--
Silicon	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	NA	--	--	--	--	**18.6**	6/2/2004	**18.6**	6/2/2004	--	--	--	--	--	--	--	--
Thallium	1.60E-04	--	--	--	--	ND	--	0.001 U	12/1/2004	--	--	--	--	--	--	--	--
Vanadium	8.00E-02	--	--	--	--	**0.006**	12/1/2004	**0.006**	12/1/2004	--	--	--	--	--	--	--	--
Zinc	4.80E+00	--	--	--	--	**0.007**	6/2/2004	0.006 U	12/1/2004	--	--	--	--	--	--	--	--
SEMI-VOLATILES (µg/L)																	
4-Methylphenol	8.00E+02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl) Phthalate	6.00E+00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butyl Benzyl Phthalate	4.61E+01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-octyl Phthalate	1.60E+02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PETROLEUM HYDROCARBONS (mg/L)																	
Diesel-Range Organics	5.00E-01	--	--	--	--	ND	--	0.25 U	12/1/2004	--	--	--	--	--	--	--	--

Table 6-5
SWMU S-11 Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
Acetone	7.20E+03	0	5	2	3.6	2.2
Bromoform	5.54E+00	0	5	1	0.3	0.3
Carbon Disulfide	8.00E+02	0	5	2	0.8	0.3
Chloromethane	NA	NA	5	3	0.4	0.3
Toluene	6.40E+02	0	5	2	0.4	0.2

Table 6-6
SWMU S-11 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	ASB0155-32 8/23/2004	ASB0156-32 8/24/2004	ASB0177-25 9/8/2008	ASB0177-35 9/8/2008	ASB0177-45 9/8/2008
VOLATILES (µg/L)						
Acetone	7.20E+03	**2.2**	1 U	**3.6**	3 U	3 U
Bromoform	5.54E+00	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U
Carbon Disulfide	8.00E+02	**0.8**	**0.3**	0.2 U	0.2 U	0.2 U
Chloromethane	NA	0.2 U	0.2 U	**0.4**	**0.4**	**0.3**
Toluene	6.40E+02	**0.2**	**0.4**	0.2 U	0.2 U	0.2 U

Table 6-7
SWMU S-12d Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/kg)						
2-Butanone/MEK	4.80E+07	0	4	1	130	130
Acetone	7.20E+07	0	4	4	630	19

TABLE 6-8
SWMU S-12d Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	ASB0161-6 8/31/2004	ASB0161-14 8/31/2004	ASB0161-16 8/31/2004	ASB0162-6 8/31/2004	ASB0162-14 8/31/2004	ASB0162-15 8/31/2004
VOLATILES (µg/kg)							
2-Butanone/MEK	4.80E+07	**130**	--	8.6 U	7.1 U	--	9.7 U
Acetone	7.20E+07	**630**	--	**50**	**19**	--	**75**

Table 6-9
SWMU S-12d Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
1,1-Dichloroethane	7.68E+00	0	2	2	1.7	1.6
1,1-Dichloroethene	7.00E+00	0	2	2	0.059	0.034
Acetone	7.20E+03	0	2	2	2.2	2
cis-1,2-Dichloroethene	1.60E+01	0	2	2	4	3.7
trans-1,2-Dichloroethene	1.00E+02	0	2	2	0.4	0.3
Vinyl Chloride	2.90E-02	2	2	2	0.15	0.13

Table 6-10
SWMU S-12d Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	ASB0161-18 8/31/2004	ASB0162-17 8/31/2004
VOLATILES (µg/L)			
1,1-Dichloroethane	7.68E+00	**1.6**	**1.7**
1,1-Dichloroethene	7.00E+00	**0.059**	**0.034**
Acetone	7.20E+03	**2 J**	**2.2**
cis-1,2-Dichloroethene	1.60E+01	**4**	**3.7**
trans-1,2-Dichloroethene	1.00E+02	**0.4**	**0.3**
Vinyl Chloride	2.90E-02	**0.13 J**	**0.15 J**

Table 6-11
SWMU S-12f Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
Carbon Disulfide	8.00E+02	0	1	1	0.3	0.3
Toluene	6.40E+02	0	2	1	0.2	0.2

Table 6-12
SWMU S-12f Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	ASB0158-32 / 8/25/2004
VOLATILES (µg/L)		
Carbon Disulfide	8.00E+02	**0.3**
Toluene	6.40E+02	**0.2**

Table 6-13
SWMU S-13 Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
1,1-Dichloroethane	7.68E+00	0	61	3	2	1
1,1-Dichloroethene	7.00E+00	0	61	2	0.068	0.046
Acetone	7.20E+03	0	61	2	7.2	5.9
Carbon Disulfide	8.00E+02	0	61	2	2.3	0.8
Chloromethane	NA	0	61	1	0.6	0.6
cis-1,2-Dichloroethene	1.60E+01	0	61	61	3.9	0.2
Tetrachloroethene	5.00E+00	0	61	48	0.11	0.026
Toluene	6.40E+02	0	61	1	3.2	3.2
trans-1,2-Dichloroethene	1.00E+02	0	61	1	0.2	0.2
Trichloroethene	5.40E-01	60	61	60	5.3	0.6
Vinyl Chloride	2.90E-02	47	61	50	4.5	0.022
DISSOLVED METALS (mg/L)						
Aluminum	1.60E+01	0	2	1	0.04	0.04
Arsenic	8.00E-03	0	2	1	0.001	0.001
Barium	2.00E+00	0	2	2	0.01	0.008
Calcium	NA	0	1	1	24.2	24.2
Iron	1.12E+01	0	2	2	0.47	0.31
Magnesium	NA	0	1	1	7.98	7.98
Manganese	2.24E+00	0	3	3	0.5	0.347
Potassium	NA	0	1	1	3.5	3.5
Silicon	NA	0	1	1	25.2	25.2
Sodium	NA	0	1	1	10.8	10.8
Vanadium	8.00E-02	0	2	2	0.011	0.01

Table 6-14
SWMU S-13 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample Location:		AGW037				AGW164				AGW164-29
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	8/24/2010
VOLATILES (µg/L)										
1,1-Dichloroethane	7.68E+00	**2**	6/21/1996	0.5 U	12/3/2015	ND	--	0.5 U	12/8/2015	0.2 U
1,1-Dichloroethene	7.00E+00	**0.068**	12/15/2008	0.2 U	12/3/2015	ND	--	0.2 U	12/8/2015	0.2 U
Acetone	7.20E+03	ND	--	5.0 U	12/3/2015	**5.9**	8/24/2010	5.0 U	12/8/2015	**5.9**
Carbon Disulfide	8.00E+02	ND	--	0.5 U	12/3/2015	**0.8**	8/24/2010	0.5 U	12/8/2015	**0.8**
Chloromethane	NA	ND	--	0.5 U	12/3/2015	ND	--	0.5 U	12/8/2015	0.2 U
cis-1,2-Dichloroethene	1.60E+01	**2.6**	3/29/1996	**1.2**	12/3/2015	**3.9**	8/24/2010	**0.4**	12/8/2015	**3.9**
Tetrachloroethene	5.00E+00	**0.11**	6/10/2010	**0.08**	12/3/2015	**0.078**	3/3/2013	**0.029**	12/8/2015	0.02 U
Toluene	6.40E+02	ND	--	0.2 U	12/3/2015	ND	--	0.2 U	12/8/2015	0.2 U
trans-1,2-Dichloroethene	1.00E+02	ND	--	0.2 U	12/3/2015	**0.2**	8/24/2010	0.2 U	12/8/2015	**0.2**
Trichloroethene	5.40E-01	**5.3**	12/13/1996	**2.3**	12/3/2015	**1.8**	12/6/2012	**1.7**	12/8/2015	**0.9**
Vinyl Chloride	2.90E-02	**0.2**	12/3/2015	**0.2**	12/3/2015	**4.5 J**	8/24/2010	**0.1**	12/8/2015	**4.5 J**
DISSOLVED METALS (mg/L)										
Aluminum	1.60E+01	**0.04**	9/26/1996	0.05 U	6/16/2004	--	--	--	--	--
Arsenic	8.00E-03	**0.001**	12/10/2004	**0.001**	12/10/2004	--	--	--	--	--
Barium	2.00E+00	**0.01**	6/16/2004	**0.008**	12/10/2004	--	--	--	--	--
Calcium	NA	**24.2**	6/16/2004	**24.2**	6/16/2004	--	--	--	--	--
Iron	1.12E+01	**0.47**	6/19/2004	**0.31**	12/10/2004					--
Magnesium	NA	**7.98**	6/16/2004	**7.98**	6/16/2004	--	--	--	--	--
Manganese	2.24E+00	**0.5**	9/26/1996	**0.359**	12/10/2004	--	--	--	--	--
Potassium	NA	**3.5**	6/16/2004	**3.5**	6/16/2004	--	--	--	--	--
Silicon	NA	--	--	--	--	--	--	--	--	--
Sodium	NA	**10.8**	6/16/2004	**10.8**	6/16/2004	--	--	--	--	--
Vanadium	8.00E-02	**0.011**	12/10/2004	**0.011**	12/10/2004	--	--	--	--	--

Table 6-14
SWMU S-13 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample Location:		AGW165				AGW165-55	ASB0157-17			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	8/25/2010	Max	Date	Most Recent	Date
VOLATILES (µg/L)										
1,1-Dichloroethane	7.68E+00	ND	--	0.5 U	12/3/2015	0.2 U	ND	--	0.2 U	8/24/2004
1,1-Dichloroethene	7.00E+00	ND	--	0.2 U	12/3/2015	0.2 U	ND	--	0.02 U	8/24/2004
Acetone	7.20E+03	**7.2**	8/25/2010	5.0 U	12/3/2015	**7.2**	ND	--	1 U	8/24/2004
Carbon Disulfide	8.00E+02	**2.3**	8/25/2010	0.5 U	12/3/2015	**2.3**	ND	--	0.2 U	8/24/2004
Chloromethane	NA	**0.6 J**	8/25/2010	0.5 U	12/3/2015	**0.6 J**	ND	--	0.2 U	8/24/2004
cis-1,2-Dichloroethene	1.60E+01	**1.8**	6/19/2014	**1.2**	12/3/2015	**0.2**	**0.6**	8/24/2004	**0.6**	8/24/2004
Tetrachloroethene	5.00E+00	**0.077**	12/9/2013	**0.06**	12/3/2015	0.02 U	ND	--	0.2 U	8/24/2004
Toluene	6.40E+02	ND	--	0.2 U	12/3/2015	0.2 U	**3.2**	8/24/2004	**3.2**	8/24/2004
trans-1,2-Dichloroethene	1.00E+02	ND	--	0.2 U	12/3/2015	0.2 U	ND	--	0.2 U	8/24/2004
Trichloroethene	5.40E-01	**2.8**	12/8/2014	**2.3**	12/3/2015	**0.6**	ND	--	0.2 U	8/24/2004
Vinyl Chloride	2.90E-02	**0.4 J**	8/25/2010	**0.16**	12/3/2015	**0.4 J**	**0.94**	8/24/2004	**0.94**	8/24/2004
DISSOLVED METALS (mg/L)										
Aluminum	1.60E+01	--	--	--	--	--	--	--	**--**	--
Arsenic	8.00E-03	--	--	--	--	--	--	--	**--**	--
Barium	2.00E+00	--	--	--	--	--	--	--	**--**	--
Calcium	NA	--	--	--	--	--	--	--	**--**	--
Iron	1.12E+01					--				
Magnesium	NA	--	--	--	--	--	--	--	**--**	--
Manganese	2.24E+00	--	--	--	--	--	--	--	**--**	--
Potassium	NA	--	--	--	--	--	--	--	**--**	--
Silicon	NA	**25.2**	6/22/2011	**25.2**	06/22/11	--	--	--	--	--
Sodium	NA	--	--	--	--	--	--	--	**--**	--
Vanadium	8.00E-02	--	--	--	--	--	--	--	**--**	--

Table 6-15
SWMU S-15a/S-16 Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/kg)						
2-Butanone/MEK	4.80E+07	0	13	5	48	8.2
4-methyl-2-pentanone	6.40E+06	0	16	1	51	51
Acetone	7.20E+07	0	13	10	230	7.5
Benzene	4.48E+00	0	13	6	4.5	1.2
Carbon Disulfide	8.00E+06	0	16	2	2.5	1.2
m-&p-Xylenes	1.46E+04	0	13	4	2	1.2
Methylene Chloride	2.18E+01	0	16	3	4.3	2.3
o-Xylene	1.46E+04	0	16	1	1.1	1.1
Tetrachloroethene	4.76E+05	0	13	6	29	1.4
Toluene	4.65E+03	0	13	4	82	3.7
Trichloroethene	3.57E+00	1	13	3	5.4	1.6
TOTAL METALS (mg/kg)						
Beryllium	1.60E+02	0	34	27	0.26	0.1
Cadmium	1.00E+00	0	34	7	0.3	0.2
Chromium, Total	1.20E+05	0	34	34	27.6	9.3
Copper	2.84E+02	0	34	34	124	11.4
Lead	250 (b)	0	34	33	15	3
Nickel	1.30E+02	0	34	34	24.6	6
Selenium	4.00E+02	0	34	2	6	5
Silver	4.00E+02	0	34	3	0.4	0.4
Thallium	1.00E+00	3	34	3	11	5
Zinc	2.40E+04	0	34	34	391	17.8
PETROLEUM HYDROCARBONS (mg/kg)						
Diesel-Range Organics	2,000 (b)	2	12	9	3900	5.3
Oil-Range Organics	2,000 (b)	7	14	10	20000	12
Unax Oil Range	2,000 (d)	1	34	1	23900	23900
Way Oil Range	2,000 (d)	0	34	5	430	190
EXTRACTABLE PETROLEUM HYDROCARBONS (mg/kg)						
Aliphatic Hydrocarbons C16-C21	NA	NA	2	1	250000	250000
Aliphatic Hydrocarbons C21-C34	NA	NA	2	1	6900000	6900000
Aromatic Hydrocarbons C16-C21	NA	NA	2	1	44000	44000
Aromatic Hydrocarbons C21-C34	NA	NA	2	1	1100000	1100000
POLYCHLORINATED BIPHENYLS (µg/kg)						
Aroclor 1254	5.00E+02	0	10	3	180	130
Aroclor 1260	5.00E+02	0	10	3	100	90
Total PCBs	5.00E+02	0	10	4	270	100

Table 6-16
SWMU S-15a/S-16 Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	Sample Location: AGW041-2.0 5/30/1996	AGW041-10.0 5/30/1996	AGW042-2.0 5/30/1996	AGW042-10.0 5/30/1996	AGW043-2.0 5/30/1996	AGW043-10.0 5/30/1996	AGW044-2.0 5/29/1996	AGW044-10.0 5/30/1996	AGW045-2.0 5/29/1996	AGW045-11.0 5/30/1996	AGW127 9/8/2008	AGW128 9/12/2008	AGW129 9/11/2008	AGW130 9/11/2008	ASB0022-2.0 5/29/1996	ASB0022-7.0 5/29/1996	ASB0022-10.0 5/29/1996	ASB0023-2.0 5/29/1996
VOLATILES (µg/kg)																			
2-Butanone/MEK	4.80E+07	--	--	--	--	--	--	--	--	--	--	4.4 U	**8.8**	5.7 U	6.1 U	--	--	--	--
4-methyl-2-pentanone	6.40E+06	--	--	--	--	--	--	--	--	--	--	4.4 U	5.7 U	5.7 U	6.1 U	--	--	--	--
Acetone	7.20E+07	--	--	--	--	--	--	--	--	--	--	**31**	**42**	**43**	**16**	--	--	--	--
Benzene	4.48E+00	--	--	--	--	--	--	--	--	--	--	0.9 U	**2.8**	**1.9**	1.2 U	--	--	--	--
Carbon Disulfide	8.00E+06	--	--	--	--	--	--	--	--	--	--	**1.2**	**2.5**	1.1 U	1.2 U	--	--	--	--
m-&p-Xylenes	1.46E+04	--	--	--	--	--	--	--	--	--	--	0.9 U	**1.5**	1.1 U	1.2 U	--	--	--	--
Methylene Chloride	2.18E+01	--	--	--	--	--	--	--	--	--	--	2.3 U	**3.6**	**3.0**	**4.3**	--	--	--	--
o-Xylene	1.46E+04	--	--	--	--	--	--	--	--	--	--	0.9 U	1.2 U	1.1 U	1.2 U	--	--	--	--
Tetrachloroethene	4.76E+05	--	--	--	--	--	--	--	--	--	--	0.9 U	**2.7**	1.1 U	1.2 U	--	--	--	--
Toluene	4.65E+03	--	--	--	--	--	--	--	--	--	--	0.9 U	**21**	1.1 U	1.2 U	--	--	--	--
Trichloroethene	3.57E+00	--	--	--	--	--	--	--	--	--	--	0.9 U	1.2 U	**5.4**	1.2 U	--	--	--	--
TOTAL METALS (mg/kg)																			
Beryllium	1.60E+02	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.12**	**0.2**	**0.1**	**0.26**	**0.2**	--	--	--	--	**0.2**	**0.1**	0.1 U	**0.2**
Cadmium	1.00E+00	**0.3**	0.2 U	**0.3**	0.2 U	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	--	--	--	--	0.2 U	0.2 U	0.2 U	**0.3**
Chromium, Total	1.20E+05	**23**	**12**	**14.2**	**10.5**	**14.5**	**11.9**	**15.4**	**15.9**	**26.1**	**27.6**	--	--	--	--	**16.6**	**12.8**	**9.3**	**20.2**
Copper	2.84E+02	**23.9**	**17.4**	**86.7**	**13.6**	**14.2**	**14.6**	**15.2**	**15.1**	**41**	**32.2**	--	--	--	--	**19.7**	**13.6**	**11.4**	**23.2**
Lead	2.50E+02	**11**	**4**	**8**	**5**	**6**	**3**	**8**	**4**	**6**	**6**	--	--	--	--	**15**	**3**	2 U	**9**
Nickel	1.30E+02	**22**	**10**	**10**	**7**	**10**	**12.3**	**12**	**10**	**24.6**	**22**	--	--	--	--	**14**	**9**	**6**	**19**
Selenium	4.00E+02	5 U	5 U	5 U	6 U	5 U	5 U	5 U	5 U	**5**	**6**	--	--	--	--	6 U	5 U	6 U	5 U
Silver	4.00E+02	0.3 U	0.3 U	0.3 U	0.4 U	0.3 U	0.3 U	0.3 U	**0.4**	**0.4**	**0.4**	--	--	--	--	0.3 U	0.3 U	0.4 U	0.3 U
Thallium	1.00E+00	5 U	5 U	5 U	6 U	5 U	5 U	5 U	5 U	**10**	**11**	--	--	--	--	6 U	5 U	6 U	5 U
Zinc	2.40E+04	**43.4**	**25.3**	**216**	**38.8**	**28.9**	**24**	**29.1**	**25.5**	**79**	**50.6**	--	--	--	--	**93**	**23.9**	**17.8**	**43.3**
PETROLEUM HYDROCARBONS (mg/kg)																			
Diesel-Range Organics	2,000 (b)	--	--	--	--	--	--	--	--	--	--	**5.3**	**880**	5.7 U	**5.6**	--	--	--	--
Oil-Range Organics	2,000 (b)	--	--	--	--	--	--	--	--	--	--	11 U	**4,400**	**12**	11 U	--	--	--	--
Unax Oil Range	2,000 (d)	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	50 U	50 U	50 U	50 U
Way Oil Range	2,000 (d)	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**260**	--	--	--	--	**190**	50 U	50 U	**190**
EXTRACTABLE PETROLEUM HYDROCARBONS (µg/kg)																			
Aliphatic Hydrocarbons C16-C21	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aliphatic Hydrocarbons C21-C34	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aromatic Hydrocarbons C16-C21	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aromatic Hydrocarbons C21-C34	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POLYCHLORINATED BIPHENYLS/ PESTICIDES (µg/kg)																			
Aroclor 1254	5.00E+02	--	--	--	--	--	--	--	--	--	**170**	33 U	31 U	32 U	32 U	**130**	--	--	53 U
Aroclor 1260	5.00E+02	--	--	--	--	--	--	--	--	--	34 U	**100**	31 U	32 U	32 U	36 U	--	--	110 U
Total PCBs	5.00E+02	--	--	--	--	--	--	--	--	--	**170**	**100**	ND	ND	ND	**130**	--	--	ND

Table 6-16
SWMU S-15a/S-16 Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	Sample Location: ASB0023-5.0 5/29/1996	ASB0023-11.0 5/29/1996	ASB0024-2.0 5/29/1996	ASB0024-10.0 5/29/1996	ASB0025-2.0 5/29/1996	ASB0025-7.5 5/29/1996	ASB0025-10.0 5/29/1996	ASB0026-2.0 5/29/1996	ASB0026-11.0 5/29/1996	ASB0027-2.0 5/29/1996	ASB0027-7.5 5/29/1996	ASB0027-10.0 5/29/1996	ASB0028-2.0 5/29/1996	ASB0028-7.5 5/29/1996	ASB0029-2.0 5/29/1996	ASB0029-10.0 5/29/1996	ASB0030-2.0 5/29/1996	ASB0030-10.0 5/31/1996
VOLATILES (µg/kg)																			
2-Butanone/MEK	4.80E+07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-methyl-2-pentanone	6.40E+06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	7.20E+07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	4.48E+00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	8.00E+06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m-&p-Xylenes	1.46E+04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	2.18E+01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	1.46E+04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	4.76E+05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	4.65E+03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	3.57E+00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL METALS (mg/kg)																			
Beryllium	1.60E+02	**0.1**	0.1 U	**0.1**	**0.1**	**0.1**	0.1 U	**0.1**	**0.1**	0.1 U	**0.2**	**0.1**	0.1 U	**0.2**	0.1 U	**0.1**	0.1 U	**0.1**	**0.2**
Cadmium	1.00E+00	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chromium, Total	1.20E+05	**10.9**	**12.7**	**13.5**	**11.4**	**16.1**	**11.5**	**11**	**9.9**	**12.2**	**21.8**	**14**	**12.9**	**13.9**	**11.2**	**11.5**	**10.4**	**12**	**21**
Copper	2.84E+02	**15.6**	**15.9**	**14.7**	**17.1**	**27.2**	**14.1**	**14.3**	**13.6**	**15.9**	**124**	**36**	**17.2**	**27.6**	**15.7**	**12.9**	**13.5**	**16.1**	**21.2**
Lead	2.50E+02	**3**	**3**	**6**	**4**	**9**	**4**	**4**	**3**	**4**	**12**	**5**	**6**	**7**	**5**	**4**	**4**	**6**	**5**
Nickel	1.30E+02	**8**	**8**	**10**	**9**	**11**	**8**	**7**	**9**	**10**	**9**	**9**	**10**	**12**	**9**	**8**	**7**	**9**	**10**
Selenium	4.00E+02	5 U	6 U	5 U	6 U	5 U	5 U	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U	5 U	5 U	5 U	5 U
Silver	4.00E+02	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Thallium	1.00E+00	5 U	6 U	5 U	6 U	5 U	5 U	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U	5 U	5 U	5 U	5 U
Zinc	2.40E+04	**36.5**	**24.2**	**27.3**	**25.1**	**41**	**22.1**	**22.7**	**23.7**	**27.2**	**391**	**81.6**	**26.8**	**63.3**	**22.7**	**21.7**	**19.4**	**25.9**	**27.4**
PETROLEUM HYDROCARBONS (mg/kg)																			
Diesel-Range Organics	2,000 (b)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil-Range Organics	2,000 (b)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Unax Oil Range	2,000 (d)	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Way Oil Range	2,000 (d)	50 U	50 U	50 U	50 U	**390**	50 U	50 U	50 U	50 U	**430**	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
EXTRACTABLE PETROLEUM HYDROCARBONS (µg/kg)																			
Aliphatic Hydrocarbons C16-C21	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aliphatic Hydrocarbons C21-C34	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aromatic Hydrocarbons C16-C21	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aromatic Hydrocarbons C21-C34	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POLYCHLORINATED BIPHENYLS/ PESTICIDES (µg/kg)																			
Aroclor 1254	5.00E+02	--	--	--	--	**180**	--	--	--	--	36 U	--	--	--	--	--	--	--	--
Aroclor 1260	5.00E+02	--	--	--	--	**90**	--	--	--	--	36 U	--	--	--	--	--	--	--	--
Total PCBs	5.00E+02	--	--	--	--	**270**	--	--	--	--	ND	--	--	--	--	--	--	--	--

Table 6-16
SWMU S-15a/S-16 Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	Sample Location: ASB0031-2.0 5/29/1996	ASB0031-10.0 5/31/1996	ASB0159-16 8/30/2004	ASB0159-18 8/30/2004	ASB0160R-17.5 9/7/2004	ASB0167-5 9/7/2004	ASB0167-15 9/7/2004	ASB0167-20 9/7/2004	ASB0168-15 9/8/2004	ASB0168-17.5 9/8/2004	ASB0169-15 9/8/2004	ASB0169-17.5 9/8/2004	ASB0170-15 9/9/2004	ASB0170-17.5 9/9/2004	ASB0171-15 9/9/2004	ASB0171-17.5 9/9/2004
VOLATILES (µg/kg)																	
2-Butanone/MEK	4.80E+07	--	--	4.6 UJ	--	--	7.4 U	--	4.8 U	--	--	6.2 UJ	4.6 U	**48** J	**8.2** J	**37** J	**8.5** J
4-methyl-2-pentanone	6.40E+06	--	--	4.6 UJ	--	**51** J	7.4 U	--	4.8 U	6.4 UJ	5 U	6.2 UJ	4.6 U	3.9 UJ	4.8 UJ	5.7 UJ	**5.7** UJ
Acetone	7.20E+07	--	--	4.6 UJ	--	--	7.4 U	--	4.8 U	--	--	**11** J	**23**	**230** J	**91** J	**190** J	**50** J
Benzene	4.48E+00	--	--	0.9 UJ	--	--	1.5 U	--	1 U	--	--	1.2 UJ	0.9 U	**1.6** J	**1.2** J	**2.6** J	**4.5** J
Carbon Disulfide	8.00E+06	--	--	0.9 UJ	--	1 UJ	1.5 U	--	1 U	1.3 UJ	1 U	1.2 UJ	0.9 U	0.8 UJ	1 UJ	1.1 UJ	1.1 UJ
m-&p-Xylenes	1.46E+04	--	--	0.9 UJ	--	--	1.5 U	--	1 U	--	--	1.2 UJ	0.9 U	**1.2** J	1 UJ	**1.5** J	**2** J
Methylene Chloride	2.18E+01	--	--	1.9 UJ	--	2.1 UJ	3 U	--	1.9 U	2.6 UJ	2 U	2.5 UJ	1.9 U	1.6 UJ	1.9 UJ	2.3 UJ	2.2 UJ
o-Xylene	1.46E+04	--	--	0.9 UJ	--	**1.1** J	1.5 U	--	1 U	1.3 UJ	1 U	1.2 UJ	0.9 U	0.8 UJ	1 UJ	1.1 UJ	1.1 UJ
Tetrachloroethene	4.76E+05	--	--	0.9 UJ	--	--	1.5 U	--	1 U	--	--	**2.8** J	0.9 U	**5.3** J	**13** J	**8** J	**29** J
Toluene	4.65E+03	--	--	0.9 UJ	--	--	1.5 U	--	1 U	--	--	1.2 UJ	0.9 U	**82** J	**3.7** J	**8** J	**6.5** J
Trichloroethene	3.57E+00	--	--	0.9 UJ	--	--	1.5 U	--	1 U	--	--	1.2 UJ	0.9 U	0.8 UJ	**1.6** J	1.1 UJ	**3** J
TOTAL METALS (mg/kg)																	
Beryllium	1.60E+02	**0.2**	**0.1**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	1.00E+00	0.2 U	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium, Total	1.20E+05	**14.4**	**11.1**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	2.84E+02	**17.3**	**15.5**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	2.50E+02	**8**	**3**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	1.30E+02	**13**	**9**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	4.00E+02	5 U	5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver	4.00E+02	0.3 U	0.3 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	1.00E+00	5 U	**5**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	2.40E+04	**42.3**	**28.1**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PETROLEUM HYDROCARBONS (mg/kg)																	
Diesel-Range Organics	2,000 (b)	--	--	5 U	--	--	--	--	5 U	--	--	**320**	**460**	**3900**	**2200**	**1600**	**1200**
Oil-Range Organics	2,000 (b)	--	--	10 U	--	--	--	--	10 U	**1400**	**240**	**2100**	**2900**	**20000**	**13000**	**9500**	**7000**
Unax Oil Range	2,000 (d)	50 U	**23900**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Way Oil Range	2,000 (d)	50 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EXTRACTABLE PETROLEUM HYDROCARBONS (µg/kg)																	
Aliphatic Hydrocarbons C16-C21	NA	--	--	2300 U	--	--	--	--	--	--	--	--	--	--	--	--	**250000** J
Aliphatic Hydrocarbons C21-C34	NA	--	--	2300 U	--	--	--	--	--	--	--	--	--	--	--	--	**6900000** J
Aromatic Hydrocarbons C16-C21	NA	--	--	2300 U	--	--	--	--	--	--	--	--	--	--	--	--	**44000**
Aromatic Hydrocarbons C21-C34	NA	--	--	2300 U	--	--	--	--	--	--	--	--	--	--	--	--	**1100000**
POLYCHLORINATED BIPHENYLS/ PESTICIDES (µg/kg)																	
Aroclor 1254	5.00E+02	--	38 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	5.00E+02	--	38 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total PCBs	5.00E+02	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 6-17
SWMU S-15a/S-16 Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
1,1,1-Trichloroethane	2.00E+02	0	221	3	0.6	0.3
1,1,2,2-Tetrachloroethane	2.19E-01	1	221	1	0.5	0.5
4-Methyl-2-pentanone	6.40E+02	0	221	1	79	79
Acetone	7.20E+03	0	221	24	24	1.1
Benzene	7.95E-01	1	221	6	0.9	0.2
Carbon Disulfide	8.00E+02	0	221	3	0.4	0.2
Chloroform	1.41E+00	0	221	1	1.3	1.3
Chloromethane	NA	NA	211	1	0.2	0.2
cis-1,2-Dichloroethene	1.60E+01	0	221	49	9.3	0.2
Ethylbenzene	7.00E+02	0	221	5	0.3	0.2
m-&p-Xylenes	1.60E+03	0	221	5	0.8	0.4
2-Butanone/MEK	4.80E+03	0	221	9	26	1.7
Tetrachloroethene	5.00E+00	0	313	233	1.6	0.023
Toluene	6.40E+02	0	221	14	7.4	0.2
Trichloroethene	5.40E-01	63	221	148	2.3	0.2
Trichlorofluoromethane	2.40E+03	0	221	1	0.2	0.2
Vinyl Chloride	2.90E-02	36	383	39	1	0.022
DISSOLVED METALS (mg/L)						
Aluminum	1.60E+01	0	5	1	0.02	0.02
Antimony	6.00E-03	0	11	1	0.002	0.002
Arsenic	8.00E-03	0	11	1	0.002	0.002
Barium	2.00E+00	0	5	5	0.006	0.005
Calcium	NA	NA	5	5	21.6	18.7
Copper	6.40E-01	0	11	1	0.017	0.017
Magnesium	NA	NA	5	5	6.3	5.38
Potassium	NA	NA	5	5	3	2.4
Sodium	NA	NA	5	5	9.17	8.54
Vanadium	8.00E-02	0	5	1	0.003	0.003
PETROLEUM HYDROCARBONS (mg/L)						
Diesel-Range Organics	5.00E-01	23	152	29	5.4	0.13
Oil-Range Organics	5.00E-01	29	151	30	16	0.23

Table 6-18
SWMU S-15a/S-16 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW041				AGW042				AGW043				AGW044				AGW045				AGW115			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)																									
1,1,1-Trichloroethane	2.00E+02	ND	--	0.5 U	6/3/2015	ND	--	1 U	3/12/1997	**0.6**	2/15/1999	0.2 U	12/18/2003	ND	--	0.5 U	6/9/2015	ND	--	1 U	3/12/1997	ND	--	0.5 U	12/9/2015
1,1,2,2-Tetrachloroethane	2.19E-01	ND	--	0.2 U	6/3/2015	ND	--	1 U	3/12/1997	ND	--	0.2 U	12/18/2003	ND	--	0.2 U	6/9/2015	ND	--	1 U	3/12/1997	ND	--	0.2 U	12/9/2015
4-Methyl-2-pentanone	6.40E+02	ND	--	5.0 U	6/3/2015	ND	--	5 U	3/12/1997	ND	--	1 U	12/18/2003	ND	--	5.0 U	6/9/2015	ND	--	5 U	3/12/1997	ND	--	5.0 U	12/9/2015
Acetone	7.20E+03	**2.4**	12/7/2005	5.0 U	6/3/2015	ND	--	5 U	3/12/1997	**1.2**	8/31/1998	1 U	12/18/2003	**4.6**	12/11/2008	5.0 U	6/9/2015	**12**	12/18/1996	5 U	3/12/1997	**11**	6/5/2008	5.0 U	12/9/2015
Benzene	7.95E-01	ND	--	0.2 U	6/3/2015	ND	--	1 U	3/12/1997	ND	--	0.2 U	12/18/2003	ND	--	0.2 U	6/9/2015	ND	--	1 U	3/12/1997	ND	--	0.2 U	12/9/2015
Carbon Disulfide	8.00E+02	ND	--	0.5 U	6/3/2015	ND	--	1 U	3/12/1997	ND	--	0.2 U	12/18/2003	ND	--	0.5 U	6/9/2015	ND	--	1 U	3/12/1997	ND	--	0.5 U	12/9/2015
Chloroform	1.41E+00	ND	--	0.2 U	6/3/2015	ND	--	1 U	3/12/1997	ND	--	0.2 U	12/18/2003	**1.3**	6/11/1996	0.2 U	6/9/2015	ND	--	1 U	3/12/1997	ND	--	0.2 U	12/9/2015
Chloromethane	NA	**0.2**	12/13/2007	0.5 U	6/3/2015	ND	--	2 U	3/12/1997	ND	--	0.2 U	12/18/2003	ND	--	0.5 U	6/9/2015	ND	--	2 U	3/12/1997	ND	--	0.5 U	12/9/2015
cis-1,2-Dichloroethene	1.60E+01	ND	--	0.2 U	6/3/2015	ND	--	1 U	3/12/1997	ND	--	0.2 U	12/18/2003	**0.6**	12/13/2007	0.2 U	6/9/2015	**3.1**	10/1/1996	1 U	3/12/1997	**9.3**	12/7/2005	**3.2**	12/9/2015
Ethylbenzene	7.00E+02	**0.3**	12/8/2006	0.5 U	6/3/2015	ND	--	1 U	3/12/1997	ND	--	0.2 U	12/18/2003	**0.3**	12/8/2006	0.5 U	6/9/2015	ND	--	1 U	3/12/1997	**0.2**	12/8/2006	0.5 U	12/9/2015
m-&p-Xylenes	1.60E+03	**0.8**	12/8/2006	0.5 U	6/3/2015	ND	--	1 U	3/12/1997	ND	--	0.4 U	12/18/2003	**0.7**	12/8/2006	0.5 U	6/9/2015	ND	--	1 U	3/12/1997	**0.5**	12/8/2006	0.5 U	12/9/2015
Methyl Ethyl Ketone	4.80E+03	ND	--	5.0 U	6/3/2015	ND	--	5 U	3/12/1997	ND	--	1 U	12/18/2003	ND	--	5.0 U	6/9/2015	ND	--	5 U	3/12/1997	ND	--	5.0 U	12/9/2015
Tetrachloroethene	5.00E+00	**1.6 J**	9/27/1996	**0.3**	6/3/2015	ND	--	1 U	3/12/1997	**0.8**	3/24/1998	**0.3**	12/18/2003	**0.1**	6/23/2014	**0.046**	6/9/2015	ND	--	1 U	3/12/1997	**0.4**	6/6/2007	**0.031**	12/9/2015
Toluene	6.40E+02	**0.2**	8/11/2005	0.2 U	6/3/2015	ND	--	1 U	3/12/1997	ND	--	0.2 U	12/18/2003	ND	--	0.2 U	6/9/2015	**2.3**	6/11/1996	1 U	3/12/1997	**0.2**	5/27/2005	0.2 U	12/9/2015
Trichloroethene	5.40E-01	**2.3 J**	9/27/1996	**0.4**	6/3/2015	**1.1 J**	9/27/1996	1 U	3/12/1997	**1.7 J**	9/27/1996	**0.6**	12/18/2003	**0.2**	12/7/2005	0.2 U	6/9/2015	**1.1**	6/11/1996	1 U	3/12/1997	**0.6**	6/6/2007	0.2 U	12/9/2015
Trichlorofluoromethane	2.40E+03	ND	--	0.5 U	6/3/2015	ND	--	2 U	3/12/1997	ND	--	0.2 U	12/18/2003	ND	--	0.5 U	6/9/2015	ND	--	2 U	3/12/1997	ND	--	0.5 U	12/9/2015
Vinyl Chloride	2.90E-02	ND	--	0.020 U	6/3/2015	ND	--	2 U	3/12/1997	ND	--	0.2 U	12/18/2003	ND	--	0.020 U	6/9/2015	ND	--	2 U	3/12/1997	**1**	6/12/2013	**0.5**	12/9/2015
DISSOLVED METALS (mg/L)																									
Aluminum	1.60E+01	**--**	--	**--**	--	**--**	--	**--**	--	**0.02**	3/24/1998	0.02 U	3/8/2000	**--**	--	**--**	--	**--**	--	**--**	--	**--**	--	**--**	--
Antimony	6.00E-03	ND	--	0.001 U	6/11/1996	**0.002**	6/11/1996	**0.002**	6/11/1996	ND	--	0.05 U	3/8/2000	ND	--	0.001 U	6/11/1996	ND	--	0.001 U	6/11/1996	**--**	--	**--**	--
Arsenic	8.00E-03	ND	--	0.001 U	6/11/1996	ND	--	0.001 U	6/11/1996	ND	--	0.001 U	3/8/2000	**0.002**	6/11/1996	**0.002**	6/11/1996	ND	--	0.001 U	6/11/1996	**--**	--	**--**	--
Barium	2.00E+00	**--**	--	**--**	--	**--**	--	**--**	--	**0.006**	3/8/2000	**0.006**	3/8/2000	**--**	--	**--**	--	**--**	--	**--**	--	**--**	--	**--**	--
Calcium	NA	**--**	--	**--**	--	**--**	--	**--**	--	**21.6**	8/24/1999	**20.6**	3/8/2000	**--**	--	**--**	--	**--**	--	**--**	--	**--**	--	**--**	--
Copper	6.40E-01	ND	--	0.002 U	6/11/1996	ND	--	0.002 U	6/11/1996	ND	--	0.002 U	3/8/2000	**0.017**	6/11/1996	**0.017**	6/11/1996	ND	--	0.002 U	6/11/1996	**--**	--	**--**	--
Magnesium	NA	**--**	--	**--**	--	**--**	--	**--**	--	**6.3**	2/15/1999	**5.96**	3/8/2000	**--**	--	**--**	--	**--**	--	**--**	--	**--**	--	**--**	--
Potassium	NA	**--**	--	**--**	--	**--**	--	**--**	--	**3**	2/15/1999	**2.4**	3/8/2000	**--**	--	**--**	--	**--**	--	**--**	--	**--**	--	**--**	--
Sodium	NA	**--**	--	**--**	--	**--**	--	**--**	--	**9.17**	2/15/1999	**9.12**	3/8/2000	**--**	--	**--**	--	**--**	--	**--**	--	**--**	--	**--**	--
Vanadium	8.00E-02	**--**	--	**--**	--	**--**	--	**--**	--	**0.003**	2/15/1999	0.003 U	3/8/2000	**--**	--	**--**	--	**--**	--	**--**	--	**--**	--	**--**	--
PETROLEUM HYDROCARBONS (mg/L)																									
Diesel-Range Organics	5.00E-01	ND	--	0.095 U	6/13/2013	**--**	--	**--**	--	ND	--	0.25 U	1/15/2009	**4.7**	6/6/2007	**1.9**	6/9/2015	**--**	--	**--**	--	ND	--	0.094 U	12/11/2013
Oil-Range Organics	5.00E-01	ND	--	0.24 U	6/13/2013	**--**	--	**--**	--	**2.7**	2/15/1999	0.5 U	1/15/2009	**4.7**	6/12/2013	**0.94**	6/9/2015	**--**	--	**--**	--	ND	--	0.23 U	12/11/2013

Table 6-18
SWMU S-15a/S-16 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW116				AGW117				AGW118				AGW127				AGW128				AGW129			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)																									
1,1,1-Trichloroethane	2.00E+02	ND	--	0.5 U	12/9/2015	ND	--	0.5 U	12/9/2015	ND	--	0.5 U	12/9/2015	ND	--	0.5 U	6/3/2015	ND	--	0.5 U	12/9/2015	ND	--	0.5 U	12/9/2015
1,1,2,2-Tetrachloroethane	2.19E-01	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	6/3/2015	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	12/9/2015
4-Methyl-2-pentanone	6.40E+02	ND	--	5.0 U	12/9/2015	ND	--	5.0 U	12/9/2015	ND	--	5.0 U	12/9/2015	ND	--	5.0 U	6/3/2015	ND	--	5.0 U	12/9/2015	ND	--	5.0 U	12/9/2015
Acetone	7.20E+03	**7.5**	12/11/2008	5.0 U	12/9/2015	**2.8**	11/23/2004	5.0 U	12/9/2015	**2.1**	11/23/2004	5.0 U	12/9/2015	**7.9**	6/14/2010	5.0 U	6/3/2015	**9.7**	12/7/2010	**6.0**	12/9/2015	ND	--	5.0 U	12/9/2015
Benzene	7.95E-01	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	6/3/2015	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	12/9/2015
Carbon Disulfide	8.00E+02	**0.2**	12/8/2006	0.5 U	12/9/2015	ND	--	0.5 U	12/9/2015	**0.4**	12/8/2006	0.5 U	12/9/2015	ND	--	0.5 U	6/3/2015	**0.2**	12/7/2010	0.5 U	12/9/2015	ND	--	0.5 U	12/9/2015
Chloroform	1.41E+00	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	6/3/2015	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	12/9/2015
Chloromethane	NA	ND	--	0.5 U	12/9/2015	ND	--	0.5 U	12/9/2015	ND	--	0.5 U	12/9/2015	ND	--	0.5 U	6/3/2015	ND	--	0.5 U	12/9/2015	ND	--	0.5 U	12/9/2015
cis-1,2-Dichloroethene	1.60E+01	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	6/3/2015	ND	--	0.2 U	12/9/2015	**1.2**	12/11/2008	**0.4**	12/9/2015
Ethylbenzene	7.00E+02	**0.3**	6/11/2009	0.5 U	12/9/2015	ND	--	0.5 U	12/9/2015	**0.2**	12/8/2006	0.5 U	12/9/2015	ND	--	0.5 U	6/3/2015	ND	--	0.5 U	12/9/2015	ND	--	0.5 U	12/9/2015
m-&p-Xylenes	1.60E+03	**0.4**	12/8/2006	0.5 U	12/9/2015	ND	--	0.5 U	12/9/2015	**0.5**	12/8/2006	0.5 U	12/9/2015	ND	--	0.5 U	6/3/2015	ND	--	0.5 U	12/9/2015	ND	--	0.5 U	12/9/2015
Methyl Ethyl Ketone	4.80E+03	ND	--	5.0 U	12/9/2015	ND	--	5.0 U	12/9/2015	**1.7**	6/13/2006	5.0 U	12/9/2015	ND	--	5.0 U	6/3/2015	**9.5**	12/11/2008	**5.1**	12/9/2015	ND	--	5.0 U	12/9/2015
Tetrachloroethene	5.00E+00	**1**	12/8/2006	**0.5**	12/9/2015	**1.1**	12/8/2006	**0.5**	12/9/2015	**1.3**	12/8/2006	**0.6**	12/9/2015	**0.5**	12/10/2008	0.2 U	6/3/2015	**0.3**	6/14/2010	**0.13**	12/9/2015	**0.7**	6/11/2009	**0.5**	12/9/2015
Toluene	6.40E+02	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	12/9/2015	ND	--	0.2 U	6/3/2015	**1.9**	6/23/2014	0.2 U	12/9/2015	ND	--	0.2 U	12/9/2015
Trichloroethene	5.40E-01	**0.5**	6/11/2009	**0.2**	12/9/2015	**1 J**	6/10/2014	**0.3**	12/9/2015	**0.8**	12/7/2005	**0.3**	12/9/2015	**0.3**	10/1/2008	0.2 U	6/3/2015	**0.5**	10/1/2008	0.2 U	12/9/2015	**1.7**	12/11/2008	**0.6**	12/9/2015
Trichlorofluoromethane	2.40E+03	ND	--	0.5 U	12/9/2015	**0.2**	12/7/2005	0.5 U	12/9/2015	ND	--	0.5 U	12/9/2015	ND	--	0.5 U	6/3/2015	ND	--	0.5 U	12/9/2015	ND	--	0.5 U	12/9/2015
Vinyl Chloride	2.90E-02	**0.022**	6/11/2009	0.2 U	12/9/2015	**0.041 J**	6/6/2007	0.2 U	12/9/2015	**0.028**	6/11/2009	0.2 U	12/9/2015	ND	--	0.020 U	6/3/2015	**0.34**	6/12/2013	0.020 U	12/9/2015	ND	--	0.2 U	12/9/2015
DISSOLVED METALS (mg/L)																									
Aluminum	1.60E+01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	6.00E-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	8.00E-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	2.00E+00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	6.40E-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	8.00E-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PETROLEUM HYDROCARBONS (mg/L)																									
Diesel-Range Organics	5.00E-01	ND	--	0.095 U	12/11/2013	ND	--	0.094 U	12/10/2013	**1.6**	6/6/2007	0.094 U	12/11/2013	ND	--	0.095 U	12/10/2013	**5.4**	12/5/2014	**5.0**	12/9/2015	ND	--	0.095 U	12/11/2013
Oil-Range Organics	5.00E-01	ND	--	0.24 U	12/11/2013	ND	--	0.24 U	12/10/2013	**1.1**	6/6/2007	0.23 U	12/11/2013	ND	--	0.24 U	12/10/2013	**16**	12/5/2014	**4.3**	12/9/2015	ND	--	0.24 U	12/11/2013

Table 6-18
SWMU S-15a/S-16 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW130-35	AGW130-45	AGW130				ASB0159-19	ASB0160R-18	ASB0167-18	ASB0168-18	ASB0169-18	ASB0170-18	ASB0171-18
Detected Analyte	**Screening Level**	**9/11/2008**	**9/11/2008**	**Max**	**Date**	**Most Recent**	**Date**	**8/30/2004**	**9/7/2004**	**9/7/2004**	**9/8/2004**	**9/8/2004**	**9/9/2004**	**9/9/2004**
VOLATILES (µg/L)														
1,1,1-Trichloroethane	2.00E+02	0.2 U	0.2 U	ND	--	0.5 U	12/9/2015	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	2.19E-01	0.2 U	0.2 U	ND	--	0.2 U	12/9/2015	**0.5 J**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-Methyl-2-pentanone	6.40E+02	2.5 U	2.5 U	ND	--	5.0 U	12/9/2015	1 UJ	**79**	1 U	1 U	1 U	1 U	1 U
Acetone	7.20E+03	3 U	**4.8**	ND	--	5.0 U	12/9/2015	1 UJ	**24**	**3.7**	**6.1**	**2**	**5.7**	**7.2**
Benzene	7.95E-01	0.2 U	**0.2**	ND	--	0.2 U	12/9/2015	0.2 UJ	**0.7**	0.2 U	**0.9**	**0.3**	**0.3**	**0.7**
Carbon Disulfide	8.00E+02	0.2 U	**0.2**	ND	--	0.5 U	12/9/2015	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroform	1.41E+00	0.2 U	0.2 U	ND	--	0.2 U	12/9/2015	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	NA	0.2 U	0.2 U	ND	--	0.5 U	12/9/2015	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	1.60E+01	0.2 U	0.2 U	**0.5**	10/1/2008	0.2 U	12/9/2015	0.2 UJ	0.2 U	**0.4**	0.2 U	**0.4**	**0.2**	0.2 U
Ethylbenzene	7.00E+02	0.2 U	0.2 U	ND	--	0.5 U	12/9/2015	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m-&p-Xylenes	1.60E+03	0.4 U	0.4 U	ND	--	0.5 U	12/9/2015	0.4 UJ	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Methyl Ethyl Ketone	4.80E+03	2.5 U	2.5 U	ND	--	5.0 U	12/9/2015	1 UJ	**26**	1 U	**2.4**	1 U	**2.7**	**2.1**
Tetrachloroethene	5.00E+00	**0.3**	**0.2**	**0.7**	12/11/2008	**0.4**	12/9/2015	**0.6 J**	0.2 U	**0.4**	**0.2**	**0.2**	**0.8**	**0.8**
Toluene	6.40E+02	0.2 U	**0.2**	ND	--	0.2 U	12/9/2015	0.2 UJ	**7.4**	0.2 U	**0.4**	**0.2**	**2**	**0.6**
Trichloroethene	5.40E-01	**0.6**	**0.5**	**0.6**	6/11/2009	**0.4**	12/9/2015	**1.8 J**	**0.5**	**0.8**	**0.6**	**0.6**	**0.7**	**0.8**
Trichlorofluoromethane	2.40E+03	0.2 U	0.2 U	ND	--	0.5 U	12/9/2015	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride	2.90E-02	0.2 U	0.2 U	ND	--	0.2 U	12/9/2015	0.020 UJ	0.020 U	0.020 U	0.020 U	**0.025**	0.020 U	0.020 U
DISSOLVED METALS (mg/L)														
Aluminum	1.60E+01	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	6.00E-03	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	8.00E-03	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	2.00E+00	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	NA	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	6.40E-01	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	NA	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	NA	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	NA	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	8.00E-02	--	--	--	--	--	--	--	--	--	--	--	--	--
PETROLEUM HYDROCARBONS (mg/L)														
Diesel-Range Organics	5.00E-01	--	--	ND	--	0.095 U	12/9/2015	0.25 U	**1.5**	0.25 U	**0.32**	**0.46**	**0.69**	**0.61**
Oil-Range Organics	5.00E-01	--	--	ND	--	0.24 U	12/9/2015	0.5 U	**10**	0.5 U	**1.8**	**2.7**	**3.7**	**3.4**

Table 6-19
SWMU S-15c Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/kg)						
2-Butanone/MEK	4.80E+07	0	3	1	10	10
Acetone	7.20E+07	0	3	2	68	26
Benzene	4.48E+00	0	3	1	2.1	2.1
Carbon Disulfide	8.00E+06	0	3	1	2.1	2.1
Chloromethane	NA	NA	3	1	1.9	1.9
Methylene Chloride	2.18E+01	0	3	1	2.4	2.4
Trichloroethene	3.57E+00	0	3	2	2	1.8
PETROLEUM HYDROCARBONS (mg/kg)						
Diesel-Range Organics	2,000 (b)	0	2	2	170	6.8
Gasoline-Range Organics	100 (b,c)	0	2	1	7.1	7.1
Oil-Range Organics	2,000 (b)	0	2	1	210	210

Table 6-20
SWMU S-15c Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Location: Screening Level	ASB0166R-5 9/2/2004	ASB0179-17 10/1/2009	ASB0179-6 10/1/2009
VOLATILES (µg/kg)				
2-Butanone/MEK	4.80E+07	5.8 U	**10**	7.8 U
Acetone	7.20E+07	5.8 U	**68**	**26**
Benzene	4.48E+00	1.2 U	**2.1 J**	1.6 U
Carbon Disulfide	8.00E+06	1.2 U	**2.1**	1.6 U
Chloromethane	NA	1.2 U	1.2 U	**1.9 M**
Methylene Chloride	2.18E+01	2.3 U	**2.4**	3.1 U
Trichloroethene	3.57E+00	1.2 U	**1.8 J**	**2**
PETROLEUM HYDROCARBONS (mg/kg)				
Diesel-Range Organics	2,000 (b)	---	**170**	**6.8**
Gasoline-Range Organics	100 (b,c)	---	**7.1**	6.5 U
Oil-Range Organics	2,000 (b)	---	**210**	10 U

Table 6-21
SWMU S-15c Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analytes	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
1,1,1-Trichloroethane	2.00E+02	0	54	2	0.2	0.2
Acetone	7.20E+03	0	54	7	82	1.5
Benzene	7.95E-01	0	54	2	0.6	0.2
Bromodichloromethane	7.06E-01	0	54	4	0.4	0.2
Chloroform	1.41E+00	1	54	7	1.8	0.2
Chloromethane	NA	NA	54	1	0.6	0.2
cis-1,2-Dichloroethene	1.60E+01	0	54	1	0.2	0.2
2-Butanone/MEK	4.80E+03	0	54	1	10	10
Methylene Chloride	5.00E+00	0	54	1	0.6	0.6
Tetrachloroethene	5.00E+00	0	54	52	2.2	0.087
Toluene	6.40E+02	0	54	1	0.3	0.3
Trichloroethene	5.40E-01	36	54	41	3.2	0.2
DISSOLVED METALS (mg/L)						
Aluminum	1.60E+01	0	24	2	0.09	0.04
Arsenic	8.00E-03	0	27	5	0.002	0.001
Barium	2.00E+00	0	27	26	0.016	0.004
Calcium	NA	NA	24	24	21.9	7.18
Chromium, Hexavalent	4.80E-02	0	27	4	0.03	0.02
Cobalt	NA	NA	24	3	0.004	0.003
Copper	6.40E-01	0	27	1	0.003	0.003
Cyanide	9.60E-03	1	9	1	0.018	0.018
Lead	1.50E-02	0	27	2	0.002	0.001
Magnesium	NA	NA	24	24	6.7	2.09
Manganese	2.24E+00	0	27	11	0.044	0.001
Potassium	NA	NA	24	24	2.9	1.6
Sodium	NA	NA	24	24	24.7	6.29
SEMI-VOLATILES (µg/L)						
bis(2-Ethylhexyl) Phthalate	6.00E+00	0	30	2	1.8	1.2
PETROLEUM HYDROCARBONS (mg/L)						
Oil-Range Organics	5.00E-01	1	29	1	0.98	0.98

Table 6-22
SWMU S-15c Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample Location:		AGW084				AGW085			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
1,1,1-Trichloroethane	2.00E+02	ND	--	0.2 U	12/6/2004	**0.2**	11/8/2000	0.5 U	12/8/2015
Acetone	7.20E+03	**2**	12/6/2004	**2**	12/6/2004	**1.8**	12/6/2004	5.0 U	12/8/2015
Benzene	7.95E-01	ND	--	0.2 U	12/6/2004	ND	--	0.2 U	12/8/2015
Bromodichloromethane	7.06E-01	**0.4**	5/22/2003	0.2 U	12/6/2004	**0.2**	5/22/2003	0.5 U	12/8/2015
Chloroform	1.41E+00	**0.9**	5/22/2003	0.2 U	12/6/2004	**0.4**	5/22/2003	0.2 U	12/8/2015
Chloromethane	NA	ND	--	0.2 U	12/6/2004	**0.2**	12/5/2005	0.5 U	12/8/2015
cis-1,2-Dichloroethene	1.60E+01	ND	--	0.2 U	12/6/2004	ND	--	0.2 U	12/8/2015
2-Butanone/MEK	4.80E+03	ND	--	1 U	12/6/2004	ND	--	5.0 U	12/8/2015
Methylene Chloride	5.00E+00	ND	--	0.3 U	12/6/2004	ND	--	0.5 U	12/8/2015
Tetrachloroethene	5.00E+00	**2.2**	5/21/2001	**1.3**	12/6/2004	**2**	5/21/2001	**0.16**	12/8/2015
Toluene	6.40E+02	ND	--	0.2 U	12/6/2004	ND	--	0.2 U	12/8/2015
Trichloroethene	5.40E-01	**1.4**	5/21/2001	**0.9**	12/6/2004	**2.7**	11/8/2000	0.2 U	12/8/2015
DISSOLVED METALS (mg/L)									
Aluminum	1.60E+01	**0.09**	11/29/2001	0.05 U	6/10/2004	ND	--	0.05 U	6/10/2004
Arsenic	8.00E-03	**0.001**	5/22/2003	0.001 U	12/6/2004	**0.002**	11/29/2001	0.001 U	12/6/2004
Barium	2.00E+00	**0.016**	5/15/2002	**0.008**	12/6/2004	**0.006**	12/6/2004	**0.006**	12/6/2004
Calcium	NA	**21.4**	08/25/99	20.7	6/10/2004	**21.5**	8/25/1999	**19**	6/10/2004
Chromium, Hexavalent	4.80E-02	**0.03**	11/29/2001	0.011 U	12/6/2004	**0.02**	8/25/1999	0.011 U	12/6/2004
Cobalt	NA	ND	--	.003 U	6/10/2004	**0.004**	11/8/2000	.003 U	6/10/2004
Copper	6.40E-01	ND	--	0.002 U	12/6/2004	ND	--	0.002 U	12/6/2004
Lead	1.50E-02	**0.001**	6/10/2004	0.001 U	12/6/2004	ND	--	0.001 U	12/6/2004
Magnesium	NA	**6.46**	11/8/2000	**6.08**	6/10/2004	**6.35**	5/21/2001	**5.3**	6/10/2004
Manganese	2.24E+00	**0.044**	8/25/1999	0.001 U	12/6/2004	**0.001**	8/25/1999	0.001 U	12/6/2004
Potassium	NA	**2.9**	6/10/2004	**2.9**	6/10/2004	**2.6**	5/21/2001	**2.1**	6/10/2004
Sodium	NA	**24.7**	5/15/2002	**8.4**	6/10/2004	**7.85**	8/25/1999	**6.6**	6/10/2004
CYANIDE (mg/L)									
Cyanide	9.60E-03	ND	--	0.005 U	3/9/2000	ND	--	0.005 U	3/9/2000
SEMI-VOLATILES (µg/L)									
bis(2-Ethylhexyl) Phthalate	6.00E+00	**1.8**	12/6/2004	**1.8**	12/6/2004	ND	--	1 U	12/6/2004
PETROLEUM HYDROCARBONS (mg/L)									
Oil-Range Organics	5.00E-01	ND	--	0.5 U	12/6/2004	ND	--	0.5 U	12/6/2004

Table 6-22
SWMU S-15c Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW086				ASB0166R-18	ASB0179-19
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	9/2/2004	10/1/2009
VOLATILES (µg/L)							
1,1,1-Trichloroethane	2.00E+02	ND	--	0.2 U	12/6/2004	**0.2**	0.2 U
Acetone	7.20E+03	**1.5**	12/6/2004	**1.5**	12/6/2004	**4.8**	**82**
Benzene	7.95E-01	ND	--	0.2 U	12/6/2004	**0.2**	**0.6**
Bromodichloromethane	7.06E-01	**0.3**	5/22/2003	0.2 U	12/6/2004	0.2 U	0.2 U
Chloroform	1.41E+00	**1.8**	4/19/1999	0.2 U	12/6/2004	0.2 U	0.2 U
Chloromethane	NA	ND	--	0.2 U	12/6/2004	0.2 U	**0.6 M**
cis-1,2-Dichloroethene	1.60E+01	ND	--	0.2 U	12/6/2004	0.2 U	**0.2**
2-Butanone/MEK	4.80E+03	ND	--	1 U	12/6/2004	1 U	**10**
Methylene Chloride	5.00E+00	ND	--	0.3 U	12/6/2004	0.3 U	**0.6**
Tetrachloroethene	5.00E+00	**2.1**	5/21/2001	**1.4**	12/6/2004	**0.3**	**0.2**
Toluene	6.40E+02	ND	--	0.2 U	12/6/2004	0.2 U	**0.3**
Trichloroethene	5.40E-01	**1.5**	11/29/2001	**1**	12/6/2004	**2**	**3.2**
DISSOLVED METALS (mg/L)							
Aluminum	1.60E+01	**0.04**	5/21/2001	0.05 U	6/10/2004	--	--
Arsenic	8.00E-03	**0.002**	11/29/2001	0.001 U	12/6/2004	--	--
Barium	2.00E+00	**0.007**	11/8/2000	**0.006**	12/6/2004	--	--
Calcium	NA	**21.9**	11/8/2000	**21.2**	6/10/2004	--	--
Chromium, Hexavalent	4.80E-02	**0.02**	8/25/1999	0.011 U	12/6/2004	--	--
Cobalt	NA	**0.004**	3/9/2000	.003 U	6/10/2004	--	--
Copper	6.40E-01	**0.003**	5/21/2001	0.002 U	12/6/2004	--	--
Lead	1.50E-02	**0.002**	6/10/2004	0.001 U	12/6/2004	--	--
Magnesium	NA	**6.7**	11/8/2000	**6.51**	6/10/2004	--	--
Manganese	2.24E+00	**0.015**	5/21/2001	0.001 U	12/6/2004	--	--
Potassium	NA	**2.8**	5/21/2001	**2.6**	6/10/2004	--	--
Sodium	NA	**8**	6/10/2004	**8**	6/10/2004	--	--
CYANIDE (mg/L)							
Cyanide	9.60E-03	**0.018**	3/9/2000	**0.018**	3/9/2000	--	--
SEMI-VOLATILES (µg/L)							
bis(2-Ethylhexyl) Phthalate	6.00E+00	**1.2**	4/19/1999	1 U	12/6/2004	--	--
PETROLEUM HYDROCARBONS (mg/L)							
Oil-Range Organics	5.00E-01	**0.98**	8/25/1999	0.5 U	12/6/2004	0.5 U	0.5 U

Table 6-23
SWMU S-17 Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analytes	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/kg)						
Acetone	7.20E+07	0	4	3	15	6.9
PETROLEUM HYDROCARBONS (mg/kg)						
Oil-Range Organics	2,000 (b)	0	2	1	12	12
EXTRACTABLE PETROLEUM HYDROCARBONS (mg/kg)						
Aromatic Hydrocarbons C16-C21	NA	NA	1	1	2400	2400

Table 6-24
SWMU S-17 Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	ASB0164R-5 9/2/2004	ASB0164R-20 9/2/2004	ASB0165R-5 9/2/2004	ASB0165R-22 9/2/2004
VOLATILES (µg/kg)					
Acetone	7.20E+07	**15 J**	**7.6**	8.7 U	**6.9**
PETROLEUM HYDROCARBONS (mg/kg)					
Oil-Range Organics	2,000 (b)	--	**12**	--	10 U
EXTRACTABLE PETROLEUM HYDROCARBONS (µg/kg)					
Aromatic Hydrocarbons C16-C21	NA	--	**2400 J**	--	--

Table 6-25
SWMU S-17 Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
1,1,1-Trichloroethane	2.00E+02	0	29	2	0.5	0.5
Acetone	7.20E+03	0	29	5	5.6	1.6
Benzene	7.95E-01	0	33	1	0.2	0.2
Bromodichloromethane	8.00E-02	1	29	1	0.3	0.3
2-Butanone/MEK	4.80E+03	0	29	1	1.5	1.5
Tetrachloroethene	5.00E+00	0	29	29	2.2	0.14
Trichloroethene	5.40E-01	11	29	19	1.5	0.3
DISSOLVED METALS (mg/L)						
Aluminum	1.60E+01	0	11	1	0.02	0.02
Arsenic	8.00E-03	0	15	2	0.001	0.001
Barium	2.00E+00	0	15	14	0.007	0.004
Calcium	NA	NA	11	11	22	17.9
Chromium, Hexavalent	4.80E-02	0	12	1	0.022	0.022
Lead	1.50E-02	0	15	1	0.001	0.001
Magnesium	NA	NA	11	11	6.54	5.16
Manganese	2.24E+00	0	12	1	0.001	0.001
Potassium	NA	NA	11	11	3	2.1
Sodium	NA	NA	11	11	8.3	6.96
Vanadium	8.00E-02	0	12	1	0.003	0.003
Zinc	4.80E+00	0	12	1	0.021	0.021
SEMI-VOLATILES (µg/L)						
bis(2-Ethylhexyl) Phthalate	6.00E+00	0	3	1	1.2	1.2
PETROLEUM HYDROCARBONS (mg/L)						
Diesel-Range Organics	5.00E-01	0	25	1	0.28	0.28

Table 6-26
SWMU S-17 Groundwater Results - Detects
Boeing Aunurn Remedial Investigation
Auburn, Washington

Sample Location:		AGW076				AGW077			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
1,1,1-Trichloroethane	2.00E+02	**0.5**	8/31/1998	1 U	3/8/2000	ND	--	0.2 U	12/12/2004
Acetone	7.20E+03	ND	--	5 U	3/8/2000	ND	--	1 U	12/12/2004
Benzene	7.95E-01	ND	--	1 U	3/8/2000	ND	--	0.2 U	12/12/2004
Bromodichloromethane	7.06E-01	ND	--	1 U	3/8/2000	ND	--	0.2 U	12/12/2004
2-Butanone/MEK	4.80E+03	ND	--	5 U	3/8/2000	ND	--	1 U	12/12/2004
Tetrachloroethene	5.00E+00	**1.5**	2/15/1999	**1.2**	3/8/2000	**1.6**	12/12/2004	**1.6**	12/12/2004
Trichloroethene	5.40E-01	**1.1**	8/31/1998	1 U	3/8/2000	**1**	12/12/2004	**1**	12/12/2004
DISSOLVED METALS (mg/L)									
Aluminum	1.60E+01	--	--	**--**	--	--	--	**--**	--
Arsenic	8.00E-03	ND		0.001 U	3/28/1997	**0.001**	3/28/1997	**0.001**	3/28/1997
Barium	2.00E+00	**0.007**	3/28/1997	**0.007**	3/28/1997	**0.006**	3/28/1997	**0.006**	3/28/1997
Calcium	NA	--	--	**--**	--	--	--	**--**	--
Chromium, Hexavalent	4.80E-02	--	--	**--**	--	--	--	**--**	--
Lead	1.50E-02	ND		0.001 U	3/28/1997	ND	--	0.001 U	3/28/1997
Magnesium	NA	--	--	**--**	--	--	--	**--**	--
Manganese	2.24E+00	--	--	**--**	--	--	--	**--**	--
Potassium	NA	--	--	**--**	--	--	--	**--**	--
Sodium	NA	--	--	**--**	--	--	--	**--**	--
Vanadium	8.00E-02	--	--	**--**	--	--	--	**--**	--
Zinc	4.80E+00	--	--	**--**	--	--	--	**--**	--
SEMI-VOLATILES (µg/L)									
bis(2-Ethylhexyl) Phthalate	6.00E+00	--	--	**--**	--	--	--	**--**	--
PETROLEUM HYDROCARBONS (mg/L)									
Diesel-Range Organics	5.00E-01	ND	--	0.25 U	3/8/2000	ND	--	0.25 U	12/12/2004

Table 6-26
SWMU S-17 Groundwater Results - Detects
Boeing Aunurn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW078				ASB0164R-20	ASB0165R-20
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	9/2/2004	9/2/2004
VOLATILES (µg/L)							
1,1,1-Trichloroethane	2.00E+02	ND	--	0.5 U	6/3/2015	0.2 U	0.2 U
Acetone	7.20E+03	**2.7**	12/6/2004	5.0 U	6/3/2015	**5.6**	**2.4**
Benzene	7.95E-01	ND	--	0.2 U	6/3/2015	**0.2**	0.2 U
Bromodichloromethane	7.06E-01	**0.3**	11/29/2001	0.5 U	6/3/2015	0.2 U	0.2 U
2-Butanone/MEK	4.80E+03	ND	--	5.0 U	6/3/2015	**1.5**	1 U
Tetrachloroethene	5.00E+00	**2.2**	5/21/2001	**0.22**	6/3/2015	**0.5**	**0.9**
Trichloroethene	5.40E-01	**1.5**	8/31/1998	0.2 U	6/3/2015	**1.2**	**0.5**
DISSOLVED METALS (mg/L)							
Aluminum	1.60E+01	**0.02**	3/24/1998	0.05 U	6/9/2004	--	--
Arsenic	8.00E-03	**0.001**	11/29/2001	0.001 U	12/6/2004	--	--
Barium	2.00E+00	**0.006**	3/28/1997	**0.004**	12/6/2004	--	--
Calcium	NA	**22**	11/6/2000	**21.4**	6/9/2004	--	--
Chromium, Hexavalent	4.80E-02	**0.022 J**	6/9/2004	0.011 U	12/6/2004	--	--
Lead	1.50E-02	**0.001**	6/9/2004	0.001 U	12/6/2004	--	--
Magnesium	NA	**6.54**	11/6/2000	**6**	6/9/2004	--	--
Manganese	2.24E+00	**0.001**	3/24/1998	0.001 U	12/6/2004	--	--
Potassium	NA	**3**	6/9/2004	**3**	6/9/2004	--	--
Sodium	NA	**8.3**	6/9/2004	**8.3**	6/9/2004	--	--
Vanadium	8.00E-02	**0.003**	2/15/1999	0.003 U	12/6/2004	--	--
Zinc	4.80E+00	**0.021**	8/31/1998	0.006 U	12/6/2004	--	--
SEMI-VOLATILES (µg/L)							
bis(2-Ethylhexyl) Phthalate	6.00E+00	**1.2**	5/15/2002	**1.2**	5/15/2002	--	--
PETROLEUM HYDROCARBONS (mg/L)							
Diesel-Range Organics	5.00E-01	**0.28**	5/15/2002	0.25 U	12/6/2004	0.25 U	0.25 U

Table 6-27
SWMU S-18 Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/kg)						
2-Butanone/MEK	4.80E+07	0	7	4	56	31
Acetone	7.20E+07	0	7	7	360	16
EXTRACTABLE PETROLEUM HYDROCARBONS (mg/kg)						
Aromatic Hydrocarbons C8-C10	NA	NA	1	1	9600	9600

Table 6-28
SWMU S-18 Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	ASB0144-6 5/4/2004	ASB0144-18 5/4/2004	ASB0145-6 5/4/2004	ASB0145-15 5/4/2004	ASB0147-6 5/5/2004	ASB0147-15 5/5/2004	ASB0148-6 5/5/2004
VOLATILES (µg/kg)								
2-Butanone/MEK	4.80E+07	**43 J**	5.5 UJ	**31 J**	5.9 UJ	**33 J**	5.8 UJ	**56 J**
Acetone	7.20E+07	**300 J**	**16 J**	**220 J**	**49 J**	**240 J**	**32 J**	**360 J**
EXTRACTABLE PETROLEUM HYDROCARBONS (µg/kg)								
Aromatic Hydrocarbons C8-C10	NA	--	--	--	--	--	**9600**	--

Table 6-29
SWMU S-18 Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
1,1-Dichloroethene	7.00E+00	0	34	4	0.13	0.025
Acetone	7.20E+03	0	34	4	8	2.6
Benzene	7.95E-01	3	34	15	5.4	0.3
Chloromethane	NA	NA	34	1	0.2	0.2
cis-1,2-Dichloroethene	1.60E+01	0	34	28	2.9	0.3
m-&p-Xylenes	1.60E+03	0	34	2	0.8	0.4
Toluene	6.40E+02	0	34	6	0.5	0.2
trans-1,2-Dichloroethene	1.00E+02	0	34	2	0.2	0.2
Trichloroethene	5.40E-01	1	34	11	0.7	0.2
Vinyl Chloride	2.90E-02	34	34	34	7.5	0.18

Table 6-30
SWMU S-18 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	AGW131 Max	AGW131 Date	AGW131 Most Recent	AGW131 Date	AGW152 Max	AGW152 Date	AGW152 Most Recent	AGW152 Date
VOLATILES (µg/L)									
1,1-Dichloroethene	7.00E+00	**0.13**	12/4/2008	0.2 U	12/3/2015	**0.025**	10/29/2009	0.2 U	12/3/2015
Acetone	7.20E+03	ND	--	5.0 U	12/3/2015	ND	--	5.0 U	12/3/2015
Benzene	7.95E-01	ND	--	0.2 U	12/3/2015	**0.8**	12/8/2009	0.2 U	12/3/2015
Chloromethane	NA	**0.2**	10/1/2008	0.5 U	12/3/2015	ND	--	0.5 U	12/3/2015
cis-1,2-Dichloroethene	1.60E+01	**2.9**	12/8/2009	**2.1**	12/3/2015	**1.4**	10/29/2009	**0.6**	12/3/2015
m-&p-Xylenes	1.60E+03	ND	--	0.5 U	12/3/2015	ND	--	0.5 U	12/3/2015
Toluene	6.40E+02	**0.5**	12/4/2008	0.2 U	12/3/2015	ND	--	0.2 U	12/3/2015
trans-1,2-Dichloroethene	1.00E+02	**0.2**	12/4/2008	0.2 U	12/3/2015	ND	--	0.2 U	12/3/2015
Trichloroethene	5.40E-01	**0.7**	10/1/2008	0.2 U	12/3/2015	ND	--	0.2 U	12/3/2015
Vinyl Chloride	2.90E-02	**7.5**	12/8/2009	**5.0**	12/3/2015	**6.8**	12/8/2009	**3.0**	12/3/2015

Table 6-30
SWMU S-18 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: Screening Level	ASB0144-17 5/4/2004	ASB0145-17 5/4/2004	ASB0147-15 5/5/2004	ASB0148-17 5/5/2004
VOLATILES (µg/L)					
1,1-Dichloroethene	7.00E+00	0.02 UJ	**0.044 J**	0.02 U	0.02 U
Acetone	7.20E+03	**3.1 J**	**2.6 J**	**8 J**	**4.2 J**
Benzene	7.95E-01	**0.4 J**	0.2 UJ	0.2 UJ	**5.4 J**
Chloromethane	NA	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
cis-1,2-Dichloroethene	1.60E+01	**0.5 J**	**0.8 J**	0.2 UJ	0.2 UJ
m-&p-Xylenes	1.60E+03	0.4 UJ	0.4 UJ	**0.8 J**	**0.4 J**
Toluene	6.40E+02	**0.2 J**	0.2 UJ	**0.3 J**	**0.4 J**
trans-1,2-Dichloroethene	1.00E+02	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
Trichloroethene	5.40E-01	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
Vinyl Chloride	2.90E-02	**3.7 J**	**5.5 J**	**0.18 J**	**4.7 J**

Table 6-31
SWMU S-30 Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
1,1-Dichloroethene	7.00E+00	0	27	1	0.03	0.03
Acetone	7.20E+03	0	27	1	9.4	9.4
Carbon Disulfide	8.00E+02	0	27	1	0.5	0.5
cis-1,2-Dichloroethene	1.60E+01	0	29	25	2.63	0.2
Tetrachloroethene	5.00E+00	0	27	1	0.049	0.049
Trichloroethene	5.40E-01	29	30	29	3.1	0.6
Vinyl Chloride	2.90E-02	3	27	12	0.15	0.02
DISSOLVED METALS (mg/L)						
Arsenic	8.00E-03	0	2	2	0.006	0.001
Manganese	2.24E+00	0	2	2	1.1	0.079
Zinc	4.80E+00	0	2	1	0.004	0.004

Table 6-32
SWMU S-30 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW026				AGW028			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
1,1-Dichloroethene	7.00E+00	**0.036**	12/8/2008	0.2 U	12/3/2015	ND	--	0.2 U	9/29/2010
Acetone	7.20E+03	**9.4**	12/8/2008	5.0 U	12/3/2015	ND	--	5 U	9/29/2010
Carbon Disulfide	8.00E+02	**0.5**	12/8/2008	0.5 U	12/3/2015	ND	--	0.2 U	9/29/2010
cis-1,2-Dichloroethene	1.60E+01	**2.63**	9/21/1994	**0.9**	12/3/2015	**1.1**	6/20/1996	**0.2**	9/29/2010
Tetrachloroethene	5.00E+00	ND	--	0.2 U	12/3/2015	**0.049**	9/29/2010	**0.049**	9/29/2010
Trichloroethene	5.40E-01	**2.29**	9/21/1994	**0.9**	12/3/2015	**3.1**	**6/20/1996**	**1.2**	9/29/2010
Vinyl Chloride	2.90E-02	**0.15**	12/3/2015	**0.15**	12/3/2015	ND	--	0.020 U	9/29/2010
DISSOLVED METALS (mg/L)									
Arsenic	8.00E-03	**0.006**	12/8/1995	**0.006**	12/8/1995	**0.001**	12/11/1995	**0.001**	12/11/1995
Manganese	2.24E+00	**1.1**	9/26/1996	**1.1**	9/26/1996	**0.079**	9/26/1996	**0.079**	9/26/1996
Zinc	4.80E+00	ND	--	0.004 U	9/26/1996	**0.004**	9/26/1996	**0.004**	9/26/1996

Table 6-33
AOC A-01 Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analytes	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/kg)						
1,1,1-Trichloroethane	1.58E+03	0	19	1	15	15
2-Butanone/MEK	4.80E+07	0	12	6	29	7.1
Acetone	7.20E+07	0	12	12	7300	2.8
Benzene	4.48E+00	0	12	4	2.5	0.9
Ethylbenzene	6.05E+03	1	13	6	9400	0.6
Methylene Chloride	2.18E+01	2	18	12	810	0.9
Toluene	4.65E+03	0	13	9	4200	0.7
Xylenes, Total	1.46E+04	1	15	11	64000	0.9
PETROLEUM HYDROCARBONS (mg/kg)						
Diesel-Range Organics	2,000 (b)	0	12	3	250	10
Gasoline-Range Organics	100 (b,c)	1	11	2	1300	12
Total Petroleum Hydrocarbons	NA	NA	33	20	2000	8

Table 6-34
AOC A-01 Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	AGW009-10.5 8/22/1990	AGW009-13.0 8/22/1990	AGW010-13.0 8/23/1990	AGW010-15.5 8/23/1990	AGW011-10.5 8/23/1990	AGW011-13.0 8/23/1990
VOLATILES (µg/kg)							
1,1,1-Trichloroethane	1.58E+03	--	--	--	--	--	**15**
2-Butanone/MEK	4.80E+07	--	--	--	--	--	--
Acetone	7.20E+07	--	--	--	--	--	--
Benzene	4.48E+00	--	--	--	--	--	--
Ethylbenzene	6.05E+03	--	--	--	**250**	--	--
Methylene Chloride	2.18E+01	--	--	--	--	--	--
Toluene	4.65E+03	--	--	--	**39**	--	--
Xylenes, Total	1.46E+04	--	--	--	**1200**	--	**34**
PETROLEUM HYDROCARBONS (mg/kg)							
Diesel-Range Organics	2,000 (b)	--	--	--	**240**	--	--
Gasoline-Range Organics	100 (b,c)	--	--	--	--	--	--
Total Petroleum Hydrocarbons	NA	**41**	**14**	**21**	**100**	**18**	**8**

Detected Analyte	Sample Location: / Screening Level	AGW012-6.5 8/23/1990	AGW012-13.0 8/23/1990	AGW013-3 7/31/1991	AGW013-5.5 7/31/1991	AGW013-8 7/31/1991	AGW013-10.5 7/31/1991
VOLATILES (µg/kg)							
1,1,1-Trichloroethane	1.58E+03	--	--	--	--	--	--
2-Butanone/MEK	4.80E+07	--	--	--	--	--	--
Acetone	7.20E+07	--	--	--	--	--	--
Benzene	4.48E+00	--	--	--	--	--	--
Ethylbenzene	6.05E+03	--	--	--	--	--	--
Methylene Chloride	2.18E+01	--	--	--	--	--	--
Toluene	4.65E+03	--	--	--	--	--	--
Xylenes, Total	1.46E+04	**48**	--	--	--	--	--
PETROLEUM HYDROCARBONS (mg/kg)							
Diesel-Range Organics	2,000 (b)	--	--	--	--	--	--
Gasoline-Range Organics	100 (b,c)	--	--	--	--	--	--
Total Petroleum Hydrocarbons	NA	**21**	**40**	10 U	**76**	**17**	10 U

Detected Analyte	Sample Location: / Screening Level	AGW013-13 7/31/1991	AGW013-15.5 7/31/1991	AGW013-18 7/31/1991	AGW013-20.5 7/31/1991	AGW014-3 7/31/1991	AGW014-5.5 7/31/1991
VOLATILES (µg/kg)							
1,1,1-Trichloroethane	1.58E+03	1.3 U	--	--	--	--	--
2-Butanone/MEK	4.80E+07	**29**	--	--	--	--	--
Acetone	7.20E+07	**43**	--	--	--	--	--
Benzene	4.48E+00	**1.4**	--	--	--	--	--
Ethylbenzene	6.05E+03	**1.6**	--	--	--	--	--
Methylene Chloride	2.18E+01	**3.2**	--	--	--	--	--
Toluene	4.65E+03	**11**	--	--	--	--	--
Xylenes, Total	1.46E+04	**9.8**	--	--	--	--	--
PETROLEUM HYDROCARBONS (mg/kg)							
Diesel-Range Organics	2,000 (b)	10 U	--	--	--	--	--
Gasoline-Range Organics	100 (b,c)	10 U	--	--	--	--	--
Total Petroleum Hydrocarbons	NA	10 U	10 U	10 U	10 U	**11**	**12**

Table 6-34
AOC A-01 Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	AGW014-8 7/31/1991	AGW014-13 7/31/1991	AGW014-15.5 7/31/1991	AGW014-18 7/31/1991	AGW014-20.5 7/31/1991	AGW015-9 8/2/1991
VOLATILES (µg/kg)							
1,1,1-Trichloroethane	1.58E+03	--	1.2 U	--	--	--	1.1 U
2-Butanone/MEK	4.80E+07	--	**15**	--	--	--	**9.6**
Acetone	7.20E+07	--	**4.7** J	--	--	--	**29**
Benzene	4.48E+00	--	1.2 U	--	--	--	**0.9** M
Ethylbenzene	6.05E+03	--	1.2 U	--	--	--	**0.6** J
Methylene Chloride	2.18E+01	--	**2.2** J	--	--	--	**0.9** J
Toluene	4.65E+03	--	**3.2**	--	--	--	**7.9**
Xylenes, Total	1.46E+04	--	**0.9** M	--	--	--	**3.8** M
PETROLEUM HYDROCARBONS (mg/kg)							
Diesel-Range Organics	2,000 (b)	--	10 U	--	--	--	10 U
Gasoline-Range Organics	100 (b,c)	--	10 U	--	--	--	10 U
Total Petroleum Hydrocarbons	NA	10 U	11 U	**11**	10 U	**11**	**290**

Detected Analyte	Sample Location: / Screening Level	AGW016-9.5 8/2/1991	AGW017-3 8/5/1991	AGW017-13 8/5/1991	B-1-3 7/30/1991	B-1-9 1/8/1996	B-1-11 1/8/1996
VOLATILES (µg/kg)							
1,1,1-Trichloroethane	1.58E+03	1.1 U	1.1 U	1.2 U	1.1 U	50 U	50 U
2-Butanone/MEK	4.80E+07	**21**	**23**	8.7 U	8.2 U	--	--
Acetone	7.20E+07	**63**	**86**	**7.3**	**2.8** J	--	--
Benzene	4.48E+00	**1.9**	1.1 U	1.2 U	1.1 U	--	--
Ethylbenzene	6.05E+03	**0.8** J	1.1 U	1.2 U	1.1 U	--	--
Methylene Chloride	2.18E+01	**1.9** J	**5.2**	**12**	**2.5**	50 U	50 U
Toluene	4.65E+03	**14**	1.1 U	1.2 U	**12**	--	--
Xylenes, Total	1.46E+04	**5.3**	2.2 U	1.2 U	**3.1**	--	--
PETROLEUM HYDROCARBONS (mg/kg)							
Diesel-Range Organics	2,000 (b)	10 U	10 U	**10**	10 U	--	--
Gasoline-Range Organics	100 (b,c)	10 U	10 U	10 U	10 U	--	--
Total Petroleum Hydrocarbons	NA	**47**	**18**	**12**	29 U	--	--

Detected Analyte	Sample Location: / Screening Level	B-2-10.5 7/30/1991	B-2-8 1/8/1996	B-2-10 1/8/1996	B-2-15 7/30/1991	B-3-5.5 7/30/1991	B-3-8 1/8/1996
VOLATILES (µg/kg)							
1,1,1-Trichloroethane	1.58E+03	1 U	50 U	50 U	1.1 U	1.1 U	50 U
2-Butanone/MEK	4.80E+07	7.8 U	--	--	**7.1** J	8 U	--
Acetone	7.20E+07	**7.1**	--	--	**5** J	**3.5** J	--
Benzene	4.48E+00	1 U	--	--	**2.5**	1.1 U	--
Ethylbenzene	6.05E+03	1 U	--	--	**0.7** J	1.1 U	--
Methylene Chloride	2.18E+01	**1.3** J	50 U	50 U	**1.6** J	**1.6** J	50 U
Toluene	4.65E+03	1 U	--	--	**0.7** J	**1.7**	--
Xylenes, Total	1.46E+04	2.1 U	--	--	2.2 U	**0.9** J	--
PETROLEUM HYDROCARBONS (mg/kg)							
Diesel-Range Organics	2,000 (b)	10 U	--	--		10 U	--
Gasoline-Range Organics	100 (b,c)	10 U	--	--		10 U	--
Total Petroleum Hydrocarbons	NA	13 U	--	--	19 U	37 U	--

Table 6-34
AOC A-01 Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: Screening Level	B-3-10 1/8/1996	B-4-13 8/1/1991	B-5-7 8/6/1991
VOLATILES (µg/kg)				
1,1,1-Trichloroethane	1.58E+03	50 U	630 U	11 U
2-Butanone/MEK	4.80E+07	--	4700 U	83 U
Acetone	7.20E+07	--	**7300**	**74**
Benzene	4.48E+00	--	630 U	11 U
Ethylbenzene	6.05E+03	--	**9400**	11 U
Methylene Chloride	2.18E+01	50 U	**810** J	**130** J
Toluene	4.65E+03	--	**4200**	11 U
Xylenes, Total	1.46E+04	--	**64000**	**180** M
PETROLEUM HYDROCARBONS (mg/kg)				
Diesel-Range Organics	2,000 (b)	--	**250**	10 U
Gasoline-Range Organics	100 (b,c)	--	**1300**	**12**
Total Petroleum Hydrocarbons	NA	--	**2000**	**21**

Table 6-35
AOC A-01 Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
1,1,2,2-Tetrachloroethane	2.19E-01	1	98	1	1.5	1.5
1,1,2-Trichloroethane	7.68E-01	2	98	2	1.6	1.1
1,2-Dichloroethane	4.81E-01	2	99	2	3.3	1.6
2-Hexanone	NA	NA	98	1	5.3	5.3
4-Methyl-2-pentanone	6.40E+02	0	99	2	5.9	3.11
Acetone	7.20E+03	0	98	10	45	4.8
Benzene	7.95E-01	62	149	64	5250	0.2
cis-1,2-Dichloroethene	1.60E+01	0	112	36	7.41	0.3
Ethylbenzene	7.00E+02	32	148	62	3600	1.1
m-&p-Xylenes	1.60E+03	23	136	46	11000	1.4
2-Butanone/MEK	4.80E+03	0	98	2	10	5.7
Methylene Chloride	5.00E+00	0	100	2	2.93	2.31
o-Xylene	1.60E+03	19	136	37	4300	1.3
Styrene	1.00E+02	0	98	2	12	2.3
Tetrachloroethene	5.00E+00	0	98	15	0.3	0.027
Toluene	6.40E+02	16	141	43	15000	0.3
Trichloroethene	5.40E-01	37	110	41	9.25	0.2
Vinyl Acetate	8.00E+03	0	98	2	17	8.2
Vinyl Chloride	2.90E-02	1	98	1	0.085	0.085
Xylenes, Total	1.60E+03	4	12	11	13199	10.53
DISSOLVED METALS (mg/L)						
Arsenic	8.00E-03	0	11	4	0.008	0.001
Lead	1.50E-02	0	11	2	0.014	0.006
Zinc	4.80E+00	0	2	2	0.017	0.006
PETROLEUM HYDROCARBONS (mg/L)						
Diesel-Range Organics	5.00E-01	34	84	38	18.7	0.21
Gasoline-Range Organics	8.00E-01	39	84	40	120	0.67
Oil-Range Organics	5.00E-01	7	88	17	276	0.1

Table 6-36
AOC A-01 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample Location:		AGW009				AGW010			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
1,1,2,2-Tetrachloroethane	2.19E-01	**1.5**	10/1/1996	0.2 U	6/2/2015	ND	--	2.0 U	12/3/2015
1,1,2-Trichloroethane	7.68E-01	ND	--	0.2 U	6/2/2015	**1.1**	3/23/1998	2.0 U	12/3/2015
1,2-Dichloroethane	4.81E-01	ND	--	0.2 U	6/2/2015	**3.3**	3/24/1995	2.0 U	12/3/2015
2-Hexanone	NA	ND	--	5.0 U	6/2/2015	**5.3 J**	6/18/1996	50 U	12/3/2015
4-Methyl-2-pentanone	6.40E+02	ND	--	5.0 U	6/2/2015	**5.9**	6/18/1996	50 U	12/3/2015
Acetone	7.20E+03	ND	--	5.0 U	6/2/2015	**45**	3/23/1998	50 U	12/3/2015
Benzene	7.95E-01	ND	--	0.2 U	6/2/2015	**5250**	3/24/1995	2.0 U	12/3/2015
cis-1,2-Dichloroethene	1.60E+01	ND	--	0.2 U	6/2/2015	**5.35**	2/15/1994	2.0 U	12/3/2015
Ethylbenzene	7.00E+02	ND	--	0.5 U	6/2/2015	**3600**	12/5/2004	**1200**	12/3/2015
m-&p-Xylenes	1.60E+03	**2.1**	12/5/2004	0.5 U	6/2/2015	**11000**	8/26/1999	**2600**	12/3/2015
Methylene Chloride	5.00E+00	ND	--	0.5 U	6/2/2015	ND	--	5.0 U	12/3/2015
2-Butanone/MEK	4.80E+03	ND	--	5.0 U	6/2/2015	**10**	6/18/1996	50 U	12/3/2015
o-Xylene	1.60E+03	ND	--	0.5 U	6/2/2015	**4300**	8/26/1999	**560**	12/3/2015
Styrene	1.00E+02	ND	--	0.5 U	6/2/2015	**12**	3/20/1997	5.0 U	12/3/2015
Tetrachloroethene	5.00E+00	**0.3**	12/4/2008	**0.14**	6/2/2015	**0.15 J**	12/5/2011	**0.12**	12/3/2015
Toluene	6.40E+02	ND	--	0.2 U	6/2/2015	**15000**	9/12/1997	**15**	12/3/2015
Trichloroethene	5.40E-01	**8.07**	2/16/1994	0.2 U	6/2/2015	**7.01**	2/15/1994	2.0 U	12/3/2015
Vinyl Acetate	8.00E+03	ND	--	0.5 U	6/2/2015	ND	--	5.0 U	12/3/2015
Vinyl Chloride	2.90E-02	ND	--	0.020 U	6/2/2015	**0.085**	6/12/2012	0.020 U	12/3/2015
Xylenes, Total	1.60E+03	--	--	--	--	**13199**	3/24/1995	**540**	6/7/2006
DISSOLVED METALS (mg/L)									
Arsenic	8.00E-03	ND	--	0.001 U	12/14/1995	**0.006**	9/12/1997	**0.006**	9/12/1997
Lead	1.50E-02	ND	--	0.001 U	12/14/1995	**0.014**	12/14/1995	**0.006**	9/12/1997
Zinc	4.80E+00	--	--	--	--	**0.006**	9/12/1997	**0.006**	9/12/1997
PETROLEUM HYDROCARBONS (mg/L)									
Diesel-Range Organics	5.00E-01	ND	--	0.1 U	12/1/2010	**18.7**	3/24/1995	**0.97**	12/3/2015
Gasoline-Range Organics	8.00E-01	ND	--	0.25 U	12/1/2010	**120 J**	8/26/1999	**34**	12/3/2015
Oil-Range Organics	5.00E-01	0.2	2/16/1994	0.2 U	12/1/2010	**276**	3/24/1995	0.24 U	12/3/2015

Table 6-36
AOC A-01 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW011				AGW012			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
1,1,2,2-Tetrachloroethane	2.19E-01	ND	--	1 U	3/20/1997	ND	--	1 U	3/20/1997
1,1,2-Trichloroethane	7.68E-01	ND	--	1 U	3/20/1997	ND	--	1 U	3/20/1997
1,2-Dichloroethane	4.81E-01	ND	--	1 U	3/20/1997	ND	--	1 U	3/20/1997
2-Hexanone	NA	ND	--	5 U	3/20/1997	ND	--	5 U	3/20/1997
4-Methyl-2-pentanone	6.40E+02	ND	--	5 U	3/20/1997	ND	--	5 U	3/20/1997
Acetone	7.20E+03	**5.8**	10/1/1996	5 U	3/20/1997	ND	--	5 U	3/20/1997
Benzene	7.95E-01	**688**	2/14/1994	**1.2**	12/5/2004	ND	--	1 U	12/5/2004
cis-1,2-Dichloroethene	1.60E+01	**7.41**	2/14/1994	1 U	3/20/1997	**6.32**	2/14/1994	1 U	3/20/1997
Ethylbenzene	7.00E+02	**285**	3/24/1995	1 U	12/5/2004	ND	--	1 U	12/5/2004
m-&p-Xylenes	1.60E+03	**40**	12/19/1996	**1.6**	12/5/2004	**1.4**	3/26/1996	1 U	12/5/2004
Methylene Chloride	5.00E+00	**2.31**	3/24/1994	2 U	3/20/1997	ND	--	2 U	3/20/1997
2-Butanone/MEK	4.80E+03	ND	--	5 U	3/20/1997	ND	--	5 U	3/20/1997
o-Xylene	1.60E+03	**1.3**	12/14/1995	1 U	12/5/2004	ND	--	1 U	12/5/2004
Styrene	1.00E+02	ND	--	1 U	3/20/1997	ND	--	1 U	3/20/1997
Tetrachloroethene	5.00E+00	ND	--	1 U	3/20/1997	ND	--	1 U	3/20/1997
Toluene	6.40E+02	**5.34**	3/24/1995	1 U	12/5/2004	**1.3**	3/26/1996	1 U	12/5/2004
Trichloroethene	5.40E-01	ND	--	1 U	3/20/1997	**2.48**	2/14/1994	**1**	3/20/1997
Vinyl Acetate	8.00E+03	**17 J**	12/14/1995	5 U	3/20/1997	ND	--	5 U	3/20/1997
Vinyl Chloride	2.90E-02	ND	--	2 U	3/20/1997	ND	--	2 U	3/20/1997
Xylenes, Total	1.60E+03	**18.61**	3/24/1994	**15.98**	3/24/1995	**--**	--	**--**	--
DISSOLVED METALS (mg/L)									
Arsenic	8.00E-03	ND	--	0.001 U	12/14/1995	ND	--	0.001 U	12/13/1995
Lead	1.50E-02	ND	--	0.001 U	12/14/1995	ND	--	0.002 U	12/13/1995
Zinc	4.80E+00	**--**	--	**--**	--	**--**	--	**--**	--
PETROLEUM HYDROCARBONS (mg/L)									
Diesel-Range Organics	5.00E-01	**0.68**	2/14/1994	0.25 U	12/5/2004	**0.37**	2/14/1994	0.25 U	12/5/2004
Gasoline-Range Organics	8.00E-01	**2.45**	3/24/1995	0.25 U	12/5/2004	ND	--	0.25 U	12/5/2004
Oil-Range Organics	5.00E-01	**0.6**	2/14/1994	0.5 U	12/5/2004	**0.1**	2/14/1994	0.5 U	12/5/2004

Table 6-36
AOC A-01 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW013				AGW014			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
1,1,2,2-Tetrachloroethane	2.19E-01	ND	--	1 U	3/21/1997	ND	--	0.2 U	2/20/2004
1,1,2-Trichloroethane	7.68E-01	ND	--	1 U	3/21/1997	ND	--	0.2 U	2/20/2004
1,2-Dichloroethane	4.81E-01	ND	--	1 U	3/21/1997	ND	--	0.2 U	2/20/2004
2-Hexanone	NA	ND	--	5 U	3/21/1997	ND	--	1 U	2/20/2004
4-Methyl-2-pentanone	6.40E+02	ND	--	5 U	3/21/1997	ND	--	1 U	2/20/2004
Acetone	7.20E+03	ND	--	5 U	3/21/1997	ND	--	1 U	2/20/2004
Benzene	7.95E-01	ND	--	1 U	12/5/2004	ND	--	1 U	12/5/2004
cis-1,2-Dichloroethene	1.60E+01	ND	--	1 U	3/21/1997	**5.73**	2/14/1994	0.2 U	2/20/2004
Ethylbenzene	7.00E+02	ND	--	1 U	12/5/2004	ND	--	1 U	12/5/2004
m-&p-Xylenes	1.60E+03	ND	--	1 U	12/5/2004	ND	--	1 U	12/5/2004
Methylene Chloride	5.00E+00	ND	--	2 U	3/21/1997	ND	--	0.3 U	2/20/2004
2-Butanone/MEK	4.80E+03	ND	--	5 U	3/21/1997	ND	--	1 U	2/20/2004
o-Xylene	1.60E+03	ND	--	1 U	12/5/2004	ND	--	1 U	12/5/2004
Styrene	1.00E+02	ND	--	1 U	3/21/1997	ND	--	0.2 U	2/20/2004
Tetrachloroethene	5.00E+00	ND	--	1 U	3/21/1997	ND	--	0.2 U	2/20/2004
Toluene	6.40E+02	ND	--	1 U	12/5/2004	ND	--	1 U	12/5/2004
Trichloroethene	5.40E-01	**1.33**	2/16/1994	1 U	3/21/1997	**2.86**	2/14/1994	0.2 U	2/20/2004
Vinyl Acetate	8.00E+03	ND	--	5 U	3/21/1997	ND	--	0.2 U	2/20/2004
Vinyl Chloride	2.90E-02	ND	--	2 U	3/21/1997	ND	--	0.2 U	2/20/2004
Xylenes, Total	1.60E+03	--	--	--	--	--	--	--	--
DISSOLVED METALS (mg/L)									
Arsenic	8.00E-03	**0.001**	12/13/1995	**0.001**	12/13/1995	ND	--	0.001 U	12/13/1995
Lead	1.50E-02	ND	--	0.001 U	12/13/1995	ND	--	0.001 U	12/13/1995
Zinc	4.80E+00	--	--	--	--	--	--	--	--
PETROLEUM HYDROCARBONS (mg/L)									
Diesel-Range Organics	5.00E-01	ND	--	0.25 U	12/5/2004	ND	--	0.25 U	12/5/2004
Gasoline-Range Organics	8.00E-01	ND	--	0.25 U	12/5/2004	ND	--	0.25 U	12/5/2004
Oil-Range Organics	5.00E-01	**0.1**	2/16/1994	0.5 U	12/5/2004	**0.2**	2/14/1994	0.5 U	12/5/2004

Table 6-36
AOC A-01 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample Location:		AGW015				AGW016			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
1,1,2,2-Tetrachloroethane	2.19E-01	ND	--	0.2 U	6/9/2009	ND	--	1 U	3/13/2000
1,1,2-Trichloroethane	7.68E-01	**1.6**	6/3/2008	0.2 U	6/9/2009	ND	--	1 U	3/13/2000
1,2-Dichloroethane	4.81E-01	ND	--	0.2 U	6/9/2009	ND	--	1 U	3/13/2000
2-Hexanone	NA	ND	--	5 U	6/9/2009	ND	--	5 U	3/13/2000
4-Methyl-2-pentanone	6.40E+02	ND	--	5 U	6/9/2009	ND	--	5 U	3/13/2000
Acetone	7.20E+03	**15**	3/26/1996	5 U	6/9/2009	**6.6**	9/4/1998	5 U	3/13/2000
Benzene	7.95E-01	**1.6**	10/1/1996	0.2 U	6/9/2009	**24.98**	2/15/1994	1 U	12/5/2004
cis-1,2-Dichloroethene	1.60E+01	**3.31**	2/15/1994	0.2 U	6/9/2009	**2.13**	2/15/1994	1 U	3/13/2000
Ethylbenzene	7.00E+02	**7.6**	12/5/2006	0.2 U	6/9/2009	**49.54**	2/15/1994	1 U	12/5/2004
m-&p-Xylenes	1.60E+03	**19**	12/5/2006	0.4 U	6/9/2009	**2**	12/19/1996	1 U	12/5/2004
Methylene Chloride	5.00E+00	ND	--	0.5 U	6/9/2009	**2.93**	3/24/1994	2 U	3/13/2000
2-Butanone/MEK	4.80E+03	ND	--	5 U	6/9/2009	ND	--	5 U	3/13/2000
o-Xylene	1.60E+03	**4.4**	12/5/2006	0.2 U	6/9/2009	ND	--	1 U	12/5/2004
Styrene	1.00E+02	ND	--	0.2 U	6/9/2009	ND	--	1 U	3/13/2000
Tetrachloroethene	5.00E+00	ND	--	0.2 U	6/9/2009	ND	--	1 U	3/13/2000
Toluene	6.40E+02	**1.6**	3/20/1997	0.2 U	6/9/2009	**0.3**	9/4/1998	1 U	12/5/2004
Trichloroethene	5.40E-01	**1.5**	3/24/1995	0.2 U	6/9/2009	ND	--	1 U	3/13/2000
Vinyl Acetate	8.00E+03	**8.2 J**	12/13/1995	1 U	6/9/2009	ND	--	5 U	3/13/2000
Vinyl Chloride	2.90E-02	ND	--	0.020 U	6/9/2009	ND	--	1 U	3/13/2000
Xylenes, Total	1.60E+03	ND	--	2 U	6/7/2006	**51.47**	2/15/1994	**10.53**	9/15/1994
DISSOLVED METALS (mg/L)									
Arsenic	8.00E-03	**0.008**	12/13/1995	**0.008**	12/13/1995	**0.002**	9/12/1997	**0.002**	9/12/1997
Lead	1.50E-02	ND	--	0.001 U	12/13/1995	ND	--	0.001 U	9/12/1997
Zinc	4.80E+00	**--**	--	**--**	--	**0.017**	9/12/1997	**0.017**	9/12/1997
PETROLEUM HYDROCARBONS (mg/L)									
Diesel-Range Organics	5.00E-01	**0.59**	12/5/2004	0.25 U	12/8/2009	**0.59**	2/15/1994	0.25 U	12/5/2004
Gasoline-Range Organics	8.00E-01	ND	--	0.25 U	12/8/2009	**2.07**	2/15/1994	0.25 U	12/5/2004
Oil-Range Organics	5.00E-01	**0.2**	2/15/1994	0.5 U	12/8/2009	**0.4**	2/15/1994	0.5 U	12/5/2004

Table 6-36
AOC A-01 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW017			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date
VOLATILES (µg/L)					
1,1,2,2-Tetrachloroethane	2.19E-01	ND	--	0.2 U	6/9/2009
1,1,2-Trichloroethane	7.68E-01	ND	--	0.2 U	6/9/2009
1,2-Dichloroethane	4.81E-01	ND	--	0.2 U	6/9/2009
2-Hexanone	NA	ND	--	5 U	6/9/2009
4-Methyl-2-pentanone	6.40E+02	ND	--	5 U	6/9/2009
Acetone	7.20E+03	**5.6**	12/13/1995	5 U	6/9/2009
Benzene	7.95E-01	ND	--	0.2 U	6/9/2009
cis-1,2-Dichloroethene	1.60E+01	**1.1**	3/26/1996	**0.4**	6/9/2009
Ethylbenzene	7.00E+02	ND	--	0.2 U	6/9/2009
m-&p-Xylenes	1.60E+03	ND	--	0.4 U	6/9/2009
Methylene Chloride	5.00E+00	ND	--	0.5 U	6/9/2009
2-Butanone/MEK	4.80E+03	ND	--	5 U	6/9/2009
o-Xylene	1.60E+03	ND	--	0.2 U	6/9/2009
Styrene	1.00E+02	ND	--	0.2 U	6/9/2009
Tetrachloroethene	5.00E+00	ND	--	0.2 U	6/9/2009
Toluene	6.40E+02	ND	--	0.2 U	6/9/2009
Trichloroethene	5.40E-01	**9.25**	2/15/1994	**1.3**	6/9/2009
Vinyl Acetate	8.00E+03	ND	--	1 U	6/9/2009
Vinyl Chloride	2.90E-02	ND	--	0.020 U	6/9/2009
Xylenes, Total	1.60E+03	**--**	--	**--**	--
DISSOLVED METALS (mg/L)					
Arsenic	8.00E-03	ND	--	0.001 U	12/13/1995
Lead	1.50E-02	ND	--	0.001 U	12/13/1995
Zinc	4.80E+00	**--**	--	**--**	--
PETROLEUM HYDROCARBONS (mg/L)					
Diesel-Range Organics	5.00E-01	ND	--	0.25 U	12/5/2004
Gasoline-Range Organics	8.00E-01	ND	--	0.25 U	12/5/2004
Oil-Range Organics	5.00E-01	ND	--	0.5 U	12/5/2004

Table 6-37
AOC A-02b Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
Acetone	7.20E+03	0	44	2	2.8	2.4
Chloromethane	NA	NA	44	1	0.2	0.2
Ethylbenzene	7.00E+02	0	44	1	0.3	0.3
m-&p-Xylenes	1.60E+03	0	44	1	0.8	0.8
Tetrachloroethene	5.00E+00	0	58	57	1.6	0.27
Toluene	6.40E+02	0	44	1	0.2	0.2
Trichloroethene	5.40E-01	22	44	42	2.3	0.3
Trichlorofluoromethane	2.40E+03	0	44	1	0.2	0.2
Vinyl Chloride	2.90E-02	1	79	1	0.041	0.041

Table 6-38
AOC A-02b Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample Location:		AGW041				AGW117			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
Acetone	7.20E+03	**2.4**	12/7/2005	5.0 U	6/3/2015	**2.8**	11/23/2004	5.0 U	12/9/2015
Chloromethane	NA	**0.2**	12/13/2007	0.5 U	6/3/2015	ND	--	0.5 U	12/9/2015
Ethylbenzene	7.00E+02	**0.3**	12/8/2006	0.5 U	6/3/2015	ND	--	0.5 U	12/9/2015
m-&p-Xylenes	1.60E+03	**0.8**	12/8/2006	0.5 U	6/3/2015	ND	--	0.5 U	12/9/2015
Tetrachloroethene	5.00E+00	**1.6 J**	9/27/1996	**0.3**	6/3/2015	**1.1**	12/8/2006	**0.5**	12/9/2015
Toluene	6.40E+02	**0.2**	8/11/2005	0.2 U	6/3/2015	ND	--	0.2 U	12/9/2015
Trichloroethene	5.40E-01	**2.3 J**	9/27/1996	**0.4**	6/3/2015	**1**	6/10/2014	**0.3**	12/9/2015
Trichlorofluoromethane	2.40E+03	ND	--	0.5 U	6/3/2015	**0.2**	12/7/2005	0.5 U	12/9/2015
Vinyl Chloride	2.90E-02	ND	--	0.020 U	6/3/2015	**0.041 J**	6/6/2007	0.2 U	12/9/2015

Table 6-39
AOC A-02c Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
SEMI-VOLATILES (µg/kg)						
bis(2-Ethylhexyl) Phthalate	1.34E+04	0	2	1	60	60
Diethyl Phthalate	6.40E+07	0	2	1	82	82
EXTRACTABLE PETROLEUM HYDROCARBONS (mg/kg)						
Aliphatic Hydrocarbons C21-C34	NA	NA	1	1	5500	5500

Table 6-40
AOC A-02c Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	ASB0149-15 5/5/2004	ASB0149-21 5/5/2004	ASB0178-13 8/4/2008	ASB0178-16 8/4/2008
SEMI-VOLATILES (µg/kg)					
bis(2-Ethylhexyl) Phthalate	1.34E+04	--	--	**60**	61 U
Diethyl Phthalate	6.40E+07	--	--	59 U	**82**
EXTRACTABLE PETROLEUM HYDROCARBONS (µg/kg)					
Aliphatic Hydrocarbons C21-C34	NA	**5500**	--	--	--

Table 6-41
AOC A-02c Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
Acetone	7.20E+03	0	10	2	4.3	2.1
Tetrachloroethene	5.00E+00	0	10	9	1.2	0.092
Trichloroethene	5.40E-01	1	10	1	0.6	0.6
SEMI-VOLATILES (µg/L)						
bis(2-Ethylhexyl) Phthalate	6.00E+00	0	2	1	1.1	1.1
DISSOLVED METALS (mg/L)						
Barium	2.00E+00	0	2	2	0.006	0.004
Calcium	NA	NA	1	1	20.9	20.9
Chromium, Hexavalent	4.80E-02	0	2	1	0.045	0.045
Lead	1.50E-02	0	2	1	0.001	0.001
Magnesium	NA	NA	1	1	6.62	6.62
Manganese	2.24E+00	0	2	2	0.016	0.001
Potassium	NA	NA	1	1	2.7	2.7
Sodium	NA	NA	1	1	8	8

Table 6-42
AOC A-02c Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW104			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date
VOLATILES (µg/L)					
Acetone	7.20E+03	**4.3**	6/9/2004	5.0 U	6/3/2015
Tetrachloroethene	5.00E+00	**1.2**	12/6/2004	**0.13**	6/3/2015
Trichloroethene	5.40E-01	**0.6**	12/6/2004	0.2 U	6/3/2015
SEMI-VOLATILES (µg/L)					
bis(2-Ethylhexyl) Phthalate	6.00E+00	**1.1**	6/9/2004	1 U	12/6/2004
DISSOLVED METALS (mg/L)					
Barium	2.00E+00	**0.006**	6/9/2004	**0.004**	12/6/2004
Calcium	NA	**20.9**	6/9/2004	**20.9**	6/9/2004
Chromium, Hexavalent	4.80E-02	**0.045 J**	6/9/2004	0.011 U	12/6/2004
Lead	1.50E-02	**0.001**	6/9/2004	0.001 U	12/6/2004
Magnesium	NA	**6.62**	6/9/2004	**6.62**	6/9/2004
Manganese	2.24E+00	**0.016**	6/9/2004	**0.001**	12/6/2004
Potassium	NA	**2.7**	6/9/2004	**2.7**	6/9/2004
Sodium	NA	**8**	6/9/2004	**8**	6/9/2004

Table 6-43
AOC A-03 Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/kg)						
2-Butanone/MEK	4.80E+07	0	3	3	32	7.1
Acetone	7.20E+07	0	3	3	190	58

Table 6-44
AOC A-03 Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	ASB0143-12 5/4/2004	ASB0143-15 5/4/2004	ASB0146-12 5/5/2004
VOLATILES (µg/kg)				
2-Butanone/MEK	4.80E+07	**29 J**	**7.1 J**	**32 J**
Acetone	7.20E+07	**170 J**	**58 J**	**190 J**

Table 6-45
AOC A-03 Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
Acetone	7.20E+03	0	2	2	5.8	2.7
Vinyl Chloride	2.90E-02	1	2	1	0.75	0.75
SEMI-VOLATILES (µg/L)						
1-Methylnaphthalene	1.51E+00	0	2	1	0.5	0.5
2-Methylnaphthalene	3.20E+01	0	2	1	0.59	0.59

Table 6-46
AOC A-03 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	ASB0143-17 5/4/2004	ASB0146-10 5/5/2004
VOLATILES (µg/L)			
Acetone	7.20E+03	**2.7 J**	**5.8 J**
Vinyl Chloride	2.90E-02	**0.75 J**	0.020 U
SEMI-VOLATILES (µg/L)			
1-Methylnaphthalene	1.51E+00	**0.5**	0.1 U
2-Methylnaphthalene	3.20E+01	**0.59**	0.1 U

Table 6-47
AOC A-04 Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
1,1,1-Trichloroethane	2.00E+02	0	27	2	0.5	0.5
Acetone	7.20E+03	0	27	3	2.7	1.6
Bromodichloromethane	7.06E-01	0	27	1	0.3	0.3
Tetrachloroethene	5.00E+00	0	27	27	2.2	0.14
Trichloroethene	5.40E-01	10	27	17	1.5	0.3
SEMI-VOLATILES (µg/L)						
bis(2-Ethylhexyl) Phthalate	6.00E+00	0	3	1	1.2	1.2
DISSOLVED METALS (mg/L)						
Aluminum	1.60E+01	0	11	1	0.02	0.02
Arsenic	8.00E-03	0	15	2	0.001	0.001
Barium	2.00E+00	0	15	14	0.007	0.004
Calcium	NA	NA	11	11	22	17.9
Chromium, Hexavalent	4.80E-02	0	12	1	0.022	0.022
Lead	1.50E-02	0	15	1	0.001	0.001
Magnesium	NA	NA	11	11	6.54	5.16
Manganese	2.24E+00	0	12	1	0.001	0.001
Potassium	NA	NA	11	11	3	2.1
Sodium	NA	NA	11	11	8.3	6.96
Vanadium	8.00E-02	0	12	1	0.003	0.003
Zinc	4.80E+00	0	12	1	0.021	0.021
PETROLEUM HYDROCARBONS (mg/L)						
Diesel-Range Organics	5.00E-01	0	23	1	0.28	0.28

Table 6-48
AOC A-04 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample Location:		AGW076				AGW077			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
1,1,1-Trichloroethane	2.00E+02	**0.5**	8/31/1998	1 U	3/8/2000	ND	--	0.2 U	12/12/2004
Acetone	7.20E+03	ND	--	5 U	3/8/2000	ND	--	1 U	12/12/2004
Bromodichloromethane	7.06E-01	ND	--	1 U	3/8/2000	ND	--	0.2 U	12/12/2004
Tetrachloroethene	5.00E+00	**1.5**	2/15/1999	**1.2**	3/8/2000	**1.6**	12/12/2004	**1.6**	12/12/2004
Trichloroethene	5.40E-01	**1.1**	8/31/1998	1 U	3/8/2000	**1**	12/12/2004	**1**	12/12/2004
SEMI-VOLATILES (µg/L)									
bis(2-Ethylhexyl) Phthalate	6.00E+00	--	--	--	--	--	--	--	--
DISSOLVED METALS (mg/L)									
Aluminum	1.60E+01	--	--	--	--	--	--	--	--
Arsenic	8.00E-03	ND	--	0.001 U	3/28/1997	**0.001**	3/28/1997	**0.001**	3/28/1997
Barium	2.00E+00	**0.007**	3/28/1997	**0.007**	3/28/1997	**0.006**	3/28/1997	**0.006**	3/28/1997
Calcium	NA	--	--	--	--	--	--	--	--
Chromium, Hexavalent	4.80E-02	--	--	--	--	--	--	--	--
Lead	1.50E-02	ND	--	0.001 U	3/28/1997	ND	--	0.001 U	3/28/1997
Magnesium	NA	--	--	--	--	--	--	--	--
Manganese	2.24E+00	--	--	--	--	--	--	--	--
Potassium	NA	--	--	--	--	--	--	--	--
Sodium	NA	--	--	--	--	--	--	--	--
Vanadium	8.00E-02	--	--	--	--	--	--	--	--
Zinc	4.80E+00	--	--	--	--	--	--	--	--
PETROLEUM HYDROCARBONS (mg/L)									
Diesel-Range Organics	5.00E-01	ND	--	0.25 U	3/8/2000	ND	--	0.25 U	12/12/2004

Table 6-48
AOC A-04 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW078			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date
VOLATILES (µg/L)					
1,1,1-Trichloroethane	2.00E+02	ND	--	0.5 U	6/3/2015
Acetone	7.20E+03	**2.7**	12/6/2004	5.0 U	6/3/2015
Bromodichloromethane	7.06E-01	**0.3**	11/29/2001	0.5 U	6/3/2015
Tetrachloroethene	5.00E+00	**2.2**	5/21/2001	**0.22**	6/3/2015
Trichloroethene	5.40E-01	**1.5**	8/31/1998	0.2 U	6/3/2015
SEMI-VOLATILES (µg/L)					
bis(2-Ethylhexyl) Phthalate	6.00E+00	**1.2**	5/15/2002	**1.2**	5/15/2002
DISSOLVED METALS (mg/L)					
Aluminum	1.60E+01	**0.02**	3/24/1998	0.05 U	6/9/2004
Arsenic	8.00E-03	**0.001**	11/29/2001	0.001 U	12/6/2004
Barium	2.00E+00	**0.006**	3/28/1997	**0.004**	12/6/2004
Calcium	NA	**22**	11/6/2000	**21.4**	6/9/2004
Chromium, Hexavalent	4.80E-02	**0.022 J**	6/9/2004	0.011 U	12/6/2004
Lead	1.50E-02	**0.001**	6/9/2004	0.001 U	12/6/2004
Magnesium	NA	**6.54**	11/6/2000	**6**	6/9/2004
Manganese	2.24E+00	**0.001**	3/24/1998	0.001 U	12/6/2004
Potassium	NA	**3**	6/9/2004	**3**	6/9/2004
Sodium	NA	**8.3**	6/9/2004	**8.3**	6/9/2004
Vanadium	8.00E-02	**0.003**	2/15/1999	0.003 U	12/6/2004
Zinc	4.80E+00	**0.021**	8/31/1998	0.006 U	12/6/2004
PETROLEUM HYDROCARBONS (mg/L)					
Diesel-Range Organics	5.00E-01	**0.28**	5/15/2002	0.25 U	12/6/2004

Table 6-49
AOC A-06 Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
Acetone	7.20E+03	0	67	3	8.4	1.8
Chloromethane	NA	NA	67	4	0.8	0.3
Tetrachloroethene	5.00E+00	0	67	20	0.5	0.044
Trichloroethene	5.40E-01	2	69	3	1.16	0.2
Trichlorofluoromethane	2.40E+03	0	67	21	3	0.2
Vinyl Chloride	2.90E-02	6	67	6	0.17	0.05
DISSOLVED METALS (mg/L)						
Arsenic	8.00E-03	0	6	1	0.001	0.001
Copper	6.40E-01	0	2	2	0.002	0.002
Silver	8.00E-02	0	2	1	0.006	0.006
Zinc	4.80E+00	0	2	1	0.004	0.004

Table 6-50
AOC A-06 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample Location:		AGW020				AGW021			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
Acetone	7.20E+03	**1.8**	9/8/1997	5 U	11/25/2014	ND	--	5 U	3/11/1997
Chloromethane	NA	ND	--	0.5 U	11/25/2014	ND	--	2 UJ	3/11/1997
Tetrachloroethene	5.00E+00	**0.049**	7/28/2014	0.2 U	11/25/2014	ND	--	1 U	3/11/1997
Trichloroethene	5.40E-01	ND	--	0.2 U	11/25/2014	**1.05**	2/8/1994	1 U	3/11/1997
Trichlorofluoromethane	2.40E+03	**3**	3/11/1997	**1.1**	11/25/2014	ND	--	2 UJ	3/11/1997
Vinyl Chloride	2.90E-02	ND	--	0.020 U	11/25/2014	ND	--	2 UJ	3/11/1997
DISSOLVED METALS (mg/L)									
Arsenic	8.00E-03	ND	--	0.001 U	9/8/1997	ND	--	0.001 U	12/7/1995
Copper	6.40E-01	**0.002**	9/8/1997	0.002	9/8/1997	--	--	--	--
Silver	8.00E-02	**0.006**	9/8/1997	0.006	9/8/1997	--	--	--	--
Zinc	4.80E+00	ND	--	0.004 U	9/8/1997	--	--	--	--

Sample Location:		AGW022				AGW023			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
Acetone	7.20E+03	ND	--	5 U	3/11/1997	ND	--	5 U	3/8/2000
Chloromethane	NA	ND	--	2 U	3/11/1997	**0.3**	9/8/1997	1 U	3/8/2000
Tetrachloroethene	5.00E+00	ND	--	1 U	3/11/1997	ND	--	1 U	3/8/2000
Trichloroethene	5.40E-01	ND	--	1 U	3/11/1997	**1.16**	2/8/1994	1 U	3/8/2000
Trichlorofluoromethane	2.40E+03	ND	--	2 U	3/11/1997	**2.1**	9/25/1996	1 U	3/8/2000
Vinyl Chloride	2.90E-02	ND	--	2 U	3/11/1997	ND	--	1 U	3/8/2000
DISSOLVED METALS (mg/L)									
Arsenic	8.00E-03	ND	--	0.001 U	12/7/1995	**0.001**	9/8/1997	0.001	9/8/1997
Copper	6.40E-01	--	--	--	--	**0.002**	9/8/1997	0.002	9/8/1997
Silver	8.00E-02	--	--	--	--	ND	--	0.003 U	9/8/1997
Zinc	4.80E+00	--	--	--	--	**0.004**	9/8/1997	0.004	9/8/1997

Sample Location:		AGW132				AGW133-35			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
Acetone	7.20E+03	ND	--	5 U	6/9/2009	**3.7**	9/9/2008	**3.7**	9/9/2008
Chloromethane	NA	**0.8**	10/1/2008	0.5 U	6/9/2009	ND	--	0.2 U	9/9/2008
Tetrachloroethene	5.00E+00	**0.4**	6/9/2009	**0.4**	6/9/2009	ND	--	0.2 U	9/9/2008
Trichloroethene	5.40E-01	ND	--	0.2 U	6/9/2009	ND	--	0.2 U	9/9/2008
Trichlorofluoromethane	2.40E+03	ND	--	0.2 U	6/9/2009	ND	--	0.2 U	9/9/2008
Vinyl Chloride	2.90E-02	**0.1**	6/9/2009	**0.1**	6/9/2009	ND	--	0.2 U	9/9/2008
DISSOLVED METALS (mg/L)									
Arsenic	8.00E-03	--	--	--	--	--	--	--	--
Copper	6.40E-01	--	--	--	--	--	--	--	--
Silver	8.00E-02	--	--	--	--	--	--	--	--
Zinc	4.80E+00	--	--	--	--	--	--	--	--

Table 6-50
AOC A-06 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW133-45				AGW133			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
Acetone	7.20E+03	ND	--	3 U	9/9/2008	ND	--	5.0 U	6/3/2015
Chloromethane	NA	**0.4**	9/9/2008	**0.4**	9/9/2008	**0.6**	10/1/2008	0.5 U	6/3/2015
Tetrachloroethene	5.00E+00	ND	--	0.2 U	9/9/2008	**0.5**	6/9/2009	**0.4**	6/3/2015
Trichloroethene	5.40E-01	ND	--	0.2 U	9/9/2008	ND	--	0.2 U	6/3/2015
Trichlorofluoromethane	2.40E+03	ND	--	0.2 U	9/9/2008	ND	--	0.5 U	6/3/2015
Vinyl Chloride	2.90E-02	ND	--	0.2 U	9/9/2008	**0.13**	6/9/2009	0.020 U	6/3/2015
DISSOLVED METALS (mg/L)									
Arsenic	8.00E-03	**--**	--	**--**	--	**--**	--	**--**	--
Copper	6.40E-01	**--**	--	**--**	--	**--**	--	**--**	--
Silver	8.00E-02	**--**	--	**--**	--	**--**	--	**--**	--
Zinc	4.80E+00	**--**	--	**--**	--	**--**	--	**--**	--

	Sample Location:	AGW153			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date
VOLATILES (µg/L)					
Acetone	7.20E+03	**8.4**	10/29/2009	5.0 U	6/3/2015
Chloromethane	NA	ND	--	0.5 U	6/3/2015
Tetrachloroethene	5.00E+00	**0.2**	6/23/2014	0.2 U	6/3/2015
Trichloroethene	5.40E-01	ND	--	0.2 U	6/3/2015
Trichlorofluoromethane	2.40E+03	ND	--	0.5 U	6/3/2015
Vinyl Chloride	2.90E-02	**0.17**	10/29/2009	0.020 U	6/3/2015
DISSOLVED METALS (mg/L)					
Arsenic	8.00E-03	**--**	--	**--**	--
Copper	6.40E-01	**--**	--	**--**	--
Silver	8.00E-02	**--**	--	**--**	--
Zinc	4.80E+00	**--**	--	**--**	--

Table 6-51
AOC A-07 Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
1,1,1-Trichloroethane	2.00E+02	0	13	1	0.2	0.2
1,1-Dichloroethane	7.68E+00	0	13	3	0.6	0.3
1,2-Dichloroethane	4.81E-01	5	14	6	1.33	0.4
Acetone	7.20E+03	0	13	1	2.5	2.5
cis-1,2-Dichloroethene	1.60E+01	0	13	3	0.8	0.2
Tetrachloroethene	5.00E+00	0	13	4	0.9	0.2
Trichloroethene	5.40E-01	13	15	14	4.8	0.4
Trichlorofluoromethane	2.40E+03	0	13	1	0.2	0.2
DISSOLVED METALS (mg/L)						
Arsenic	8.00E-03	0	1	1	0.001	0.001

Table 6-52
AOC A-07 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW018			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date
VOLATILES (µg/L)					
1,1,1-Trichloroethane	2.00E+02	**0.2**	9/8/1997	0.2 U	5/23/2003
1,1-Dichloroethane	7.68E+00	**0.6**	9/8/1997	0.2 U	5/23/2003
1,2-Dichloroethane	4.81E-01	**1.33 J**	2/10/1994	0.2 U	5/23/2003
Acetone	7.20E+03	**2.5**	5/23/2003	**2.5**	5/23/2003
cis-1,2-Dichloroethene	1.60E+01	**0.8**	3/24/1998	0.2 U	5/23/2003
Tetrachloroethene	5.00E+00	**0.9**	9/8/1997	**0.2**	5/23/2003
Trichloroethene	5.40E-01	**4.8**	12/19/1996	**0.4**	5/23/2003
Trichlorofluoromethane	2.40E+03	**0.2**	2/15/1999	0.2 U	5/23/2003
DISSOLVED METALS (mg/L)					
Arsenic	8.00E-03	**0.001**	12/7/1995	**0.001**	12/7/1995

Table 6-53
AOC A-09 Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
TOTAL METALS (mg/kg)						
Aluminum	8.00E+04	0	47	47	23100	7170
Arsenic	7.00E+00	0	11	11	4.3	1.3
Barium	1.60E+04	0	11	11	69.1	32.3
Beryllium	1.60E+02	0	11	11	0.2	0.2
Cadmium	1.00E+00	15	47	31	642	0.2
Calcium	NA	NA	11	11	22200	5260
Chromium, Hexavalent (Diss)	1.84E+01	0	35	2	0.49	0.45
Chromium, Total	1.20E+05	0	47	47	89.2	10.9
Cobalt	NA	NA	11	11	7.9	5.3
Copper	2.84E+02	3	47	47	619	9.6
Iron	5.60E+04	0	11	11	22400	13400
Lead	2.50E+02	1	47	43	615	2
Magnesium	NA	NA	11	11	5850	2920
Manganese	1.12E+04	0	47	47	480	89.5
Nickel	1.30E+02	0	47	47	37	5
Potassium	NA	NA	11	11	1140	630
Sodium	NA	NA	11	11	1050	787
Titanium	NA	NA	36	36	1370	777
Vanadium	4.00E+02	0	11	11	51.1	40.3
Zinc	2.40E+04	0	47	47	191	20.8
CYANIDE (mg/kg)						
Cyanide, Post Chlorination	NA	0	16	12	530	0.33
Cyanide	4.80E+01	8	46	35	350	0.28

Table 6-54
AOC A-09 Soil Results - Detections
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	AGR07-HA1-1 9/12/1996	AGR07-HA1-3 9/12/1996	AGR07-HA1-6.5 9/12/1996	AGR07-HA2-3.75 9/13/1996	AGR07-HA2-6.0 9/13/1996	AGR07-HA3-2.5 9/13/1996	AGR07-SC4A-0-0.7 12/22/1997	AGR07-SC4A-1-1.5 12/22/1997	AGR07-SC4B-0-0.5 12/22/1997	AGR07-SC4B-1-1.5 12/22/1997	AGR07-SC4C-0-0.5 12/22/1997	AGR07-SC4C-1-1.5 12/22/1997	AGR07-SC4D-0-0.5 12/22/1997	AGR07-SC4D-1-1.5 12/22/1997	AGR07-SC4E-0-0.5 12/22/1997
TOTAL METALS (mg/kg)																
Aluminum	8.00E+04	**13400**	**16000**	**13800**	**17500**	**17500**	**14100**	**15200**	**13600**	**12800**	**12800**	**13800**	**12800**	**13400**	**10700**	**17500**
Arsenic	7.00E+00	--	--	--	--	--	--	**3.5**	**2.1**	**4.3**	**2.2**	**1.9**	**3**	**4**	**1.3**	**2.2**
Barium	1.60E+04	--	--	--	--	--	--	**49.9**	**47.7**	**36.7**	**34.6**	**42.5**	**69.1**	**40.6**	**32.3**	**50.4**
Beryllium	1.60E+02	--	--	--	--	--	--	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
Cadmium	1.00E+00	0.2 U	0.2 U	**248**	**0.3**	0.2 U	**0.3**	**0.4**	**0.2**	**0.4**	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U
Calcium	NA	--	--	--	--	--	--	**22200**	**9240**	**8670**	**6370**	**6790**	**5970**	**7080**	**5260**	**8890**
Chromium, Hexavalent (Diss)	1.84E+01	0.22 U	0.21 U	0.24 U	0.24 U	0.24 U	0.22 U	--	--	--	--	--	--	--	--	--
Chromium, Total	1.20E+05	**20.7**	**22.2**	**89.2**	**21.4**	**20.6**	**35.3**	**27.9**	**18.1**	**20.6**	**15.3**	**20.5**	**26.6**	**17.9**	**14.7**	**16.9**
Cobalt	NA	--	--	--	--	--	--	**6.3**	**5.8**	**6.8**	**5.5**	**5.9**	**6.3**	**7.1**	**5.3**	**7.9**
Copper	2.84E+02	**19.2**	**26.5**	**378**	**21.9**	**385**	**32.9**	**21.7**	**16.7**	**22.4**	**19.2**	**20.8**	**23.4**	**21.2**	**17.1**	**22.6**
Iron	5.60E+04	--	--	--	--	--	--	**18200**	**15000**	**14800**	**14200**	**17600**	**17500**	**16500**	**13400**	**22400**
Lead	2.50E+02	**6**	**5**	2 U	**5**	**5**	**74**	**5.8**	**4.1**	**6.5**	**3.1**	**3.8**	**6.2**	**5.8**	**2.6**	**3.8**
Magnesium	NA	--	--	--	--	--	--	**4170**	**3330**	**3320**	**3930**	**4600**	**3500**	**3930**	**2920**	**5850**
Manganese	1.12E+04	**196**	**265**	**132**	**264**	**184**	**220**	**222**	**171**	**218**	**184**	**248**	**204**	**207**	**166**	**317**
Nickel	1.30E+02	**14**	**17**	**27**	**14**	**31**	**12**	**14**	**13**	**13**	**12**	**16**	**13**	**13**	**10**	**16**
Potassium	NA	--	--	--	--	--	--	**1060**	**760**	**710**	**640**	**1090**	**1130**	**780**	**640**	**1140**
Sodium	NA	--	--	--	--	--	--	**895**	**938**	**909**	**962**	**787**	**897**	**862**	**787**	**1050**
Titanium	NA	**964**	**994**	**897**	**1050**	**1140**	**947**	--	--	--	--	--	--	--	--	--
Vanadium	4.00E+02	--	--	--	--	--	--	**47.9**	**45.6**	**42.4**	**43.7**	**40.3**	**48.1**	**43.1**	**44**	**50**
Zinc	2.40E+04	**33.6**	**35.3**	**27**	**38.3**	**35**	**191**	**42.3**	**31.5**	**36.1**	**28**	**33.8**	**34.6**	**32.7**	**27.6**	**39.2**
CYANIDE (mg/kg)																
Cyanide, Post Chlorination	NA	**1.4**	**0.36**	**89**	**1.9**	**390**	0.21 U	--	--	--	--	--	--	--	--	--
Cyanide	4.80E+01	0.21 U	0.21 U	**62**	**1.6**	**200**	0.21 U	**0.34**	**0.4**	**0.34**	**0.34**	**0.32**	**0.39**	**0.33**	**0.28**	**0.32**

Table 6-54
AOC A-09 Soil Results - Detections
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	Sample Location: AGR07-SC4E-1-1.5 12/22/1997	AGR07-SC4E-1.5-2 12/22/1997	AGW046-5 9/13/1996	AGW046-15 9/13/1996	AGW048-5 9/13/1996	AGW048-15 9/13/1996	AGW049-2 9/13/1996	AGW049-7.5 9/13/1996	AGW049-10 9/13/1996	AGW049-12.5 9/13/1996	AGW050-5 9/12/1996	AGW050-13 9/12/1996	CB2-AU-17-07-22 7/31/1996	CS2-AU/17-07-11 7/30/1996	CS2-AU/17-07-19 7/31/1996	P2-AU/17-07-16 7/30/1996
TOTAL METALS (mg/kg)																	
Aluminum	8.00E+04	**13300**	**13700**	**11600**	**9610**	**14800**	**7170**	**14500**	**14300**	**12800**	**9690**	**14700**	**10300**	**7570**	**14300**	**12800**	**15200**
Arsenic	7.00E+00	**3.4**	**3.2**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	1.60E+04	**45.5**	**43.1**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	1.60E+02	**0.2**	**0.2**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	1.00E+00	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	**37.8**	**0.5**	0.2 U	**0.3**	**0.5**	**0.3**	**0.8**	**642**	**492**
Calcium	NA	**7510**	**7590**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium, Hexavalent (Diss)	1.84E+01	--	--	0.23 U	0.24 U	0.22 U	0.26 U	0.21 U	0.23 U	0.23 U	0.21 U	0.22 U	0.21 U	0.24 U	0.25 U	0.25 U	**0.49**
Chromium, Total	1.20E+05	**26**	**15**	**15.6**	**15.3**	**17.4**	**17.7**	**23.9**	**37.5**	**22.3**	**17**	**16.4**	**25.8**	**10.9**	**16**	**15.6**	**22.3**
Cobalt	NA	**6**	**5.3**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	2.84E+02	**18.1**	**18**	**12.4**	**11.6**	**20.3**	**11.8**	**19.4**	**242**	**619**	**123**	**17.2**	**15.2**	**9.6**	**28**	**81.5**	**94.3**
Iron	5.60E+04	**14300**	**14400**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	2.50E+02	**10**	**8**	**5**	**3**	**6**	2 U	**6**	**5**	**5**	2 U	**4**	**2**	2 U	**10**	**5**	**4**
Magnesium	NA	**3280**	**3010**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	1.12E+04	**183**	**192**	**185**	**126**	**229**	**109**	**233**	**160**	**162**	**115**	**206**	**144**	**89.5**	**160**	**115**	**171**
Nickel	1.30E+02	**13**	**12**	**9**	**8**	**11**	**5**	**19**	**37**	**30**	**17**	**11**	**11**	**7**	**12**	**10**	**22**
Potassium	NA	**690**	**630**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	NA	**1020**	**928**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Titanium	NA	--	--	**923**	**922**	**1010**	**1050**	**1050**	**973**	**966**	**908**	**984**	**950**	**777**	**1030**	**917**	**993**
Vanadium	4.00E+02	**47.7**	**51.1**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	2.40E+04	**38.1**	**32.1**	**25.3**	**25.6**	**31.8**	**25.9**	**33.4**	**31.3**	**29.5**	**22.8**	**32**	**26.8**	**20.8**	**35.3**	**42.2**	**43.5**
CYANIDE (mg/kg)																	
Cyanide, Post Chlorination	NA	--	--	**0.86**	0.23 U	**0.33**	**0.7**	0.21 U	**530**	**21**	**1.7**	**0.38**	0.21 U	--	--	--	--
Cyanide	4.80E+01	**0.43**	**0.29**	0.23 U	0.24 U	0.22 U	**0.76**	0.2 U	**350**	**19**	**0.53**	0.22 U	0.21 U	**0.59**	**1**	**200**	**73**

Table 6-54
AOC A-09 Soil Results - Detections
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	PAU/17-07-24 8/1/1996	PAU/17-07-25 8/1/1996	PAU/17-07-39 8/1/1996	PAU/17-07-40 8/1/1996	PAU/17-07-41 8/1/1996	PAU/17-07-42 8/1/1996	PAU/17-07-43 8/1/1996	PAU/17-07-44 8/1/1996	PAU/17-07-45 8/6/1996	PAU/17-07-46 8/6/1996	PAU/17-07-47 8/6/1996	S2-AU/17-07-12 7/30/1996	VS2-AU/17-07-17 7/31/1996	VS2-AU/17-07-18 7/31/1996	VS2-AU/17-07-20 7/31/1996	VS2-AU/17-07-21 7/31/1996
TOTAL METALS (mg/kg)																	
Aluminum	8.00E+04	**9650**	**14900**	**15300**	**21700**	**10300**	**15100**	**21200**	**19000**	**23000**	**14100**	**13500**	**12000**	**12400**	**23100**	**17500**	**20300**
Arsenic	7.00E+00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	1.60E+04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	1.60E+02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	1.00E+00	0.2 U	**124**	**163**	**146**	**84**	**1.5**	**0.5**	0.2 U	**148**	**15**	**0.4**	**353**	**1**	**169**	**77.9**	**224**
Calcium	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium, Hexavalent (Diss)	1.84E+01	0.23 U	0.23 U	**0.45**	0.22 U	0.22 U	0.23 U	0.25 U	0.24 U	0.22 U	0.33 U	0.27 U	0.23 U	0.22 U	0.22 U	0.23 U	0.22 U
Chromium, Total	1.20E+05	**18.5**	**35.2**	**38.1**	**36.5**	**15.7**	**21.2**	**19.6**	**16.3**	**29.4**	**16.7**	**15.9**	**20.7**	**14.8**	**30.1**	**41.3**	**28.2**
Cobalt	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	2.84E+02	**13.2**	**64**	**35.4**	**90.6**	**80**	**19.8**	**36.6**	**21.2**	**131**	**102**	**21.4**	**181**	**16**	**108**	**22.6**	**93.5**
Iron	5.60E+04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	2.50E+02	**3**	**42**	**127**	**11**	**3**	**6**	**8**	**8**	**5**	**8**	**7**	**16**	**3**	**6**	**615**	**8**
Magnesium	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	1.12E+04	**103**	**220**	**221**	**302**	**165**	**208**	**196**	**177**	**332**	**263**	**343**	**156**	**187**	**480**	**256**	**310**
Nickel	1.30E+02	**8**	**18**	**16**	**28**	**9**	**13**	**15**	**13**	**32**	**15**	**11**	**17**	**14**	**36**	**21**	**25**
Potassium	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Titanium	NA	**1090**	**1010**	**961**	**1180**	**839**	**1010**	**1220**	**1140**	**1200**	**872**	**957**	**950**	**1030**	**1370**	**1100**	**1030**
Vanadium	4.00E+02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	2.40E+04	**25.4**	**42.5**	**47.6**	**65.6**	**21.3**	**38.2**	**39.4**	**31.9**	**48.1**	**31.4**	**27.9**	**36**	**27.7**	**49.5**	**37.3**	**42.9**
CYANIDE (mg/kg)																	
Cyanide, Post Chlorination	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide	4.80E+01	0.22 U	**110**	**77**	**28**	**41**	**2.9**	**0.44**	0.22 U	**5.3**	**18**	0.24 U	**75**	**2.2**	**16**	**21**	**13**

Table 6-55
AOC A-09 Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
Acetone	7.20E+03	0	15	1	6.8	6.8
Chloroform	1.41E+00	1	15	2	1.6	1.2
Chloromethane	NA	NA	15	1	0.7	0.7
cis-1,2-Dichloroethene	1.60E+01	0	15	12	1.6	0.2
Tetrachloroethene	5.00E+00	0	15	5	0.068	0.054
Trichloroethene	5.40E-01	13	15	13	4.9	1
DISSOLVED METALS (mg/L)						
Aluminum	3.50E+01	0	20	12	2.32	0.02
Arsenic	8.00E-03	2	22	13	0.014	0.001
Barium	2.00E+00	0	20	20	0.113	0.007
Beryllium	4.00E-03	0	22	1	0.002	0.002
Cadmium	5.00E-03	53	88	82	0.545	0.002
Calcium	NA	NA	15	15	60.5	7.75
Chromium, Hexavalent	4.80E-02	1	14	1	0.13	0.13
Chromium, Total	1.00E-01	2	27	13	0.263	0.005
Cobalt	NA	NA	15	7	0.083	0.005
Copper	6.40E-01	8	27	24	28.3	0.004
Lead	1.50E-02	0	27	3	0.006	0.003
Magnesium	NA	NA	19	19	12.7	1.86
Manganese	2.24E+00	0	25	25	1.57	0.003
Mercury	2.00E-03	1	22	7	0.0036	0.0002
Nickel	1.00E-01	15	76	48	2.06	0.007
Potassium	NA	NA	15	15	10.6	3.7
Silver	8.00E-02	0	22	3	0.015	0.003
Sodium	NA	NA	15	15	543	12.2
Titanium	NA	NA	5	2	0.478	0.026
Vanadium	8.00E-02	1	20	18	0.432	0.003
Zinc	4.80E+00	0	27	7	1.18	0.007
CYANIDE (mg/L)						
Cyanide	9.60E-03	25	29	27	0.93	0.008

Table 6-56
AOC A-09 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW046				AGW047			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
Acetone	7.20E+03	ND	--	5 U	9/29/2010	ND	--	5 U	9/29/2010
Chloroform	1.41E+00	ND	--	0.2 U	9/29/2010	ND	--	0.2 U	9/29/2010
Chloromethane	NA	ND	--	0.5 U	9/29/2010	ND	--	0.5 U	9/29/2010
cis-1,2-Dichloroethene	1.60E+01	**1.5**	3/19/1997	**0.6**	9/29/2010	**1.4**	12/13/1996	**0.3**	9/29/2010
Tetrachloroethene	5.00E+00	**0.054**	9/29/2010	**0.054**	9/29/2010	**0.062**	9/29/2010	**0.062**	9/29/2010
Trichloroethene	5.40E-01	**2.9**	12/13/1996	**1.2**	9/29/2010	**3.3**	3/19/1997	**1**	9/29/2010
DISSOLVED METALS (mg/L)									
Aluminum	1.60E+01	**0.02**	9/26/1996	0.05 U	6/16/2004	**0.04**	9/26/1996	0.05 U	6/16/2004
Arsenic	8.00E-03	**0.003**	12/10/2004	**0.003**	12/10/2004	**0.002**	12/10/2004	**0.002**	12/10/2004
Barium	2.00E+00	**0.017**	6/16/2004	**0.012**	12/10/2004	**0.013**	8/31/1999	**0.007**	12/10/2004
Beryllium	4.00E-03	ND	--	0.001 U	12/10/2004	ND	--	0.001 U	12/10/2004
Cadmium	5.00E-03	ND	--	0.002 U	12/10/2004	**0.008**	9/10/1997	0.002 U	12/10/2004
Calcium	NA	**26.4**	6/16/2004	**26.4**	6/16/2004	**44.4**	2/22/1999	**37.7**	6/16/2004
Chromium, Hexavalent	4.80E-02	ND	--	0.01 U	9/26/1996	ND	--	0.01 U	3/13/2000
Chromium, Total	1.00E-01	ND	--	0.005 U	12/10/2004	ND	--	0.005 U	12/10/2004
Cobalt	NA	**0.005**	6/16/2004	**0.005**	6/16/2004	ND	--	.003 U	6/16/2004
Copper	6.40E-01	ND	--	0.002 U	12/10/2004	**0.012**	9/26/1996	**0.005**	12/10/2004
Lead	1.50E-02	ND	--	0.001 U	12/10/2004	ND	--	0.001 U	12/10/2004
Magnesium	NA	**7.37**	6/16/2004	**7.37**	6/16/2004	**10.7**	2/22/1999	**8.73**	6/16/2004
Manganese	2.24E+00	**0.939**	9/26/1996	**0.575**	12/10/2004	**0.39**	9/26/1996	**0.143**	12/10/2004
Mercury	2.00E-03	ND	--	0.0001 U	12/10/2004	ND	--	0.0001 U	12/10/2004
Nickel	1.00E-01	ND	--	0.01 U	12/10/2004	ND	--	0.01 U	12/10/2004
Potassium	NA	**5.3**	6/16/2004	**5.3**	6/16/2004	**4.7**	3/26/1998	**4.5**	6/16/2004
Silver	8.00E-02	ND	--	0.003 U	12/10/2004	**0.003**	3/13/2000	0.003 U	12/10/2004
Sodium	NA	**12.2**	6/16/2004	**12.2**	6/16/2004	**21.2**	3/26/1998	**15.3**	6/16/2004
Titanium	NA	ND	--	.005 U	9/26/1996	ND	--	.005 U	9/26/1996
Vanadium	8.00E-02	**0.004**	12/10/2004	**0.004**	12/10/2004	**0.004**	12/10/2004	**0.004**	12/10/2004
Zinc	4.80E+00	ND	--	0.006 U	12/10/2004	ND	--	0.006 U	12/10/2004
CYANIDE (mg/L)									
Cyanide	9.60E-03	**--**	--	**--**	--	**0.3**	2/22/1999	**0.074**	3/13/2000

Table 6-56
AOC A-09 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample Location:		AGW048				AGW049			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
Acetone	7.20E+03	ND	--	5 U	9/29/2010	ND	--	5 U	9/29/2010
Chloroform	1.41E+00	ND	--	0.2 U	9/29/2010	ND	--	0.2 U	9/29/2010
Chloromethane	NA	ND	--	0.5 U	9/29/2010	ND	--	0.5 U	9/29/2010
cis-1,2-Dichloroethene	1.60E+01	**1.6**	3/19/1997	**0.5**	9/29/2010	**0.7**	9/29/2010	**0.7**	9/29/2010
Tetrachloroethene	5.00E+00	**0.058**	9/29/2010	**0.058**	9/29/2010	**0.064**	9/29/2010	**0.064**	9/29/2010
Trichloroethene	5.40E-01	**4.9**	3/19/1997	**1.1**	9/29/2010	**1.6**	9/29/2010	**1.6**	9/29/2010
DISSOLVED METALS (mg/L)									
Aluminum	1.60E+01	**0.11**	9/26/1996	0.05 U	6/16/2004	**2.32**	9/26/1996	**0.07**	6/16/2004
Arsenic	8.00E-03	ND	--	0.001 U	12/10/2004	**0.014**	9/10/1997	**0.003**	12/10/2004
Barium	2.00E+00	**0.014**	6/16/2004	**0.01**	12/10/2004	**0.113**	9/3/1998	**0.022**	12/10/2004
Beryllium	4.00E-03	ND	--	0.001 U	12/10/2004	**0.002**	9/10/1997	0.001 U	12/10/2004
Cadmium	5.00E-03	**0.01**	9/26/1996	**0.0038**	6/9/2015	**0.545 J**	9/26/1996	**0.0039**	12/8/2015
Calcium	NA	**36.3**	6/16/2004	**36.3**	6/16/2004	**60.5**	9/3/1998	**7.75**	6/16/2004
Chromium, Hexavalent	4.80E-02	ND	--	0.01 U	9/26/1996	**0.13**	9/3/1998	0.5 U	3/13/2000
Chromium, Total	1.00E-01	**0.005**	9/26/1996	0.005 U	12/10/2004	**0.263**	9/10/1997	**0.007**	12/10/2004
Cobalt	NA	ND	--	0.003 U	6/16/2004	**0.083**	9/3/1998	**0.009**	6/16/2004
Copper	6.40E-01	**0.392**	9/26/1996	**0.01**	12/10/2004	**28.3**	9/10/1997	**1.47**	12/10/2004
Lead	1.50E-02	ND	--	0.001 U	12/10/2004	**0.006**	9/10/1997	0.001 U	12/10/2004
Magnesium	NA	**8.55**	6/16/2004	**8.55**	6/16/2004	**11**	9/3/1998	**1.86**	6/16/2004
Manganese	2.24E+00	**0.293**	9/26/1996	**0.178**	12/10/2004	**1.57**	9/26/1996	**0.306**	12/10/2004
Mercury	2.00E-03	ND	--	0.0001 U	12/10/2004	**0.0036**	9/10/1997	**0.0002**	12/10/2004
Nickel	1.00E-01	**0.03**	9/26/1996	0.0020 U	6/9/2015	**2.06**	9/26/1996	**0.0498**	12/8/2015
Potassium	NA	**4.7**	6/16/2004	**4.7**	6/16/2004	**10.6**	9/3/1998	**3.7**	6/16/2004
Silver	8.00E-02	ND	--	0.003 U	12/10/2004	**0.015**	9/10/1997	0.003 U	12/10/2004
Sodium	NA	**17**	6/16/2004	**17**	6/16/2004	**543**	9/3/1998	**84.2**	6/16/2004
Titanium	NA	**0.026**	9/26/1996	**0.026**	9/26/1996	**0.478**	9/26/1996	**0.478**	9/26/1996
Vanadium	8.00E-02	**0.003**	12/10/2004	**0.003**	12/10/2004	**0.432**	9/3/1998	**0.026**	12/10/2004
Zinc	4.80E+00	ND	--	0.006 U	12/10/2004	**1.18**	9/26/1996	**0.011**	12/10/2004
CYANIDE (mg/L)									
Cyanide	9.60E-03	**--**	--	**--**	--	**0.078**	8/31/1999	**0.022**	3/13/2000

Table 6-56
AOC A-09 Groundwater Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW050			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date
VOLATILES (µg/L)					
Acetone	7.20E+03	**6.8**	9/29/2010	**6.8**	9/29/2010
Chloroform	1.41E+00	**1.6**	3/19/1997	0.2 U	9/29/2010
Chloromethane	NA	**0.7**	9/29/2010	**0.7**	9/29/2010
cis-1,2-Dichloroethene	1.60E+01	**1.3**	3/19/1997	**0.2**	9/29/2010
Tetrachloroethene	5.00E+00	**0.068**	9/29/2010	**0.068**	9/29/2010
Trichloroethene	5.40E-01	**3.2**	3/19/1997	**1.1**	9/29/2010
DISSOLVED METALS (mg/L)					
Aluminum	1.60E+01	**0.76**	9/26/1996	0.05 U	6/16/2004
Arsenic	8.00E-03	**0.001**	12/10/2004	**0.001**	12/10/2004
Barium	2.00E+00	**0.023**	6/16/2004	**0.013**	12/10/2004
Beryllium	4.00E-03	ND	--	0.001 U	12/10/2004
Cadmium	5.00E-03	**0.105**	6/16/2011	**0.0169**	12/8/2015
Calcium	NA	**53.8**	6/16/2004	**53.8**	6/16/2004
Chromium, Hexavalent	4.80E-02	ND	--	0.01 U	9/26/1996
Chromium, Total	1.00E-01	**0.009**	6/16/2004	**0.008**	12/10/2004
Cobalt	NA	ND	--	0.003 U	6/16/2004
Copper	6.40E-01	**0.039**	9/26/1996	**0.021**	12/10/2004
Lead	1.50E-02	ND	--	0.001 U	12/10/2004
Magnesium	NA	**12.7**	6/16/2004	**12.7**	6/16/2004
Manganese	2.24E+00	**0.658**	9/26/1996	**0.113**	12/10/2004
Mercury	2.00E-03	ND	--	0.0001 U	12/10/2004
Nickel	1.00E-01	**0.207**	6/24/2014	**0.0189**	12/8/2015
Potassium	NA	**6.4**	6/16/2004	**6.4**	6/16/2004
Silver	8.00E-02	ND	--	0.003 U	12/10/2004
Sodium	NA	**24.9**	6/16/2004	**24.9**	6/16/2004
Titanium	NA	ND	--	0.005 U	9/26/1996
Vanadium	8.00E-02	**0.006**	12/10/2004	**0.006**	12/10/2004
Zinc	4.80E+00	**0.013**	9/26/1996	**0.007**	12/10/2004
CYANIDE (mg/L)					
Cyanide	9.60E-03	**--**	--	**--**	--

Table 6-57
AOC A-10 Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/kg)						
1,1-Dichloroethane	4.19E+01	0	13	1	2.6	2.6
1,2,4-Trimethylbenzene	NA	NA	11	1	1300	1300
1,3,5-Trimethylbenzene	8.00E+05	0	5	1	370	370
2-Butanone/MEK	4.80E+07	0	13	6	80	18
4-Isopropyltoluene	NA	NA	5	1	100	100
4-Methyl-2-pentanone	6.40E+06	0	13	3	6200	74
Acetone	7.20E+07	0	13	11	2700	5.3
Carbon Disulfide	8.00E+06	0	8	2	2	1
Ethylbenzene	6.05E+03	0	18	3	14	2.5
Isopropylbenzene	8.00E+06	0	5	1	34	34
m-&p-Xylenes	1.46E+04	0	18	6	74	1.9
Methylene Chloride	2.18E+01	2	8	3	240	3.1
Naphthalene	1.60E+06	0	12	2	79	5.1
n-Butylbenzene	4.00E+06	0	5	1	130	130
n-Propylbenzene	8.00E+06	0	5	1	110	110
o-Xylene	1.46E+04	0	18	4	72	2.2
sec-Butylbenzene	8.00E+06	0	5	1	110	110
Toluene	4.65E+03	0	18	7	38	1.2
SEMI-VOLATILES (µg/kg)						
2-Methylnaphthalene	3.20E+05	0	2	2	180	41
Acenaphthene	4.80E+06	0	7	1	5.2	5.2
Anthracene	2.40E+07	0	7	1	15	15
Benzo(a)anthracene	(a)	NA	13	1	200	200
Benzo(a)pyrene	1.37E+02	0	13	2	7.2	3.8
Benzo(b)fluoranthene	(a)	NA	13	5	570	54
Benzo(g,h,i)perylene	NA	NA	7	1	38	38
Benzo(k)fluoranthene	(a)	NA	13	3	100	43
Chrysene	(a)	NA	13	4	18	3.9
Fluoranthene	3.20E+06	0	7	1	76	76
Fluorene	3.20E+06	0	7	2	9.4	6.6
Indeno(1,2,3-cd)pyrene	(a)	NA	13	2	25	2.5
Phenanthrene	NA	NA	7	3	100	26
Pyrene	2.40E+03	0	7	2	82	12
TOTAL METALS (mg/kg)						
Aluminum	8.00E+04	0	6	6	18500	15300
Antimony	5.42E+00	4	16	5	7	5
Barium	1.60E+04	0	6	6	2100	46.2
Beryllium	1.60E+02	0	16	16	0.31	0.1
Cadmium	1.00E+00	0	16	8	0.6	0.2

Table 6-57
AOC A-10 Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
Calcium	NA	NA	6	6	12200	7040
Chromium, Total	1.20E+05	0	16	16	25.2	12.9
Cobalt	NA	NA	6	6	9.1	5.6
Copper	2.84E+02	0	16	16	33.5	10.2
Iron	5.60E+04	0	6	6	21100	16300
Lead	2.50E+02	0	16	16	16	3
Magnesium	NA	NA	6	6	5900	3460
Manganese	1.12E+04	0	6	6	327	253
Mercury	2.09E+00	0	16	2	0.18	0.05
Nickel	1.30E+02	0	16	16	24.1	9
Potassium	NA	NA	6	6	1140	760
Selenium	4.00E+02	0	16	3	8	6
Silver	4.00E+02	0	16	6	0.6	0.3
Sodium	NA	NA	6	6	827	618
Vanadium	4.00E+02	0	6	6	52	43.5
Zinc	2.40E+04	0	16	16	382	21.4
PETROLEUM HYDROCARBONS (mg/kg)						
Diesel-Range Organics	2000 (b)	5	16	11	6900	5.9
Gasoline-Range Organics	100 (b,c)	0	4	4	91	7.4
Oil-Range Organics	2000 (b)	7	16	11	26000	18
EXTRACTABLE PETROLEUM HYDROCARBONS (mg/kg)						
Aliphatic Hydrocarbons C10-C12	NA	NA	10	1	13000	13000
Aliphatic Hydrocarbons C12-C16	NA	NA	5	1	18000	18000
Aliphatic Hydrocarbons C16-C18	NA	NA	5	1	54000	54000
Aliphatic Hydrocarbons C18-C21	NA	NA	5	1	280000	280000
Aliphatic Hydrocarbons C21-C28	NA	NA	5	2	3400000	7100
Aliphatic Hydrocarbons C28-C36	NA	NA	5	1	6200000	6200000
Aliphatic Hydrocarbons, Total	NA	NA	3	3	10000000	7100
Aromatic Hydrocarbons C16-C18	NA	NA	5	1	20000	20000
Aromatic Hydrocarbons C18-C21	NA	NA	5	1	60000	60000
Aromatic Hydrocarbons C21-C28	NA	NA	5	1	430000	430000
Aromatic Hydrocarbons C28-C36	NA	NA	5	1	290000	290000
Aromatic Hydrocarbons C8-C10	NA	NA	5	1	8800	8800
Aromatic Hydrocarbons, Total	NA	NA	2	2	810000	8800
POLYCHLORINATED BIPHENYLS/ PESTICIDES (µg/kg)						
Aroclor 1260	5.00E+02	0	5	1	41	41
Total PCBs	5.00E+02	0	5	1	41	41

Table 6-58
AOC A-10 Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	AGR10-C3A-1 9/14/2001	AGR10-C3B-1.6 9/14/2001	AGR10-C3C-1 9/14/2001	AGR10-C3D-1 9/14/2001	AGR10-C3E-1.6 9/14/2001	AGR10-C3F-1.6 9/14/2001	AGW038-2.5 4/30/1996	AGW038-6.0 4/30/1996	AGW038-8.5 4/30/1996	AGW038-11.0 4/30/1996	AGW039-6.0 4/30/1996	AGW039-8.5 4/30/1996	AGW039-11.0 4/30/1996	AGW040-6.5 4/30/1996	AGW040-8.5 4/30/1996	AGW040-11.0 4/30/1996
VOLATILES (µg/kg)																	
1,1-Dichloroethane	4.19E+01	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	1.3 U	--	1.1 U	--	--	--	--
1,2,4-Trimethylbenzene	NA	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	8.00E+05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone/MEK	4.80E+07	5.2 U	5.2 U	5 U	5.1 U	5.1 U	5.2 U	--	--	--	**51**	--	**80**	--	--	--	--
4-Isopropyltoluene	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	6.40E+06	5.2 U	5.2 U	5 U	5.1 U	5.1 U	5.2 U	--	--	--	**3700**	--	**6200**	--	--	--	--
Acetone	7.20E+07	**6.1**	**9.7**	**6.1**	**6.8**	**13**	**5.3**	--	--	--	**2700**	--	**1400**	--	--	--	--
Carbon Disulfide	8.00E+06	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	1.3 U	--	**2**	--	--	--	--
Ethylbenzene	6.05E+03	1 U	**2.1**	1 U	1 U	1 U	**2.5**	--	--	--	1.3 U	--	**13**	--	--	--	--
Isopropylbenzene	8.00E+06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m-&p-Xylenes	1.46E+04	1 U	**9.7**	1 U	1 U	**1.9**	**11**	--	--	--	**3.2**	--	**71**	--	--	--	--
Methylene Chloride	2.18E+01	3.1 U	**3.1**	3 U	3 U	3.1 U	3.1 U	--	--	--	**240**	--	**130**	--	--	--	--
Naphthalene	1.60E+06	--	--	--	--	--	--	--	--	--	**5.1**	--	42 U	--	--	--	--
n-Butylbenzene	4.00E+06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	8.00E+06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	1.46E+04	1 U	**3.2**	1 U	1 U	1 U	**3.5**	--	--	--	**2.2**	--	**72**	--	--	--	--
sec-Butylbenzene	8.00E+06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	4.65E+03	1 U	**6.9**	1 U	**1.2**	**1.2**	**8.8**	--	--	--	**6.4**	--	**24**	--	--	--	--
SEMI-VOLATILES (µg/kg)																	
2-Methylnaphthalene	3.20E+05	--	--	--	--	--	--	--	--	--	**41**	--	**180**	--	--	--	--
Acenaphthene	4.80E+06	--	--	--	--	--	--	--	--	--	**5.2**	--	45 U	--	--	--	--
Anthracene	2.40E+07	--	--	--	--	--	--	--	--	--	4.2 U	--	45 U	--	--	--	--
Benzo(a)anthracene	(a)	70 U	70 U	70 U	260 U	69 U	100 U	--	--	--	4.2 U	--	45 U	--	--	--	--
Benzo(a)pyrene	1.37E+02	70 U	70 U	70 U	260 U	69 U	100 U	--	--	--	4.2 U	--	45 U	--	--	--	--
Benzo(b)fluoranthene	(a)	70 U	70 U	70 U	260 U	69 U	100 U	--	--	--	4.2 U	--	45 U	--	--	--	--
Benzo(g,h,i)perylene	NA	--	--	--	--	--	--	--	--	--	4.2 U	--	45 U	--	--	--	--
Benzo(k)fluoranthene	(a)	70 U	70 U	70 U	260 U	69 U	100 U	--	--	--	4.2 U	--	45 U	--	--	--	--
Chrysene	(a)	70 U	70 U	70 U	260 U	69 U	100 U	--	--	--	4.2 U	--	45 U	--	--	--	--
Fluoranthene	3.20E+06	--	--	--	--	--	--	--	--	--	4.2 U	--	45 U	--	--	--	--
Fluorene	3.20E+06	--	--	--	--	--	--	--	--	--	**6.6**	--	45 U	--	--	--	--
Indeno(1,2,3-cd)pyrene	(a)	70 U	70 U	70 U	260 U	69 U	100 U	--	--	--	4.2 U	--	45 U	--	--	--	--
Phenanthrene	NA	--	--	--	--	--	--	--	--	--	**26**	--	**100**	--	--	--	--
Pyrene	2.40E+03	--	--	--	--	--	--	--	--	--	**12**	--	45 U	--	--	--	--
TEQ	137	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND	--	--	--	--
TOTAL METALS (mg/kg)																	
Aluminum	8.00E+04	**16400**	**17600**	**16500**	**15300**	**18500**	**15600**	--	--	--	--	--	--	--	--	--	--
Antimony	5.42E+00	5 U	**6**	**7**	**6**	**6**	**5**	5 U	5 U	5 U	6 U	6 U	5 U	6 U	8 U	5 U	6 U
Barium	1.60E+04	**61.7**	**77.5**	**46.2**	**2100**	**102**	**271**	--	--	--	--	--	--	--	--	--	--
Beryllium	1.60E+02	**0.3**	**0.31**	**0.28**	**0.3**	**0.29**	**0.28**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.2**	**0.3**	**0.1**	**0.2**
Cadmium	1.00E+00	0.2 U	**0.2**	**0.2**	**0.5**	**0.3**	**0.3**	**0.3**	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.6**	0.2 U	0.3 U
Calcium	NA	**7770**	**10300**	**7530**	**7040**	**12200**	**7800**	--	--	--	--	--	--	--	--	--	--

Table 6-58
AOC A-10 Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	AGR10-C3A-1 9/14/2001	AGR10-C3B-1.6 9/14/2001	AGR10-C3C-1 9/14/2001	AGR10-C3D-1 9/14/2001	AGR10-C3E-1.6 9/14/2001	AGR10-C3F-1.6 9/14/2001	AGW038-2.5 4/30/1996	AGW038-6.0 4/30/1996	AGW038-8.5 4/30/1996	AGW038-11.0 4/30/1996	AGW039-6.0 4/30/1996	AGW039-8.5 4/30/1996	AGW039-11.0 4/30/1996	AGW040-6.5 4/30/1996	AGW040-8.5 4/30/1996	AGW040-11.0 4/30/1996
Chromium, Total	1.20E+05	**20.1**	**21.3**	**20.3**	**23.9**	**25.2**	**23**	**16.2**	**13.9**	**14.5**	**15.8**	**14.8**	**13**	**20.7**	**21.2**	**12.9**	**13.3**
Cobalt	NA	**6.1**	**6.4**	**7.2**	**5.6**	**9.1**	**7.7**	--	--	--	--	--	--	--	--	--	--
Copper	2.84E+02	**21.1**	**22.3**	**18.1**	**19.7**	**24.5**	**20.6**	**17**	**15.6**	**15.9**	**16.2**	**13.5**	**10.2**	**23.5**	**33.5**	**12.6**	**18.9**
Iron	5.60E+04	**16300**	**16900**	**18700**	**20100**	**20800**	**21100**	--	--	--	--	--	--	--	--	--	--
Lead	2.50E+02	**5**	**5**	**6**	**3**	**10**	**11**	**7**	**5**	**5**	**5**	**6**	**4**	**5**	**16**	**5**	**4**
Magnesium	NA	**3460**	**3740**	**4740**	**5800**	**5060**	**5900**	--	--	--	--	--	--	--	--	--	--
Manganese	1.12E+04	**253**	**276**	**281**	**299**	**320**	**327**	--	--	--	--	--	--	--	--	--	--
Mercury	2.09E+00	0.05 U	0.04 U	0.04 U	0.04 U	**0.05**	0.04 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	**0.18**	0.05 U	0.06 U
Nickel	1.30E+02	**15**	**17.1**	**19.8**	**22**	**21**	**24.1**	**11**	**10**	**11**	**11**	**10**	**9**	**19**	**15**	**9**	**12**
Potassium	NA	**770**	**1000**	**760**	**1060**	**990**	**1140**	--	--	--	--	--	--	--	--	--	--
Selenium	4.00E+02	5 U	5 U	**8**	5 U	**7**	**6**	5 U	5 U	5 U	6 U	6 U	5 U	6 U	8 U	5 U	6 U
Silver	4.00E+02	**0.6**	**0.4**	**0.3**	**0.5**	**0.5**	**0.4**	0.3 U	0.3 U	0.3 U	0.4 U	0.3 U	0.3 U	0.4 U	0.5 U	0.3 U	0.4 U
Sodium	NA	**827**	**812**	**791**	**618**	**809**	**620**	--	--	--	--	--	--	--	--	--	--
Vanadium	4.00E+02	**44.2**	**43.5**	**52**	**47**	**49.9**	**50.5**	--	--	--	--	--	--	--	--	--	--
Zinc	2.40E+04	**42.1**	**50.7**	**33.6**	**382**	**227**	**106**	**39.4**	**25.5**	**31.1**	**23.2**	**27.2**	**21.4**	**28.2**	**44.4**	**23.2**	**23.4**
PETROLEUM HYDROCARBONS (mg/kg)																	
Diesel-Range Organics	2,000 (b)	**8.8**	**170**	**5.9**	**3400**	**160**	**800**	25 U	**3500**	**6900**	**550**	25 U	**2200**	**620**	25 U	25 U	25 U
Gasoline-Range Organics	100 (b,c)	--	--	--	--	--	--	20 U	20 U	**27**	**7.4**	20 U	**86**	**91**	20 U	20 U	20 U
Oil-Range Organics	2,000 (b)	**42**	**690**	**18**	**6100**	**490**	**2300**	50 U	**12000**	**26000**	**2500**	50 U	**12000**	**2600**	50 U	50 U	50 U
EXTRACTABLE PETROLEUM HYDROCARBONS (µg/kg)																	
Aliphatic Hydrocarbons C10-C12	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aliphatic Hydrocarbons C12-C16	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aliphatic Hydrocarbons C16-C18	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aliphatic Hydrocarbons C18-C21	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aliphatic Hydrocarbons C21-C28	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aliphatic Hydrocarbons C28-C36	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aromatic Hydrocarbons C16-C18	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aromatic Hydrocarbons C18-C21	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aromatic Hydrocarbons C21-C28	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aromatic Hydrocarbons C28-C36	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aromatic Hydrocarbons C8-C10	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POLYCHLORINATED BIPHENYLS (µg/kg)																	
Aroclor 1260	5.00E+02	--	--	--	--	--	--	--	37 U	110 U	42 U	--	**41**	130 U	--	--	--
Total PCBs	5.00E+02	--	--	--	--	--	--	--	ND	ND	ND	--	**41**	ND	--	--	--

Table 6-58
AOC A-10 Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	ASB0090-10 2/28/2001	ASB0090-14 2/28/2001	ASB0091-14 2/28/2001	ASB0092-7.5 3/1/2001	ASB0092-14 3/1/2001	ASB0093-7.5 3/1/2001
VOLATILES (µg/kg)							
1,1-Dichloroethane	4.19E+01	11 U	**2.6**	1.3 U	--	1.3 U	12 U
1,2,4-Trimethylbenzene	NA	**1300**	1.5 U	1.3 U	--	1.3 U	12 U
1,3,5-Trimethylbenzene	8.00E+05	**370**	1.5 U	1.3 U	--	1.3 U	12 U
2-Butanone/MEK	4.80E+07	55 U	**18**	**25**	--	**28**	**72**
4-Isopropyltoluene	NA	**100**	1.5 U	1.3 U	--	1.3 U	12 U
4-Methyl-2-pentanone	6.40E+06	**74**	7.6 U	6.7 U	--	6.7 U	58 U
Acetone	7.20E+07	**340**	**81**	**140**	--	**130**	380 U
Carbon Disulfide	8.00E+06	--	--	--	--	--	--
Ethylbenzene	6.05E+03	**14**	1.5 U	1.3 U	--	1.3 U	12 U
Isopropylbenzene	8.00E+06	**34**	1.5 U	1.3 U	--	1.3 U	12 U
m-&p-Xylenes	1.46E+04	**74**	1.5 U	1.3 U	--	1.3 U	12 U
Methylene Chloride	2.18E+01	--	--	--	--	--	--
Naphthalene	1.60E+06	**79**	7.6 U	6.7 U	50 U	6.7 U	53 U
n-Butylbenzene	4.00E+06	**130** J	3 U	2.7 U	--	2.7 U	23 U
n-Propylbenzene	8.00E+06	**110**	1.5 U	1.3 U	--	1.3 U	12 U
o-Xylene	1.46E+04	**65**	1.5 U	1.3 U	--	1.3 U	12 U
sec-Butylbenzene	8.00E+06	**110**	1.5 U	1.3 U	--	1.3 U	12 U
Toluene	4.65E+03	**38**	1.5 U	1.3 U	--	1.3 U	12 U
SEMI-VOLATILES (µg/kg)							
2-Methylnaphthalene	3.20E+05	--	--	--	--	--	--
Acenaphthene	4.80E+06	56 U	55 U	65 U	50 U	--	53 U
Anthracene	2.40E+07	**15**	13 U	15 U	12 U	--	12 U
Benzo(a)anthracene	(a)	**200**	1 U	1.2 U	0.95 U	--	1 U
Benzo(a)pyrene	1.37E+02	**7.2**	**3.8**	1.7 U	1.3 U	--	1.4 U
Benzo(b)fluoranthene	(a)	**130**	**570**	**270**	**460**	--	**54**
Benzo(g,h,i)perylene	NA	130 U	**38**	3.6 U	2.8 U	--	3 U
Benzo(k)fluoranthene	(a)	**51**	**100**	**43**	1.1 U	--	19 U
Chrysene	(a)	**18**	**14**	**9.7**	3.3 U	--	**3.9**
Fluoranthene	3.20E+06	**76**	9.8 U	12 U	8.9 U	--	9.5 U
Fluorene	3.20E+06	**9.4**	9.2 U	11 U	8.4 U	--	8.9 U
Indeno(1,2,3-cd)pyrene	(a)	**25**	6.3 U	**2.5**	1.4 U	--	1.5 U
Phenanthrene	NA	**36**	13 U	15 U	12 U	--	12 U
Pyrene	2.40E+03	**82**	5.5 U	6.5 U	5 U	--	5.3 U
TEQ	137	**140**	**576**	**271**	**460**	--	**54**
TOTAL METALS (mg/kg)							
Aluminum	8.00E+04	--	--	--	--	--	--
Antimony	5.42E+00	--	--	--	--	--	--
Barium	1.60E+04	--	--	--	--	--	--
Beryllium	1.60E+02	--	--	--	--	--	--
Cadmium	1.00E+00	--	--	--	--	--	--
Calcium	NA	--	--	--	--	--	--

Table 6-58
AOC A-10 Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	ASB0090-10 2/28/2001	ASB0090-14 2/28/2001	ASB0091-14 2/28/2001	ASB0092-7.5 3/1/2001	ASB0092-14 3/1/2001	ASB0093-7.5 3/1/2001
Chromium, Total	1.20E+05	--	--	--	--	--	--
Cobalt	NA	--	--	--	--	--	--
Copper	2.84E+02	--	--	--	--	--	--
Iron	5.60E+04	--	--	--	--	--	--
Lead	2.50E+02	--	--	--	--	--	--
Magnesium	NA	--	--	--	--	--	--
Manganese	1.12E+04	--	--	--	--	--	--
Mercury	2.09E+00	--	--	--	--	--	--
Nickel	1.30E+02	--	--	--	--	--	--
Potassium	NA	--	--	--	--	--	--
Selenium	4.00E+02	--	--	--	--	--	--
Silver	4.00E+02	--	--	--	--	--	--
Sodium	NA	--	--	--	--	--	--
Vanadium	4.00E+02	--	--	--	--	--	--
Zinc	2.40E+04	--	--	--	--	--	--
PETROLEUM HYDROCARBONS (mg/kg)							
Diesel-Range Organics	2,000 (b)	--	--	--	--	--	--
Gasoline-Range Organics	100 (b,c)	--	--	--	--	--	--
Oil-Range Organics	2,000 (b)	--	--	--	--	--	--
EXTRACTABLE PETROLEUM HYDROCARBONS (µg/kg)							
Aliphatic Hydrocarbons C10-C12	NA	**13000**	5000 U	5000 U	5000 U	--	5000 U
Aliphatic Hydrocarbons C12-C16	NA	**18000**	6500 U	6400 U	6000 U	--	6200 U
Aliphatic Hydrocarbons C16-C18	NA	**54000**	6500 U	6400 U	6000 U	--	6200 U
Aliphatic Hydrocarbons C18-C21	NA	**280000**	6500 U	6400 U	6000 U	--	6200 U
Aliphatic Hydrocarbons C21-C28	NA	**3400000**	**7100**	6400 U	6000 U	--	6200 U
Aliphatic Hydrocarbons C28-C36	NA	**6200000**	6500 U	6400 U	6000 U	--	6200 U
Aromatic Hydrocarbons C16-C18	NA	**20000**	6500 U	6400 U	6000 U	--	6200 U
Aromatic Hydrocarbons C18-C21	NA	**60000**	6500 U	6400 U	6000 U	--	6200 U
Aromatic Hydrocarbons C21-C28	NA	**430000**	6500 U	6400 U	6000 U	--	6200 U
Aromatic Hydrocarbons C28-C36	NA	**290000**	6500 U	6400 U	6000 U	--	6200 U
Aromatic Hydrocarbons C8-C10	NA	**8800**	5000 U	5000 U	5000 U	--	5000 U
POLYCHLORINATED BIPHENYLS (µg/kg)							
Aroclor 1260	5.00E+02	--	--	--	--	--	--
Total PCBs	5.00E+02	--	--	--	--	--	--

Table 6-59
AOC A-10 Groundwater Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
VOLATILES (µg/L)						
1,1-Dichloroethane	7.68E+00	1	41	19	9.5	0.2
1,1-Dichloroethene	7.00E+00	0	41	6	0.078	0.043
2-Butanone/MEK	4.80E+03	0	41	3	51	18
4-Methyl-2-pentanone	6.40E+02	0	41	4	120	16
Acetone	7.20E+03	0	41	7	19	1.1
Carbon Disulfide	8.00E+02	0	41	1	1	1
Chloroethane	NA	NA	41	1	0.3	0.3
Chloroform	1.41E+00	1	41	1	5	5
cis-1,2-Dichloroethene	1.60E+01	0	41	37	2.5	0.4
m-&p-Xylenes	1.60E+03	0	44	2	1	0.5
Methylene Chloride	5.00E+00	0	41	1	0.3	0.3
Naphthalene	1.60E+02	0	12	3	0.42	0.08
o-Xylene	1.60E+03	0	44	1	0.2	0.2
Tetrachloroethene	5.00E+00	0	41	6	0.092	0.034
Toluene	6.40E+02	0	44	2	1	0.9
Trichloroethene	5.40E-01	35	41	36	4	0.5
Vinyl Chloride	2.90E-02	12	41	17	0.06	0.023
SEMI-VOLATILES (µg/L)						
2-Methylnaphthalene	3.20E+01	0	12	3	1.5	0.18
Acenaphthene	9.60E+02	0	12	1	0.12	0.12
Dibenzofuran	1.60E+01	0	6	1	0.24	0.24
Fluorene	6.40E+02	0	12	1	0.18	0.18
Phenanthrene	NA	NA	12	4	0.56	0.06
DISSOLVED METALS (mg/L)						
Arsenic	8.00E-03	11	21	20	0.024	0.001
Barium	2.00E+00	0	4	4	0.016	0.007
Calcium	NA	NA	4	4	53.6	24.4
Chromium, Hexavalent	4.80E-02	0	5	1	0.02	0.02
Magnesium	NA	NA	4	4	16.8	8.74
Manganese	2.24E+00	0	4	4	2.05	1.15
Potassium	NA	NA	4	4	7.9	4
Sodium	NA	NA	4	4	49.6	14.9
PETROLEUM HYDROCARBONS (mg/L)						
Diesel-Range Organics	5.00E-01	8	32	12	9.6	0.32
Gasoline-Range Organics	8.00E-01	0	10	1	0.14	0.14
Oil-Range Organics	5.00E-01	11	32	11	35	0.79

Table 6-60
AOC A-10 Groundwater Results- Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample Location:		AGW038				AGW039			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
1,1-Dichloroethane	7.68E+00	**9.5 J**	9/27/1996	**0.5**	6/10/2009	**7.4 J**	9/27/1996	0.5 U	6/9/2015
1,1-Dichloroethene	7.00E+00	**0.061**	6/10/2009	**0.061**	6/10/2009	**0.11**	12/15/2008	0.2 U	6/9/2015
2-Butanone/MEK	4.80E+03	**51**	5/3/1996	5 U	6/10/2009	**26**	5/3/1996	5.0 U	6/9/2015
4-Methyl-2-pentanone	6.40E+02	**120 J**	9/27/1996	5 U	6/10/2009	**78 J**	5/3/1996	5.0 U	6/9/2015
Acetone	7.20E+03	**16 J**	5/3/1996	5 U	6/10/2009	**19 J**	5/3/1996	5.0 U	6/9/2015
Carbon Disulfide	8.00E+02	**1**	5/3/1996	0.2 U	6/10/2009	ND	--	0.5 U	6/9/2015
Chloroethane	NA	**0.3**	3/26/1998	0.2 U	6/10/2009	ND	--	0.5 U	6/9/2015
Chloroform	1.41E+00	**5**	5/3/1996	0.2 U	6/10/2009	ND	--	0.2 U	6/9/2015
cis-1,2-Dichloroethene	1.60E+01	**2.5**	3/19/1997	**1.5**	6/10/2009	**2.1**	3/19/1997	**1.1**	6/9/2015
m-&p-Xylenes	1.60E+03	**0.5**	3/26/1998	0.4 U	6/10/2009	ND	--	0.5 U	6/9/2015
Methylene Chloride	5.00E+00	ND	--	0.5 U	6/10/2009	**0.3**	6/15/2004	0.5 U	6/9/2015
Naphthalene	1.60E+02	**0.42**	5/3/1996	0.1 U	12/12/2004	**0.21**	5/3/1996	0.1 U	12/12/2004
o-Xylene	1.60E+03	**0.2**	3/26/1998	0.2 U	6/10/2009	ND	--	0.5 U	6/9/2015
Tetrachloroethene	5.00E+00	ND	--	0.2 U	6/10/2009	ND	--	0.2 U	6/9/2015
Toluene	6.40E+02	**1 J**	9/27/1996	0.2 U	6/10/2009	ND	--	0.2 U	6/9/2015
Trichloroethene	5.40E-01	**2.8**	2/22/1999	**0.6**	6/10/2009	**2**	12/13/1996	**0.5**	6/9/2015
Vinyl Chloride	2.90E-02	**0.052**	6/10/2009	**0.052**	6/10/2009	**0.06**	6/10/2009	**0.03**	6/9/2015
SEMI-VOLATILES (µg/L)									
2-Methylnaphthalene	3.20E+01	**1.5**	5/3/1996	0.1 U	12/12/2004	**0.57**	5/3/1996	0.1 U	12/12/2004
Acenaphthene	9.60E+02	**0.12**	5/3/1996	0.1 U	12/12/2004	ND	--	0.1 U	12/12/2004
Dibenzofuran	1.60E+01	**0.24 J**	5/3/1996	0.1 U	3/13/2000	ND	--	0.1 U	5/3/1996
Fluorene	6.40E+02	**0.18**	5/3/1996	0.1 U	12/12/2004	ND	--	0.1 U	12/12/2004
Phenanthrene	NA	**0.56 J**	5/3/1996	0.1 U	12/12/2004	**0.13**	5/3/1996	0.1 U	12/12/2004
DISSOLVED METALS (mg/L)									
Arsenic	8.00E-03	**0.024**	9/10/1997	**0.0052**	6/10/2009	**0.014**	12/15/2008	**0.0099**	6/9/2015
Barium	2.00E+00	**0.016**	8/31/1999	**0.007**	3/13/2000	**--**	--	**--**	--
Calcium	NA	**53.6**	8/31/1999	**29.4**	3/13/2000	**--**	--	**--**	--
Chromium, Hexavalent	4.80E-02	**0.02 J**	8/31/1999	0.01 U	3/13/2000	**--**	--	**--**	--
Magnesium	NA	**16.8**	8/31/1999	**10.5**	3/13/2000	**--**	--	**--**	--
Manganese	2.24E+00	**2.05**	8/31/1999	**1.29**	3/13/2000	**--**	--	**--**	--
Potassium	NA	**7.9**	8/31/1999	**4.8**	3/13/2000	**--**	--	**--**	--
Sodium	NA	**49.6**	8/31/1999	**17.7**	3/13/2000	**--**	--	**--**	--
PETROLEUM HYDROCARBONS (mg/L)									
Diesel-Range Organics	5.00E-01	**9.6**	5/3/1996	0.25 U	6/10/2009	**1.4**	6/10/2009	0.095 U	6/13/2013
Gasoline-Range Organics	8.00E-01	ND	--	0.25 U	2/27/2001	**0.14 J**	5/3/1996	0.25 U	2/27/2001
Oil-Range Organics	5.00E-01	**35**	5/3/1996	**1**	6/10/2009	**4.9**	6/10/2009	0.24 U	6/13/2013

Table 6-60
AOC A-10 Groundwater Results- Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

	Sample Location:	AGW040			
Detected Analyte	Screening Level	Max	Date	Most Recent	Date
VOLATILES (µg/L)					
1,1-Dichloroethane	7.68E+00	ND	--	0.5 U	6/9/2015
1,1-Dichloroethene	7.00E+00	**0.094**	12/15/2008	0.2 U	6/9/2015
2-Butanone/MEK	4.80E+03	**18**	5/3/1996	5.0 U	6/9/2015
4-Methyl-2-pentanone	6.40E+02	ND	--	5.0 U	6/9/2015
Acetone	7.20E+03	**8.7 J**	5/3/1996	5.0 U	6/9/2015
Carbon Disulfide	8.00E+02	ND	--	0.5 U	6/9/2015
Chloroethane	NA	ND	--	0.5 U	6/9/2015
Chloroform	1.41E+00	ND	--	0.2 U	6/9/2015
cis-1,2-Dichloroethene	1.60E+01	**1.3**	12/13/1996	**0.6**	6/9/2015
m-&p-Xylenes	1.60E+03	**1**	2/27/2001	0.5 U	6/9/2015
Methylene Chloride	5.00E+00	ND	--	0.5 U	6/9/2015
Naphthalene	1.60E+02	ND	--	0.1 U	12/12/2004
o-Xylene	1.60E+03	ND	--	0.5 U	6/9/2015
Tetrachloroethene	5.00E+00	**0.092**	12/6/2010	**0.034**	6/9/2015
Toluene	6.40E+02	ND	--	0.2 U	6/9/2015
Trichloroethene	5.40E-01	**4**	12/13/1996	**1**	6/9/2015
Vinyl Chloride	2.90E-02	**0.039**	6/10/2009	0.020 U	6/9/2015
SEMI-VOLATILES (µg/L)					
2-Methylnaphthalene	3.20E+01	ND	--	0.1 U	12/12/2004
Acenaphthene	9.60E+02	ND	--	0.1 U	12/12/2004
Dibenzofuran	1.60E+01	ND	--	0.1 U	5/3/1996
Fluorene	6.40E+02	ND	--	0.1 U	12/12/2004
Phenanthrene	NA	ND	--	0.1 U	12/12/2004
DISSOLVED METALS (mg/L)					
Arsenic	8.00E-03	**0.003**	5/3/1996	**0.001**	6/10/2009
Barium	2.00E+00	**--**	--	**--**	--
Calcium	NA	**--**	--	**--**	--
Chromium, Hexavalent	4.80E-02	**--**	--	**--**	--
Magnesium	NA	**--**	--	**--**	--
Manganese	2.24E+00	**--**	--	**--**	--
Potassium	NA	**--**	--	**--**	--
Sodium	NA	**--**	--	**--**	--
PETROLEUM HYDROCARBONS (mg/L)					
Diesel-Range Organics	5.00E-01	ND	--	0.097 U	6/13/2013
Gasoline-Range Organics	8.00E-01	ND	--	0.25 U	2/27/2001
Oil-Range Organics	5.00E-01	ND	--	0.24 U	6/13/2013

Table 6-61
AOC A-12 Soil Statistics
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Screening Level	# of Screening Level Exceedances	# of Results	# of Detects	Max of Detected Results	Min of Detected Results
PETROLEUM HYDROCARBONS (mg/kg)						
Oil-Range Organics	2,000 (b)	0	2	2	21	17

Table 6-62
AOC A-12 Soil Results - Detects
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level	ASB0151-12 5/6/2004	ASB0151-15 5/6/2004	ASB0152-12 5/6/2004	ASB0152-15 5/6/2004
PETROLEUM HYDROCARBONS (mg/kg)					
Oil-Range Organics	2,000 (a)	--	**21**	--	**17**

Table 7-1
Interim Remedial Action Groundwater Data Summary
Boeing Auburn Remedial Investigation
Auburn, Washington

		Volatile Organic Compounds						Aquifer Redox Conditions					Donor Indicators	
Well	Date	PCE (µg/L)	TCE (µg/L)	cDCE (µg/L)	VC (µg/L)	Ethene (µg/L)	Ethane (µg/L)	DO (mg/L)	ORP (mV)	Iron (mg/L)	Sulfate (mg/L)	Methane (µg/L)	TOC (mg/L)	pH
Source Area Wells														
AGW002	2/18/1999	0.4	2.4	4.4	6.1	--	--	--	--	--	--	--	--	--
	8/31/1999	<1	1.8	1.4	6.3	--	--	--	--	--	--	--	--	--
	3/15/2000	<1	2.7	2.8	8.5	--	--	--	--	--	--	--	--	--
	11/9/2000	0.2	4.9	2.2	4.7	--	--	--	--	--	--	--	--	--
	5/22/2001	0.3	5.2	2.1	1.9	--	--	--	--	--	--	--	--	--
	11/6/2001	0.3	6.5	3.1	1.9	--	--	--	--	--	--	--	--	--
	5/21/2002	0.2	5.9	5.5	5.5	--	--	--	--	--	--	--	--	--
	11/23/2002	<0.4	7.1	2.9	3.3	--	--	--	--	--	--	--	--	--
	5/23/2003	<0.6	7.3	4.4	3.4	--	--	--	--	--	--	--	--	--
	12/19/2003	0.3	7.5	2.1	2.2	--	--	--	349.0	1.0	49.0	--	1.8	--
	6/17/2004	<0.6	7.0	5.0	3.5	<0.5	<0.5	0.00	13.0	3.8	36.8	0.6	10.1	6.4
	8/30/2004	<0.6	1.6	3.9	1.5	<0.5	<0.5	0.35	-105.0	4.2	1.1	420.0	1950.0	5.9
	10/4/2004	<1.0	1.6	6.6	1.1	<0.5	<0.5	0.23	39.7	4.4	10.1	510.0	2020.0	6.3
	11/1/2004	<1.0	1.3	10.0	2.7	<0.5	<0.5	1.48	36.5	5.2	0.6	140.0	678.0	6.5
	12/8/2004	<1.0	<1.0	7.6	1.2	<0.5	<0.5	5.37	21.1	3.4	0.1	4200.0	194.0	7.0
	1/3/2005	<0.2	0.6	7.6	1.6	<0.5	<0.5	0.00	17.3	4.2	16.5	610.0	70.0	7.1
	2/10/2005	<0.2	0.4	6.0	2.3	<0.5	<0.5	0.00	15.7	3.5	1.5	4000.0	67.6	7.1
	3/7/2005	<0.2	0.4	5.1	2.4	<0.5	<0.5	0.00	17.1	4.4	2.7	4100.0	67.4	6.8
	4/4/2005	<0.2	0.2	4.6	1.8	<0.5	<0.5	0.00	17.8	3.9	3.5	870.0	99.8	6.7
	5/3/2005	<0.2	0.3	4.4	2.1	<0.5	<0.5	0.00	8.2	3.5	7.4	1700.0	116.0	7.2
	6/1/2005	<0.2	0.4	5.0	3.0	<0.5	<0.5	0.00	15.0	7.0	9.4	2700.0	80.0	6.9
	7/5/2005	<0.2	0.5	4.6	3.4	<0.5	<0.5	0.00	9.9	6.0	30.6	8900.0	40.6	6.9
	8/9/2005	<0.2	0.6	4.8	3.4	<0.5	<0.5	0.00	17.5	4.8	44.1	1400.0	10.2	7.1
	9/7/2005	<0.2	0.6	5.5	3.0	<0.5	<0.5	0.0	19.3	4.4	51.8	570.0	34.2	6.9
	10/3/2005	<0.2	0.4	4.2	3.7	<0.5	<0.5	0.0	-1.4	4.5	65.8	400.0	38.8	5.1
	11/8/2005	<0.2	0.4	3.3	2.8	<0.5	<0.5	0.1	23.9	8.6	69.6	1600.0	36.6	6.6
	12/6/2005	<0.2	0.4	3.0	3.2	<11.4	<12.3	0.9	145.9	6.0	4.6	6550.0	43.6	6.8
	1/10/2006	<0.2	<0.2	2.8	1.7	<11.4	<12.3	0.0	23.1	6.2	0.7	13500.0	49.2	7.2
	2/2/2006	<0.2	0.2	2.5	3.0	<11.4	<12.3	0.0	28.5	6.6	4.7	15200.0	50.8	7.5
AGW002R	10/2/2006	<0.2	3.6	2.6	0.5	<1.1	<1.2	4.8	--	3.5	66.9	4980.0	86.0	6.9
	1/23/2007	<0.2	0.3	2.1	0.6	<1.1	<1.2	0.4	-43.2	7.0	0.3	12200.0	298.0	6.5
	4/3/2007	<0.2	<0.2	1.6	0.6	<1.1	<1.2	0.2	-82.4	3.0	0.8	14600.0	216.0	6.7
	6/12/2007	<0.2	<0.2	1.3	0.3	<1.1	<1.2	0.1	-155.3	4.0	1.1	10500.0	134.0	6.4
	9/12/2007	<0.2	<0.2	1.1	<0.2	<1.1	<1.2	5.7	-109.8	4.6	1.7	3270.0	92.8	6.7
	12/11/2007	<0.2	<0.2	1.1	0.3	<1.1	<1.2	0.0	-157.0	5.0	1.3	9560.0	64.4	6.7
	3/12/2008	<0.2	<0.2	0.9	0.3	<1.1	<1.2	1.9	-156.2	3.6	0.4	14500.0	48.7	6.5
	6/3/2008	< 0.2	< 0.2	0.8	0.2	<1.1	<1.2	1.3	-454.3	3.2	0.7	13700.0	38.9	6.5
	9/4/2008	<0.2	<0.2	0.8	<0.2	<1.1	<1.2	4.6	-37.5	3.6	17.6	3640.0	32.8	6.5
	12/10/2008	<0.2	<0.2	0.6	<0.2	<1.1	<1.2	1.2	-144.8	3.4	0.2	15100.0	36.6	6.4
	3/11/2009	<0.2	<0.2	0.7	<0.020	<1.1	<1.2	0.0	-157.2	3.8	2.8	20900.0	26.0	6.6
	6/3/2009	<0.2	<0.2	0.7	0.3	<1.1	<1.2	0.2	-142.2	5.8	0.2	16400.0	14.4	6.4
	12/1/2009	<0.020	<0.2	0.6	0.1	<1.1	<1.2	1.8	-78.6	1.9	0.3	24700.0	20.0	7.6
	6/8/2010	<0.02	<0.2	0.5	0.12	<1.1	<1.2	0.7	-95.9	4.0	0.2	18400.0	18.6	6.4

Table 7-1
Interim Remedial Action Groundwater Data Summary
Boeing Auburn Remedial Investigation
Auburn, Washington

		Volatile Organic Compounds						Aquifer Redox Conditions					Donor Indicators	
Well	Date	PCE (µg/L)	TCE (µg/L)	cDCE (µg/L)	VC (µg/L)	Ethene (µg/L)	Ethane (µg/L)	DO (mg/L)	ORP (mV)	Iron (mg/L)	Sulfate (mg/L)	Methane (µg/L)	TOC (mg/L)	pH
	12/9/2010	<0.02	<0.2	0.5	0.11	<1.1	<1.2	1.7	22.9	3.8	0.2	20000.0	15.3	6.9
	6/28/2011	<0.02	<0.2	0.4	0.1	<1.1	<1.2	0.29	-105.8	2.8	0.8	2870.0	11.2	6.23
	12/14/2011	<0.02	<0.2	0.3	0.076	<1.1	<1.2	0.11	-24.1	1.8	<0.1	3040.0	13.3	6.55
	6/19/2012	<0.027	<0.2	0.4	0.06	<5.0	<5.0	0.27	-52.2	6	<1.0	10000.0	6.9	6.26
	12/3/2012	<0.02	<0.2	0.4	0.067	<1.0	<5.0	1.42	-65	6.5	<1.0	26000.0	6.0	5.93
	6/10/2013	<0.02	<0.2	0.4	0.055	<1.0	<2.0	0.46	72.3	5	<1.0	18000.0	4.4	6.62
	12/5/2013	<0.02	<0.2	0.3	0.066	<5	<5	1.91	132.2	2.2	<1	16000.0	5.5	6.68
	6/2/2014	<0.2	<0.2	0.3	0.051	<1.0	<1.0	1.17	-56.38	5.2	<1.0	18000.0	5.1	6.39
	12/9/2014	<0.2	<0.2	0.3	0.050	<5.0	<5.0	0.93	-84.9	5	<1.0	16000.0	3.3	6.44
	6/2/2015	<0.2	<0.2	0.3	0.054	<5.0	<5.0	--	-98.0	2.3	<1.0	13000.0	3.3	6.06
	12/3/2015	<0.2	<0.2	0.3	0.066	<1.0	<1.0	0.41	-95.4	2.0	1.4	13000.0	2.9	6.50
AGW106	6/17/2004	<1.0	120	17	<1.0	<0.5	<0.5	0.64	28.3	0.0	23.1	4.7	<1.50	6.10
	8/30/2004	<1.0	42	9.3	<1.0	<0.5	<0.5	0.60	-71	4.4	1.4	<0.5	570	6.28
	10/5/2004	<1.0	<1.0	51	<1.0	<0.5	<0.5	0.00	29.4	5.4	2.1	57	312	6.53
	11/1/2004	<1.0	<1.0	18	<1.0	<0.5	<0.5	0.00	22.3	5.0	0.3	24	162	6.70
	12/8/2004	<1.0	<1.0	8.6	<1.0	<0.5	<0.5	1.91	19.9	3.6	<0.1	4100	32.2	6.93
	1/3/2005	<0.4	0.8	24	<0.4	<0.5	<0.5	0.00	20.6	4.6	<0.2	1700	32.3	6.84
	2/7/2005	<1.0	<1.0	27	2.2	<0.5	<0.5	0.00	37.5	4.2	<0.5	9400	548	6.68
	3/7/2005	<1.0	<1.0	83	45	<0.5	<0.5	0.00	38.7	5.2	<0.5	6200	1000	6.44
	4/4/2005	<1.0	<1.0	16	13	<0.5	<0.5	0.00	32.2	3.6	<0.1	4400	338	6.50
	5/3/2005	<1.0	<1.0	8.0	2.7	<0.5	<0.5	0.00	33.8	4.9	<0.1	6900	164	6.88
	6/1/2005	<1.0	1.3	8.0	4.6	<0.5	<0.5	0.00	33.8	7.2	<0.1	3800	74.8	6.52
	7/5/2005	<0.2	0.7	4.3	2.6	<0.5	<0.5	0.00	30.4	5.6	<0.1	2700	14.7	6.46
	8/9/2005	<0.2	0.8	4.0	2.1	<0.5	<0.5	0.00	30.5	5.9	<1.0	2800	17.0	7.73
	9/8/2005	<0.2	1.0	4.0	1.1	<0.5	<0.5	0.00	47.8	6.8	0.4	720	16.2	5.80
	10/3/2005	<0.2	0.5	4.2	1.2	<0.5	<0.5	0.29	20.2	4.0	0.2	680	12.2	4.86
	11/8/2005	<0.2	1.0	3.4	0.8	<0.5	<0.5	0.29	46.4	3.4	0.1	1400	925	6.31
	12/5/2005	<0.2	1.0	4.9	0.3	<11.4	<12.3	--	300	4.0	<0.1	5430	1080	6.23
	1/9/2006	<0.2	0.5	5.0	0.6	<11.4	<12.3	0.29	41.3	10+	<0.1	13300	490	6.69
	2/1/2006	<1.0	<1.0	3.1	<1.0	<11.4	<12.3	0.00	50.0	10.0	<0.5	14600	285	6.89
AGW106R	10/2/2006	<0.2	<0.2	0.5	<0.2	<1.1	<1.2	6.17	--	1.5	3.2	8120	4.63	6.12
	1/23/2007	<0.2	0.2	0.5	<0.2	<1.1	<1.2	0.77	-8.7	7.3	10.1	8690	5.60	6.10
	4/3/2007	<0.2	0.3	0.6	0.046	<1.1	<1.2	0.35	-24.2	4.2	9.6	19500	2.76	6.23
	6/12/2007	<0.2	0.2	0.6	<0.2	<1.1	<1.2	0.48	-401.6	6.1	5.6	18500	3.10	5.99
	9/12/2007	<0.2	<0.2	0.5	<0.2	<1.1	<1.2	0.45	-414.9	6.8	1.2	28600	3.18	5.96
	12/11/2007	<0.2	0.2	0.4	<0.2	<1.1	<1.2	3.16	-164.8	3.8	3.1	15900	2.29	6.10
	3/12/2008	<0.2	0.4	0.4	<0.2	<1.1	<1.2	0.01	-241.6	--	10.8	7220	1.82	6.49
	6/4/2008	< 0.2	0.4	0.4	< 0.2	<1.1	<1.2	--	-290.6	2.4	12.3	10200	1.56	6.70
	9/4/2008	<0.2	0.3	0.4	<0.2	<1.1	<1.2	0.02	-246.2	4.2	11.4	7680	<1.5	6.33
	12/10/2008	<0.2	0.3	0.4	<0.2	<1.1	<1.2	0.24	-59.9	4.0	10.5	7720	<1.5	6.30
	3/11/2009	<0.2	<0.2	0.6	<0.020	<1.1	<1.2	0.04	-171.2	4.2	8.4	7760	2.2	6.52
	6/3/2009	<0.2	<0.2	0.5	<0.020	<1.1	<1.2	1.09	-219.2	4.4	10.2	3650	<1.5	6.52
	11/30/2009	<0.2	0.5	5.0	0.6	<11.4	<12.3	0.29	41.3	10+	<0.1	13300	2.1	6.69
	6/8/2010	<0.02	<0.2	0.4	<0.02	<1.1	<1.2	0.89	-33.9	3.8	12.7	1910	<1.5	7.67

Table 7-1
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Boeing Auburn Remedial Investigation
Auburn, Washington

		Volatile Organic Compounds						Aquifer Redox Conditions					Donor Indicators	
Well	Date	PCE (µg/L)	TCE (µg/L)	cDCE (µg/L)	VC (µg/L)	Ethene (µg/L)	Ethane (µg/L)	DO (mg/L)	ORP (mV)	Iron (mg/L)	Sulfate (mg/L)	Methane (µg/L)	TOC (mg/L)	pH
	12/9/2010	<0.02	0.2	0.3	<0.02	<1.1	<1.2	1.70	22.87	3.8	12.5	2000	1.8	6.90
	6/28/2011	<0.02	0.2	0.3	<0.02	<1.1	<1.2	0.42	-51	4	14.7	2560	1.8	6.45
	12/14/2011	<0.2	<0.2	0.2	<0.2	<1.1	<1.2	0.43	30.2	2	9.1	1270	<1.5	6.61
	6/19/2012	<0.02	0.3	0.2	<0.02	<5.0	<5.0	0.24	-5.3	4	13.7	1800	<1.0	6.34
	12/3/2012	<0.2	0.3	<0.2	<0.2	<1.0	<1.0	1.43	44.6	4.8	12.7	1900	<1.0	6.17
	6/10/2013	<0.02	0.3	<0.2	<0.02	<1.0	<1.0	0.29	-1.5	4	12.8	1900	<1.0	6.44
	12/5/2013	<0.2	0.2	0.2	<0.2	<1	<1	1.97	130.4	2.4	13	1100	--	6.72
	6/2/2014	<0.2	0.3	0.2	<0.02	<1.0	<1.0	1	-3.9	3.8	11.6	1600	1.4	6.33
	12/9/2014	<0.2	0.2	<0.2	<0.2	<5.0	<5.0	0.66	-23.1	6	11.2	1600	<1.0	6.42
	6/2/2015	<0.2	0.2	<0.2	<0.02	<5.0	<5.0	--	-8.8	2.5	13.8	580	<1.0	5.66
	12/3/2015	<0.2	<0.2	<0.2	<0.2	<1.0	<1.0	0.44	-27.4	--	10.2	930	<1.0	6.43
AGW110	6/17/2004	<1.0	94	22	<1.0	<0.5	<0.5	0.00	6.18	0.0	23.5	0.95	<1.50	5.91
	8/31/2004	<2.0	18	50	<2.0	<0.5	<0.5	1.2/0.07	-154	3.6	2.8	<0.5	199	6.55
	10/5/2004	<1.0	<1.0	69	<1.0	<0.5	<0.5	0.00	23.3	4.5	6.9	7.4	248	6.64
	11/2/2004	<1.0	<1.0	110	4.3	<0.5	<0.5	0.00	25.8	4.2	0.6	280	207	6.64
	12/9/2004	<2.0	<2.0	95	4.9	<0.5	<0.5	0.71	27.0	2.7	0.2	2000	69.2	6.91
	1/4/2005	<1.0	<1.0	91	3.4	<0.5	<0.5	0.00	20.4	3.5	<0.1	1200	22.8	6.85
	2/9/2005	<1.0	<1.0	73	10	<0.5	<0.5	0.00	24.2	4.6	0.1	6800	78.0	6.92
	3/8/2005	<1.0	<1.0	75	17	<0.5	<0.5	0.00	25.7	6.0	<0.2	2900	542	7.03
	4/6/2005	<1.0	<1.0	64	29	<0.5	<0.5	0.00	22.5	4.5	<0.1	2000	358	7.31
	5/4/2005	<1.0	<1.0	35	40	<0.5	<0.5	0.00	23.9	4.8	<0.2	1700	261	6.86
	6/2/2005	<0.2	<0.2	16	49	<0.5	<0.5	0.00	21.3	6.8	0.1	770	67.2	6.47
	7/6/2005	<0.2	<0.2	5.5	45	<0.5	<0.5	0.00	26.3	6.4	<0.1	1000	26.8	6.32
	8/11/2005	<0.2	<0.2	1.5	13	<0.5	<0.5	0.00	26.2	7.0	<0.1	990	27.2	6.72
	9/8/2005	<0.2	<0.2	1.0	3.7	<0.5	<0.5	0.00	36.8	5.8	<0.1	840	24.9	6.29
	10/4/2005	<0.2	<0.2	0.6	1.9	<0.5	<0.5	1.10	12.5	3.0	<0.1	640	20.8	6.69
	11/9/2005	<0.2	<0.2	0.5	1.2	<0.5	<0.5	0.00	27.7	8.2	<0.1	2900	88.8	6.79
	12/5/2005	<2.0	<2.0	<2.0	<2.0	<11.4	<12.3	1.20	286	4.5	<0.1	10200	558	6.49
	1/10/2006	<1.0	<1.0	1.0	<1.0	<11.4	<12.3	0.00	30.0	9.4	0.1	15200	716	6.89
	2/3/2006	<0.2	0.2	1.1	1.2	<11.4	<12.3	0.00	32.2	6.8	0.1	17500	564	7.13
AGW110R	10/2/2006	<0.2	0.5	0.4	0.3	<1.1	<1.2	5.96	--	3.0	9.1	5950	17.1	6.89
	1/23/2007	<0.2	0.3	0.3	0.4	2.6	<1.2	0.53	-43.9	6.9	6.1	16000	22.7	6.53
	4/3/2007	<0.2	0.3	0.4	0.39	3.6	<1.2	1.67	-40.8	1.5	4.5	15300	20.4	6.76
	6/12/2007	<0.2	0.3	0.2	0.3	3.3	<1.2	0.69	-138.5	4.8	4.3	13800	24.5	6.46
	9/12/2007	<0.2	0.3	<0.2	<0.2	1.8	<1.2	1.11	-104.9	3.8	2.6	13500	20.1	6.59
	12/11/2007	<0.2	0.3	0.2	0.2	<1.1	<1.2	0.01	-123.8	7.4	1.1	18000	17.2	6.59
	3/12/2008	<0.2	0.4	<0.2	0.2	<1.1	<1.2	0.01	-129.9	4.4	1.6	17500	15.4	6.66
	6/3/2008	< 0.2	0.3	< 0.2	< 0.2	1.3	<1.2	0.86	-455.3	3.2	0.8	18100	14.4	6.41
	9/4/2008	<0.2	0.3	<0.2	<0.2	<1.1	<1.2	3.45	-28.7	2.0	14.5	13700	16.0	6.39
	12/10/2008	<0.2	0.3	<0.2	<0.2	<1.1	<1.2	0.45	-109.4	2.2	<0.1	4080	14.1	6.46
	3/11/2009	<0.2	0.4	0.2	0.18	<1.1	<1.2	0.00	-111.0	4.2	0.1	25700	12.2	6.70
	6/3/2009	<0.2	0.3	<0.2	0.24	<1.1	<1.2	0.04	-308.0	5.0	<0.1	19600	11.8	6.63
	12/1/2009	<0.020	0.2	<0.2	0.12	<1.1	<1.2	1.10	-50.7	--	<0.1	22000	14.8	2.56
	6/8/2010	<0.02	<0.2	<0.2	0.12	<1.1	<1.2	0.52	-75.2	3.8	<0.1	17000	7.76	6.57

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Auburn, Washington

		Volatile Organic Compounds						Aquifer Redox Conditions					Donor Indicators	
Well	Date	PCE (µg/L)	TCE (µg/L)	cDCE (µg/L)	VC (µg/L)	Ethene (µg/L)	Ethane (µg/L)	DO (mg/L)	ORP (mV)	Iron (mg/L)	Sulfate (mg/L)	Methane (µg/L)	TOC (mg/L)	pH
	12/9/2010	<0.02	<0.2	<0.2	0.072	<1.1	<1.2	--	-62.9	1.8	0.2	3410	7.22	6.48
	6/28/2011	<0.02	<0.2	<0.2	0.15	<1.1	<1.2	0.13	-97.8	3.8	1.2	17500	7.5	6.48
	12/14/2011	<0.02	<0.2	<0.2	0.1	<1.1	<1.2	0.36	-107.9	4	<0.1	10400	7.32	6.61
	6/19/2012	<0.02	<0.2	<0.2	0.11	<5.0	<5.0	0.19	-70	5	<1.0	12000	5.4	6.49
	12/3/2012	<0.02	<0.2	<0.2	0.086	<1.0	3	1.36	48.7	3.2	<1.0	11000	3.4	6.29
	6/3/2013	<0.02	<0.2	<0.2	0.13	<1.0	1.2	0.24	122.4	3.5	<1.0	10000	4	6.54
	12/5/2013	<0.02	<0.2	<0.2	0.093	<1	2.2	1.85	134.8	3.4	<1	7200	3.6	6.87
	6/2/2014	<0.2	<0.2	<0.2	0.11	<1.0	<1.0	1.29	-44.1	5	4.6	5800	4.6	6.55
	12/9/2014	<0.2	<0.2	<0.2	0.11	<5.0	<5.0	0.87	-85.8	--	<1.0	8400	1.8	6.61
	6/2/2015	<0.2	<0.2	<0.2	0.092	<5.0	<5.0	--	-105.3	2.7	<1.0	9400	2.6	6.49
	12/3/2015	<0.2	<0.2	<0.2	0.11	<1.0	<1.0	0.37	-97.6	2	<1.0	7500	1.9	6.61
Downgradient or Crossgradient Wells														
AGW006	6/28/1994		9.4	14		--	--	--	--	--	--	--	--	--
	7/26/1994		6.2	7.4		--	--	--	--	--	--	--	--	--
	9/22/1994		12	13		--	--	--	--	--	--	--	--	--
	3/22/1995		19	19		--	--	--	--	--	--	--	--	--
	12/7/1995	<1	7.9	11	<2	--	--	--	--	--	--	--	--	--
	3/26/1996	<1	14	15	<2	--	--	--	--	--	--	--	--	--
	6/19/1996	<1	12	12	<2	--	--	--	--	--	--	--	--	--
	9/26/1996	<1	12	15	<2	--	--	--	--	--	--	--	--	--
	12/18/1996	<1	15	17	<2	--	--	--	--	--	--	--	--	--
	3/13/1997	<1	12	11	<2	--	--	--	--	--	--	--	--	--
	12/21/2003	0.4	7.1	3	<0.2	--	--	--	--	--	--	--	--	--
	3/1/2004	0.3	8	2.8	<0.02	--	--	--	--	--	--	--	--	--
	6/14/2004	0.2	4.4	1.6	<0.02	--	--	--	--	--	--	--	--	--
	8/18/2004	<0.2	1.3	0.3	<0.02	--	--	--	--	--	--	--	--	--
	12/9/2004	0.2	5	4.9	0.03	--	--	--	--	--	--	--	--	--
AGW006R	4/2/2007	<0.2	1.1	1.1	0.16	--	--	1.02	-8.0	--	--	--	--	6.45
	6/11/2007	<0.2	0.5	0.5	<0.2	--	--	1.86	5.5	--	--	--	--	5.92
	9/11/2007	<0.2	0.8	0.4	<0.2	--	--	1.87	189.9	--	--	--	--	5.87
	12/12/2007	<0.2	2.0	1.4	<0.2	--	--	0.80	12.8	--	--	--	--	6.24
	3/13/2008	<0.2	1.4	1.0	<0.2	--	--	0.71	23.0	--	--	--	--	5.91
	6/4/2008	<0.2	1.0	0.9	<0.2	--	--	505.44	-136.5	--	--	--	--	6.27
	9/3/2008	<0.2	0.6	0.3	<0.2	--	--	-0.02	-187.4	--	--	--	--	5.61
	12/9/2008	<0.2	1.7	1.4	<0.2	--	--	0.21	119.0	--	--	--	--	6.11
	3/10/2009	<0.2	1.0	1.1	0.072	--	--	0.07	108.4	--	--	--	--	6.21
	6/2/2009	<0.2	0.9	0.9	0.087	--	--	0.00	-322.0	--	--	--	--	6.10
	11/30/2009	0.066	1.4	0.9	0.031	--	--	3.82	9.8	--	--	--	--	7.48
	6/7/2010	0.056	0.9	1	0.069	--	--	--	--	--	--	--	--	--
	12/10/2010	0.049	1.3	1.4	0.062	--	--	--	--	--	--	--	--	--
	6/24/2011	<0.02	< 0.2	< 0.2	< 0.02	--	--	0.49	94.6	--	--	--	--	6.37
	12/19/2011	0.032	1	1.5	0.05	--	--	0.23	84.0	--	--	--	--	6.21
	6/13/2012	<0.02	0.3	0.2	< 0.02	--	--	13.41	117.6	--	--	--	--	5.66

Table 7-1
Interim Remedial Action Groundwater Data Summary
Boeing Auburn Remedial Investigation
Auburn, Washington

		Volatile Organic Compounds						Aquifer Redox Conditions					Donor Indicators	
Well	Date	PCE (µg/L)	TCE (µg/L)	cDCE (µg/L)	VC (µg/L)	Ethene (µg/L)	Ethane (µg/L)	DO (mg/L)	ORP (mV)	Iron (mg/L)	Sulfate (mg/L)	Methane (µg/L)	TOC (mg/L)	pH
	12/7/2012	0.036	0.9	1.6	0.099	--	--	0.24	91.9	--	--	--	--	6.21
	6/3/2013	<0.02	0.2	0.3	0.027	--	--	0.27	114.1	--	--	--	--	5.74
	12/6/2013	0.029	0.7	1.6	0.12	--	--	1.96	162.1	--	--	--	--	6.36
	5/30/2014	< 0.2	< 0.2	0.4	0.027	--	--	0.98	-262.0	--	--	--	--	7.46
	12/10/2014	< 0.2	0.5	1.4	0.12	--	--	2.39	70.8	--	--	--	--	6.35
	6/1/2015	< 0.2	< 0.2	0.2	< 0.020	--	--	0.62	168.7	--	--	--	--	6.03
	12/1/2015	< 0.2	0.5	1.2	0.1	--	--	0.27	82.6	--	--	--	--	6.36
AGW053	6/16/2004	0.2	4.5	<0.2	<0.2	<0.5	<0.5	0.05	37.9	0.0	25.7	<0.5	<1.50	5.46
	11/3/2004	0.2	6.8	0.6	<0.2	<0.5	<0.5	0.81	42.5	0.0	19.4	<0.5	<1.50	6.32
	12/9/2004	0.2	5.8	0.6	<0.2	<0.5	<0.5	0.68	41.5	0.0	16.0	5.1	<1.50	6.38
	2/9/2005	0.3	5.6	0.5	<0.2	<0.5	<0.5	0.00	35.7	--	18.6	0.75	<1.50	6.38
	5/4/2005	0.2	4.5	0.8	<0.2	<0.5	<0.5	0.00	38.7	0.0	24.4	12	<1.50	6.27
	8/11/2005	0.2	4.6	1.1	<0.2	<0.5	<0.5	0.00	45.7	0.0	26.4	1.5	<1.50	6.20
	11/10/2005	0.2	5.7	0.9	<0.2	<0.5	<0.5	3.81	55.6	0.0	24.5	<0.5	<1.50	6.18
	2/6/2006	0.3	4.5	0.4	<0.2	<11.4	<12.3	2.10	51.7	0.0	24.5	64.4	<1.50	6.50
AGW053R	10/2/2006	0.2	4.0	0.3	<0.2	<1.1	<1.2	1.48	--	0.0	44.8	15.1	3.45	7.10
	1/23/2007	0.3	2.6	0.2	<0.2	<1.1	<1.2	1.19	-5.6	0.2	38.6	69.5	1.74	6.21
	4/3/2007	0.3	2.7	0.2	0.16	<1.1	<1.2	0.74	7.0	0.0	39.7	137	<1.50	6.32
	6/12/2007	0.3	2.8	0.2	0.3	<1.1	<1.2	0.64	3.1	0.0	33.7	265	<1.50	6.14
	9/12/2007	0.2	3.6	0.5	<0.2	<1.1	<1.2	1.08	162.7	0.0	47.4	167	2.04	6.35
	12/11/2007	0.3	3.9	1.5	0.2	<1.1	<1.2	2.32	28.2	0.6	45.0	565	2.10	6.16
	3/12/2008	0.3	3.7	0.6	<0.2	<1.1	<1.2	0.01	-7.3	0.4	32.9	316	<1.50	6.38
	6/3/2008	0.3	3.0	0.4	< 0.2	<1.1	<1.2	540.97	-125.1	0.0	27.9	277	<1.50	6.60
	9/4/2008	0.2	3.1	0.6	<0.2	<1.1	<1.2	0.01	-193.0	0.0	37.3	172	<1.50	6.18
	12/10/2008	0.2	3.0	0.6	<0.2	<1.1	<1.2	0.21	91.8	0.8	31.7	448	<1.50	6.19
	3/11/2009	0.3	2.9	0.5	0.058	<1.1	<1.2	0.07	80.1	0.0	26.1	365	2.01	6.41
	6/3/2009	0.3	3.0	0.4	0.2	<1.1	<1.2	0.00	-316.0	0.0	23.6	199	<1.50	6.41
	12/1/2009	0.21	2.5	0.9	0.057	--	--	1.30	18.0	--	--	--	--	6.78
	6/8/2010	0.25	2.4	0.6	< 0.02	--	--	--	--	--	--	--	--	--
	12/9/2010	0.2	2	0.4	< 0.02	--	--	--	--	--	--	--	--	--
	6/28/2011	0.2	1.7	0.4	< 0.02	--	--	0.82	69.0	--	--	--	--	6.67
	12/14/2011	0.22	1.6	0.3	< 0.02	--	--	0.10	47.4	--	--	--	--	6.16
	6/19/2012	0.3	1.7	0.4	0.025	--	--	0.40	185.0	--	--	--	--	6.21
	12/3/2012	0.057	1.2	0.2	< 0.02	--	--	4.79	215.0	--	--	--	--	5.97
	12/5/2013	0.21	1.5	0.4	0.043	--	--	2.19	141.5	--	--	--	--	6.73
	6/2/2014	0.3	1.3	0.2	< 0.02	--	--	2.11	141.8	--	--	--	--	6.23
	12/9/2014	0.2	1.3	0.3	< 0.02	--	--	0.47	57.8	--	--	--	--	6.31
	6/2/2015	0.2	2	1.1	0.027	--	--	--	94.3	--	--	--	--	5.41
	12/3/2015	0.22	1.7	0.6	0.031	--	--	0.32	68.2	--	--	--	--	6.34
AGW055	10/30/1996	<1	8.4	5.9	<2	--	--	--	--	--	--	--	--	--
	12/18/1996	<1	11	11	<2	--	--	--	--	--	--	--	--	--
	3/13/1997	<1	13	11	<2	--	--	--	--	--	--	--	--	--
	12/21/2003	0.4	4	0.8	<0.2	--	--	--	--	--	--	--	--	--
	8/11/2005	0.3	4.1	4.8	0.3	--	--	--	--	--	--	--	--	--

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		Volatile Organic Compounds						Aquifer Redox Conditions					Donor Indicators	
Well	Date	PCE (µg/L)	TCE (µg/L)	cDCE (µg/L)	VC (µg/L)	Ethene (µg/L)	Ethane (µg/L)	DO (mg/L)	ORP (mV)	Iron (mg/L)	Sulfate (mg/L)	Methane (µg/L)	TOC (mg/L)	pH
	12/1/2005	0.2	2.6	1.8	0.11	--	--	--	--	--	--	--	--	--
AGW055R	4/2/2007	<0.2	1.8	1.9	0.29	--	--	1.90	-18.1	--	--	--	--	6.65
	6/11/2007	<0.2	2.5	3.0	0.3	--	--	0.39	22.0	--	--	--	--	6.25
	9/11/2007	<0.2	1.2	1.5	<0.2	--	--	2.15	-463.6	--	--	--	--	6.51
	12/12/2007	<0.2	0.8	1.0	<0.2	--	--	0.01	-143.2	--	--	--	--	6.73
	3/13/2008	<0.2	1.5	1.8	<0.2	--	--	0.01	-136.5	--	--	--	--	6.67
	6/4/2008	<0.2	1.5	2.3	0.2	--	--	1.67	-452.9	--	--	--	--	6.45
	9/3/2008	<0.2	1.2	1.8	<0.2	--	--	1.14	-96.7	--	--	--	--	6.41
	12/9/2008	<0.2	1.1	1.4	<0.2	--	--	2.09	-81.9	--	--	--	--	6.25
	3/10/2009	<0.2	1.4	2.3	0.34	--	--	0.01	-97.4	--	--	--	--	6.61
	6/2/2009	<0.2	1.2	1.9	0.3	--	--	0.15	-102.7	--	--	--	--	6.67
	11/30/2009	<0.020	0.7	0.8	0.038	--	--	2.91	-5.3	--	--	--	--	7.58
	6/7/2010	< 0.02	0.8	1.6	0.2	--	--	--	--	--	--	--	--	--
	12/10/2010	< 0.02	0.7	1.2	0.097	--	--	--	--	--	--	--	--	--
	6/24/2011	< 0.02	0.6	1.5	0.2	--	--	0.63	7.4	--	--	--	--	7.22
	12/19/2011	< 0.02	0.7	1.4	0.1	--	--	0.13	-10.7	--	--	--	--	6.60
	6/13/2012	< 0.02	0.7	1.5	0.16	--	--	0.11	9.9	--	--	--	--	6.32
	12/7/2012	< 0.02	0.6	1.1	0.066	--	--	0.07	1.2	--	--	--	--	6.55
	6/3/2013	< 0.02	0.6	1.4	0.18	--	--	0.19	106.0	--	--	--	--	6.53
	12/6/2013	< 0.02	0.7	1.5	0.12	--	--	2.26	160.9	--	--	--	--	6.65
	5/30/2014	< 0.2	0.6	1.5	0.16	--	--	0.47	-302.4	--	--	--	--	7.23
	12/10/2014	< 0.2	0.5	0.9	0.064	--	--	1.50	-13.3	--	--	--	--	6.63
	6/1/2015	< 0.2	0.5	1.7	0.15	--	--	0.27	129.0	--	--	--	--	6.45
	12/1/2015	< 0.2	0.5	0.7	0.051	--	--	0.30	-33.2	--	--	--	--	6.67
AGW066	2/10/2005	<0.2	12	3.4	<0.2	--	--	0.00	50.2	--	--	--	--	5.92
	5/3/2005	<0.2	11	4.1	<0.2	<0.5	<0.5	0.00	53.8	3.8	23.8	29	<1.50	6.28
	8/12/2005	<0.2	13	4.9	<0.2	<0.5	<0.5	1.93	45.8	3.0	31.2	83	<1.50	5.96
	11/9/2005	<0.2	12	4.3	<0.2	<0.5	<0.5	0.00	62.1	6.0	42.2	110	<1.50	5.65
	12/1/2005	<0.2	13	4.6	<0.2	--	--	0.92	197	--	--	--	--	6.18
	2/3/2006	<0.2	12	4.2	<0.2	<11.4	<12.3	0.21	76.5	4.4	22.1	701	<1.50	6.07
	4/17/2006	<0.2	11	4.8	<0.2	<11.4	<12.3	0.37	71.5	2.54	20.7	378	<1.50	6.11
	6/6/2006	<0.2	13	5.7	<0.2	--	--	6.95	285	--	--	--	--	6.07
	4/2/2007	<0.2	7.8	4.9	<0.020	<1.1	<1.2	3.59	6.0	0.00	26.4	<0.7	<1.50	6.21
	6/11/2007	<0.2	8.6	4.6	<0.2	<1.1	<1.2	2.36	12.4	0.00	31.9	129	1.61	5.87
	9/11/2007	<0.2	9.5	3.8	<0.2	<1.1	<1.2	1.64	31.7	3.60	82.8	142	1.54	5.82
	12/11/2007	<0.2	8.7	6.5	<0.2	<1.1	<1.2	0.76	37.1	0.60	23.4	6.5	<1.50	5.98
	3/13/2008	<0.2	8.8	2.7	<0.2	<1.1	<1.2	0.47	-25.0	2.60	38.5	20.2	2.26	5.84
	6/3/2008	< 0.2	8.4	3.2	< 0.2	<1.1	<1.2	1.66	-451.4	2.20	37.8	56.4	<1.50	5.85
	9/3/2008	<0.2	8.2	3.9	<0.2	<1.1	<1.2	-0.01	-233.7	3.80	64.5	77.0	<1.50	5.74
	12/9/2008	<0.2	7.2	2.2	<0.2	<1.1	<1.2	0.30	17.9	3.80	43.6	18.0	<1.50	5.86
	3/12/2009	<0.2	8.0	3.2	0.021	<1.1	<1.2	0.18	3.8	2.40	39.7	54.1	2.01	6.09
	6/2/2009	<0.2	7.0	2.2	<0.020	<1.1	<1.2	0.25	-40.9	3.20	45.9	28.6	1.67	6.19
	11/30/2009	0.048	6.6	1.5	<0.020	--	--	1.40	54.0	--	--	--	--	6.51
	6/7/2010	0.042	5.9	1.8	< 0.02	--	--	--	--	--	--	--	--	--

Table 7-1
Interim Remedial Action Groundwater Data Summary
Boeing Auburn Remedial Investigation
Auburn, Washington

		Volatile Organic Compounds						Aquifer Redox Conditions					Donor Indicators	
Well	Date	PCE (µg/L)	TCE (µg/L)	cDCE (µg/L)	VC (µg/L)	Ethene (µg/L)	Ethane (µg/L)	DO (mg/L)	ORP (mV)	Iron (mg/L)	Sulfate (mg/L)	Methane (µg/L)	TOC (mg/L)	pH
	12/10/2010	0.025	5	1.6	< 0.02	--	--	--	--	--	--	--	--	--
	6/24/2011	< 0.02	2.6	0.6	< 0.02	--	--	0.21	126.6	--	--	--	--	5.82
	12/14/2011	0.036	5.5	1.7	< 0.02	--	--	0.07	72.2	--	--	--	--	5.87
	6/14/2012	< 0.02	5.1	2	< 0.02	--	--	0.18	100.2	--	--	--	--	5.62
	12/7/2012	0.042	0.9	1.6	< 0.02	--	--	0.14	36.0	--	--	--	--	5.96
	6/3/2013	0.025	4.5	2	< 0.02	--	--	0.33	126.1	--	--	--	--	5.82
	12/6/2013	0.032	5.4	2	< 0.02	--	--	1.90	165.9	--	--	--	--	6.02
	6/2/2014	< 0.02	2.8	1.1	< 0.02	--	--	0.81	75.3	--	--	--	--	5.77
	12/10/2014	0.033	5.3	1.3	< 0.2	--	--	1.36	26.2	--	--	--	--	6.46
	6/4/2015	0.031	4.7	2.2	< 0.020	--	--	0.01	209.4	--	--	--	--	5.96
	12/4/2015	0.032	4.3	1.1	< 0.2	--	--	0.20	36.2	--	--	--	--	6.11
AGW067	2/10/2005	<0.2	12	6.2	<0.2	--	--	0.00	41.6	--	--	--	--	6.09
	5/3/2005	<0.2	11	7.3	<0.2	<0.5	<0.5	0.76	50.1	0.4	39.0	1.8	<1.50	6.33
	8/12/2005	<0.2	10	8.4	<0.2	<0.5	<0.5	1.25	54.5	0.4	37.0	0.74	<1.50	5.93
	11/9/2005	<0.2	9.8	7.4	<0.2	<0.5	<0.5	0.00	58.6	0.0	26.0	<0.5	<1.50	5.52
	12/1/2005	<0.2	12	7.5	<0.2	--	--	0.67	200	--	--	--	--	7.45
	2/3/2006	<0.2	11	5.8	<0.2	<11.4	<12.3	0.15	63.9	0.6	24.9	22.4	<1.50	6.26
	4/17/2006	<0.2	10	7.4	<0.2	<11.4	<12.3	1.09	64.1	<0.040	37.0	<6.54	<1.50	5.79
	6/6/2006	<0.2	12	7.8	<0.2	--	--	6.26	273	--	--	--	--	5.75
	4/2/2007	<0.2	9.8	4.6	0.055	<1.1	<1.2	1.15	13.7	3.8	23.8	131	1.96	6.04
	6/12/2007	<0.2	9.5	6.2	<0.2	<1.1	<1.2	1.24	14.2	0.0	29.7	<0.7	<1.50	6.08
	9/12/2007	<0.2	7.6	8.5	<0.2	<1.1	<1.2	1.96	179.4	0.0	30.8	14.2	<1.50	6.12
	12/11/2007	<0.2	8.9	2.6	<0.2	<1.1	<1.2	0.85	0	2.4	57.5	50.3	<1.2	5.85
	3/13/2008	<0.2	9.4	6.5	<0.2	<1.1	<1.2	0.58	21.6	0.4	25.1	1.2	1.57	6.02
	6/4/2008	<0.2	8.9	6.4	<0.2	<1.1	<1.2	--	--	--	24.5	<0.7	<1.50	6.44
	9/3/2008	<0.2	6.9	8.7	<0.2	<1.1	<1.2	0.00	-212.6	0.0	27.6	3.1	<1.50	5.89
	12/9/2008	<0.2	7.2	6.0	<0.2	<1.1	<1.2	0.26	119.3	0.2	22.2	<0.7	<1.50	6.00
	3/12/2009	<0.2	8.4	6.9	<0.020	<1.1	<1.2	0.01	125.8	--	22.6	<0.7	3.89	6.22
	3/13/2009	<0.2	8.2	6.7	0.022	--	--	0.13	146.5	0.0	23.1	--	--	6.16
	6/4/2009	<0.2	7.2	5.7	<0.020	<1.1	<1.2	0.00	83	0.0	20.8	<0.7	<1.50	6.25
	11/30/2009	0.049	7.1	4.2	0.022	--	--	2.22	7.0	--	--	--	--	7.38
	6/7/2010	0.053	5.9	4.6	< 0.02	--	--	--	--	--	--	--	--	--
	12/10/2010	0.049	5.8	3.6	< 0.02	--	--	--	--	--	--	--	--	--
	6/20/2011	0.055	5.8	3.8	< 0.02	--	--	0.9	163.3	--	--	--	--	5.76
	12/14/2011	0.053	4.5	2.4	< 0.02	--	--	0.5	94.9	--	--	--	--	5.92
	6/21/2012	< 0.02	5.9	3.3	< 0.02	--	--	61.7	264.8	--	--	--	--	6.11
	12/3/2012	0.058	4.5	2.5	< 0.02	--	--	1.4	126.8	--	--	--	--	5.42
	6/3/2013	0.059	5.2	2.9	< 0.02	--	--	0.4	130.0	--	--	--	--	6.08
	12/6/2013	0.06	4.9	2.7	< 0.02	--	--	2.8	166.6	--	--	--	--	6.40
	6/2/2014	0.035	4.4	3.1	< 0.02	--	--	1.7	-12.8	--	--	--	--	6.39
	12/10/2014	0.047	4.1	2.5	< 0.2	--	--	2.2	60.8	--	--	--	--	6.33
	6/4/2015	0.053	5.8	3.8	< 0.020	--	--	0.1	219.1	--	--	--	--	6.50
	12/4/2015	0.068	3.7	1.8	< 0.2	--	--	0.4	90.4	--	--	--	--	6.28
AGW072	11/6/2000	<0.2	4.2	0.6	<0.2	--	--	--	--	--	--	--	--	--

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		Volatile Organic Compounds						Aquifer Redox Conditions					Donor Indicators	
Well	Date	PCE (µg/L)	TCE (µg/L)	cDCE (µg/L)	VC (µg/L)	Ethene (µg/L)	Ethane (µg/L)	DO (mg/L)	ORP (mV)	Iron (mg/L)	Sulfate (mg/L)	Methane (µg/L)	TOC (mg/L)	pH
	5/18/2001	0.2	4.4	0.5	<0.2	--	--	--	--	--	--	--	--	--
	11/1/2001	0.2	5	0.6	<0.2	--	--	--	--	--	--	--	--	--
	5/17/2002	0.2	4.8	0.7	<0.2	--	--	--	--	--	--	--	--	--
	11/24/2002	0.2	4.5	0.4	<0.2	--	--	--	--	--	--	--	--	--
	5/19/2003	0.2	4.8	0.5	<0.2	--	--	--	--	--	--	--	--	--
	12/17/2003	0.2	2.7	<0.2	<0.2	--	--	--	--	--	--	--	--	--
	3/2/2004	0.2	4	0.3	<0.02	--	--	--	--	--	--	--	--	--
	6/7/2004	0.2	4.1	0.3	<0.02	--	--	--	--	--	--	--	--	--
	8/17/2004	0.3	3.9	0.3	<0.02	--	--	--	--	--	--	--	--	--
	12/3/2004	0.2	3.7	0.8	<0.02	--	--	--	--	--	--	--	--	--
	4/17/2006	<0.2	4	0.7	<0.02	--	--	--	--	--	--	--	--	--
	4/2/2007	<0.2	3.4	0.3	<0.02	--	--	1.45	17.3	--	--	--	--	6.48
	6/11/2007	<0.2	3.2	0.3	<0.2	--	--	0.49	1.2	--	--	--	--	6.23
	9/12/2007	<0.2	2.7	0.4	<0.2	--	--	0.75	-11.3	--	--	--	--	6.13
	12/11/2007	<0.2	2.4	0.5	<0.2	--	--	0.00	-78.5	--	--	--	--	6.55
	3/13/2008	<0.2	3.0	0.4	<0.2	--	--	0.00	-72.5	--	--	--	--	6.57
	6/4/2008	<0.2	3.3	0.4	<0.2	--	--	1.31	-465.6	--	--	--	--	6.34
	9/3/2008	<0.2	2.4	0.5	<0.2	--	--	3.59	-4.3	--	--	--	--	6.40
	12/9/2008	<0.2	2.5	0.5	<0.2	--	--	2.83	-130.4	--	--	--	--	6.47
	3/10/2009	<0.2	3.1	0.5	<0.020	--	--	0.05	14.0	--	--	--	--	6.58
	6/2/2009	<0.2	2.8	0.3	<0.020	--	--	0.17	-66.6	--	--	--	--	6.65
	11/30/2009	0.068	2.0	0.4	<0.020	--	--	2.41	-0.8	--	--	--	--	7.53
	6/7/2010	0.083	2.2	0.3	< 0.02	--	--	--	--	--	--	--	--	--
	12/10/2010	0.088	2.2	0.4	< 0.02	--	--	--	--	--	--	--	--	--
	6/24/2011	0.11	2.2	< 0.2	< 0.02	--	--	1.99	81.2	--	--	--	--	6.57
	12/19/2011	0.087	1.9	< 0.2	< 0.02	--	--	0.34	148.0	--	--	--	--	6.55
	6/14/2012	0.13	2	< 0.2	< 0.02	--	--	1.47	112.6	--	--	--	--	6.11
	12/7/2012	0.12	1.7	< 0.2	< 0.02	--	--	0.58	146.0	--	--	--	--	6.46
	6/3/2013	0.11	1.6	< 0.2	< 0.02	--	--	0.71	112.9	--	--	--	--	6.51
	12/6/2013	0.12	1.6	< 0.2	< 0.02	--	--	2.12	153.0	--	--	--	--	6.63
	6/2/2014	0.12	1.6	< 0.2	< 0.02	--	--	3.66	101.2	--	--	--	--	6.36
	12/10/2014	0.096	1.5	< 0.2	< 0.2	--	--	2.15	110.0	--	--	--	--	6.54
	6/4/2015	0.13	1.5	< 0.2	< 0.020	--	--	0.15	196.7	--	--	--	--	6.65
	12/4/2015	0.12	1.3	< 0.2	< 0.2	--	--	0.61	122.4	--	--	--	--	6.56
AGW112	6/17/2004	0.3	2.4	<0.2	<0.2	<0.5	<0.5	0.00	23.0	0.0	22.2	<0.5	<1.50	6.28
	9/1/2004	0.4	4.6	0.8	<0.2	<0.5	<0.5	0.27/0.49	224	0.5	9.5	<0.5	2.47	5.82
	10/6/2004	0.4	5.2	1.0	0.3	<0.5	<0.5	0.00	40.0	0.0	12.1	<0.5	<1.50	6.35
	11/3/2004	0.4	4.7	1.2	0.3	<0.5	<0.5	0.00	31.4	0.5	6.5	6.3	<1.50	6.52
	12/9/2004	0.3	3.6	2.1	0.2	<0.5	<0.5	0.00	29.5	0.5	4.0	51	<1.50	6.61
	1/4/2005	0.3	2.5	2.3	<0.2	<0.5	<0.5	0.00	24.6	0.6	4.4	170	<1.50	6.58
	2/9/2005	0.3	2.4	1.6	<0.2	<0.5	<0.5	0.00	22.2	0.6	8.7	120	<1.50	6.66
	3/8/2005	0.2	2.4	1.3	<0.2	<0.5	<0.5	0.00	20.1	0.6	12.9	150	<1.50	6.73
	4/6/2005	0.3	2.5	1.0	<0.2	<0.5	<0.5	0.00	19.7	0.8	15.3	230	<1.50	6.98
	5/4/2005	0.2	2.4	1.1	<0.2	<0.5	<0.5	0.00	20.4	0.8	16.4	330	<1.50	6.66

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		Volatile Organic Compounds						Aquifer Redox Conditions					Donor Indicators	
Well	Date	PCE (µg/L)	TCE (µg/L)	cDCE (µg/L)	VC (µg/L)	Ethene (µg/L)	Ethane (µg/L)	DO (mg/L)	ORP (mV)	Iron (mg/L)	Sulfate (mg/L)	Methane (µg/L)	TOC (mg/L)	pH
	6/2/2005	0.3	2.4	1.0	<0.2	<0.5	<0.5	0.00	18.7	0.7	16.6	230	<1.50	6.31
	7/6/2005	0.2	2.4	0.7	<0.2	<0.5	<0.5	0.00	23.4	0.8	19.1	200	<1.50	6.09
	8/11/2005	0.2	2.6	0.8	<0.2	<0.5	<0.5	0.00	25.2	0.8	21.4	300	<1.50	6.63
	9/8/2005	0.3	3.1	1.2	0.4	<0.5	<0.5	0.00	28.2	0.6	20.9	300	<1.50	6.19
	10/4/2005	0.3	3.3	1.3	0.4	<0.5	<0.5	0.00	15.0	0.8	18.0	150	<1.50	6.61
	11/10/2005	0.2	2.4	1.0	0.4	<0.5	<0.5	0.00	35.5	0.6	18.2	530	<1.50	6.56
	12/6/2005	0.2	2.8	1.1	0.4	<11.4	<12.3	1.59	145	1.0	13.2	3680	<1.50	6.75
	1/10/2006	0.3	2.6	1.0	<0.2	<11.4	<12.3	0.00	31.8	0.6	15.4	3270	<1.50	6.83
	2/6/2006	0.3	2.1	0.6	<0.2	<11.4	<12.3	0.00	32.5	0.6	20.6	1010	<1.50	6.75
AGW112R	10/2/2006	0.2	2.7	0.8	0.2	<1.1	1.6	1.41	--	1.0	24.5	217	<1.50	7.01
	1/23/2007	0.2	1.8	0.3	<0.2	<1.1	<1.2	0.61	-37.9	0.4	20.8	10.2	<1.50	6.50
	4/3/2007	0.3	1.7	<0.2	<0.020	<1.1	<1.2	0.92	-29.5	0.4	21.5	1.8	<1.50	6.79
	6/12/2007	0.3	1.9	<0.2	<0.2	<1.1	<1.2	0.86	-18.4	--	21.6	1.0	<1.50	6.41
	9/12/2007	0.2	2.3	0.4	<0.2	<1.1	<1.2	2.30	83.3	0.4	25.5	<0.7	<1.50	6.63
	12/11/2007	0.2	2.0	0.7	<0.2	<1.1	<1.2	2.92	-10.6	0.4	25.6	260	<1.5	6.42
	3/12/2008	0.3	2.5	0.3	<0.2	<1.1	<1.2	2.65	-50.4	0.8	21.1	1.2	<1.50	6.57
	6/3/2008	0.3	2.1	0.3	< 0.2	<1.1	<1.2	2.30	-464.3	0.0	21.0	<0.7	<1.50	6.33
	9/4/2008	0.3	2.9	0.6	<0.2	<1.1	<1.2	2.95	2.3	0.4	24.1	12.1	1.59	5.98
	12/10/2008	0.2	3.2	1.1	<0.2	<1.1	<1.2	2.36	22.3	0.0	19.9	5120	<1.50	6.61
	3/11/2009	0.2	2.2	0.3	<0.020	<1.1	<1.2	0.00	16.0	0.8	19.4	<0.7	1.69	6.66
	6/3/2009	0.2	2.6	0.4	<0.020	<1.1	<1.2	0.10	49.4	0.0	18.7	<0.7	<1.50	6.47
	12/1/2009	0.15	2.7	1.3	0.073	--	--	2.08	19.5	--	--	--	--	7.41
	6/8/2010	0.22	2	0.4	<0.020	--	--	--	--	--	--	--	--	
	12/9/2010	0.17	3.7	1.1	<0.020	--	--	--	--	--	--	--	--	
	6/28/2011	0.23	1.4	0.3	<0.020	--	--	1.15	79.4	--	--	--	--	6.45
	12/14/2011	0.22	4.6	1.4	0.027	--	--	0.08	69.1	--	--	--	--	6.20
	6/19/2012	0.29	1.7	0.4	<0.020	--	--	0.30	214.9	--	--	--	--	6.30
	12/3/2012	0.22	4	1.3	0.036	--	--	2.04	290.1	--	--	--	--	6.43
	6/3/2013	0.2	1.4	0.3	<0.020	--	--	0.38	144.1	--	--	--	--	6.77
	12/5/2013	0.16	2.3	0.8	<0.020	--	--	1.97	139.8	--	--	--	--	6.70
	6/2/2014	0.22	1	0.2	<0.020	--	--	1.71	149.5	--	--	--	--	6.22
	12/9/2014	0.19	2.2	0.8	0.089	--	--	0.71	65.4	--	--	--	--	6.28
	6/2/2015	0.2	1.4	0.2	<0.020	--	--	14.74	102.0	--	--	--	--	6.05
	12/3/2015	0.2	2	0.8	0.098	--	--	0.41	109.3	--	--	--	--	6.33
AGW125	4/2/2007	<0.2	14	3.3	0.054	1.4	2.2	0.87	3.0	1.5	21.7	22.0	5.66	6.37
	6/11/2007	<0.2	13	3.5	<0.2	<1.1	<1.2	1.65	3.4	1.8	35.2	30.2	6.54	6.00
	9/12/2007	<0.2	12	3.4	<0.2	<1.1	<1.2	3.72	14.4	2.0	17.9	25.7	8.04	6.34
	12/11/2007	<0.2	13	2.5	<0.2	<1.1	<1.2	1.11	-12.8	1.8	17.8	39.5	4.82	--
	3/13/2008	<0.2	16	3.4	<0.2	<1.1	<1.2	0.41	-8.6	1.8	17.0	23.7	7.58	5.97
	6/3/2008	< 0.2	11	3.4	< 0.2	<1.1	<1.2	--	-106.0	1.8	18.3	45.2	6.78	6.53
	9/3/2008	<0.2	10	3.8	<0.2	<1.1	<1.2	0.00	-202.5	3.2	32.7	15.3	7.51	6.03
	12/9/2008	<0.2	11	2.5	<0.2	<1.1	<1.2	0.24	6.2	1.0	18.6	15.7	5.56	6.09
	3/10/2009	<0.2	12	3.2	0.046	<1.1	<1.2	0.10	-19.3	2.0	20.3	30.5	7.20	6.30
	6/3/2009	<0.2	12	2.9	0.044	<1.1	<1.2	0.00	-42.8	2.0	23.3	33.0	7.10	5.57

Table 7-1
Interim Remedial Action Groundwater Data Summary
Boeing Auburn Remedial Investigation
Auburn, Washington

		Volatile Organic Compounds						Aquifer Redox Conditions					Donor Indicators	
Well	Date	PCE (µg/L)	TCE (µg/L)	cDCE (µg/L)	VC (µg/L)	Ethene (µg/L)	Ethane (µg/L)	DO (mg/L)	ORP (mV)	Iron (mg/L)	Sulfate (mg/L)	Methane (µg/L)	TOC (mg/L)	pH
	11/30/2009	0.024	12	1.5	<0.020	<1.1	<1.2	2.21	11.2	1.6	21.2	22.1	8.03	7.65
	6/8/2010	< 0.02	9.3	2.2	0.029	< 1.1	< 1.2	1.33	46.3	2.2	25.2	28.1	6.38	7.10
	12/10/2010	< 0.02	10	2.1	0.024	< 1.1	< 1.2	--	31.2	1.8	22.1	26.9	5.13	6.39
	6/20/2011	< 0.02	7.8	1.5	< 0.02	< 1.1	< 1.2	6.57	22.2	1.8	22.8	3.2	5.97	6.21
	12/14/2011	< 0.02	8.6	1.9	0.041	< 1.1	< 1.2	6.76	16.8	2	46.5	25.9	6.43	6.3
	6/14/2012	< 0.02	9.1	2.3	0.029	< 1	< 1	0.09	26.7	2.8	23.1	21	6.00	5.97
	12/7/2012	0.03	9.8	2.1	0.032	< 1	< 1	0.78	164.4	3	21.1	33	5.90	6.13
	6/3/2013	< 0.02	8.8	2.2	0.039	< 1	< 1	0.18	115.8	3.2	22.4	24	8.10	6.15
	12/6/2013	0.021	9.7	2.2	0.04	< 1	< 1	2.13	168.6	2.1	17.5	50	7.10	6.25
	6/2/2014	0.024	7.4	1.9	0.022	< 1	< 1	0.89	65.4	2.2	18.2	7.8	3.80	6.14
	12/10/2014	0.021	10	1.8	0.033	< 1	< 1	1.76	15.3	2.1	16.3	43	4.40	6.7
	6/4/2015	0.025	9.1	2.2	0.031	< 5.0	< 5.0	0.06	213.7	2	19.4	26	4.70	6.33
	12/4/2015	0.024	9.1	1.7	0.034	< 1.0	< 1.0	0.37	18.1	2.0	16.2	37	4.50	6.33
AGW126	4/2/2007	<0.2	15	6.0	0.13	3.0	4.9	0.47	-10.7	2.0	18.6	477	1.94	6.45
	6/11/2007	<0.2	21	5.9	<0.2	<1.1	<1.2	0.49	-7.0	2.0	18.2	160	1.85	6.32
	9/12/2007	<0.2	17	5.4	<0.2	<1.1	<1.2	0.74	-88.6	3.6	17.8	1040	1.79	6.10
	12/11/2007	<0.2	12	7.7	<0.2	<1.1	<1.2	0.01	-67.6	3.6	16.7	2060	2.31	6.40
	3/13/2008	<0.2	16	6.0	<0.2	<1.1	<1.2	0.02	-92.6	3.4	18.6	144	2.89	6.41
	6/3/2008	< 0.2	13	6.6	< 0.2	<1.1	<1.2	2.69	-446.1	1.2	18.9	539	1.87	6.22
	9/3/2008	<0.2	11	7.3	<0.2	<1.1	<1.2	2.60	-28.0	3.6	20.8	366	2.51	6.16
	12/9/2008	<0.2	10	6.9	<0.2	<1.1	<1.2	3.09	-51.7	2.2	18.0	384	1.52	6.06
	3/10/2009	<0.2	13	6.3	0.048	<1.1	<1.2	0.01	-147.0	4.0	19.6	183	2.38	6.36
	6/3/2009	<0.2	13	6.1	0.14	<1.1	<1.2	0.17	-105.4	3.4	19.3	166	<1.50	6.32
	11/30/2009	0.022	9.9	5.5	0.12	<1.1	<1.2	1.20	-20.0	4.0	17.4	1930	4.84	6.79
	6/8/2010	0.023	10	4.9	0.039	< 1.1	< 1.2	1.07	-29.3	3.0	18.1	196	1.89	6.40
	12/10/2010	< 0.020	9.2	5.3	0.059	< 1.1	< 1.2	--	-55.2	1.4	19.2	385	1.58	6.40
	6/20/2011	< 0.020	11	5	0.045	< 1.1	< 1.2	0.59	-32.2	2.2	19.3	32.5	2.09	6.21
	12/14/2011	< 0.020	9.2	4.6	0.17	< 1.1	< 1.2	0.17	-20.8	4.2	18.9	539	2.14	6.34
	6/14/2012	< 0.020	9.6	7.1	0.1	< 1	< 1	0.13	-0.3	5.4	22.2	42	1.2	6.07
	12/7/2012	0.025	9.5	5.4	0.057	< 1	< 1	0.41	-20.4	4.5	17.2	660	<1.0	6.3
	6/3/2013	< 0.020	11	6.2	0.063	< 1	< 1	0.25	123.6	3.3	18.5	42	1.1	6.23
	12/6/2013	< 0.020	11	5.7	0.051	< 1	< 1	1.85	155.9	2.6	16	120	1.1	6.43
	6/2/2014	< 0.020	13	6.4	0.055	< 1	< 1	0.61	27.6	4.6	17.3	22	2.6	6.25
	12/10/2014	< 0.020	10	5.4	0.096	< 1	< 1	1.51	-29	3.1	13.3	1400	<1.0	6.64
	6/4/2015	< 0.020	11	6	0.054	< 5.0	< 5.0	0.01	193.1	3	17.9	100	<1.0	6.47
	12/4/2015	< 0.020	8	4.7	0.11	< 1	< 1	0.30	-31.1	2.5	12.3	2100	<1.0	6.47

-- = parameter was not analyzed, not measured, or historic information
cDCE = cis-1,2-dichloroethene
DO = dissolved oxygen
µg/L = micrograms per liter
mg/L = milligrams per liter
mV = milliVolt
ORP = oxygen reduction potential
PCE = tetrachloroethene
TCE = trichloroethene
TOC = total organic carbon
VC = vinyl chloride

Notes:

1. Injections were performed July 7 - July 27, 2004; January 17 - February 1, 2005; and October 18-27, 2005.
2. Iron results presented are for ferrous iron (Fe^{+2}).

Table 8-1
Maximum and Most Recent Groundwater Results: TCA, PCE, TCE, and VC
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte:	1,1,1-Trichloroethane				Tetrachloroethene				Trichloroethene				Vinyl Chloride			
SL:	200 µg/L				5 µg/L				0.54 µg/L				0.029 µg/L			
Well/Boring	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
AGW001R	**1.5**	11/06/00	0.5 U	12/01/15	**0.3**	09/03/08	**0.16**	12/01/15	**5.64**	06/28/94	**2**	12/01/15	ND	--	0.2 U	12/01/15
AGW002R	**257**	06/27/94	0.5 U	12/03/15	**0.5**	09/11/97	0.2 U	12/03/15	**1433**	06/27/94	0.2 U	12/03/15	**21**	12/12/95	**0.066**	12/03/15
AGW003R	**420**	06/21/96	**86**	12/09/04	**0.7**	08/30/04	0.6 U	12/09/04	**14**	09/04/98	0.6 U	12/09/04	**0.086**	12/09/04	**0.086**	12/09/04
AGW004	**3.16**	03/30/95	0.2 U	11/01/04	**0.4 J**	06/17/04	0.2 U	11/01/04	**30.7**	06/27/94	**0.3**	11/01/04	ND	--	0.2 U	11/01/04
AGW005	**6.99**	07/26/94	**1.6**	03/14/97	ND	--	1 U	03/14/97	**6**	09/22/94	**2.3**	03/14/97	ND	--	2 U	03/14/97
AGW006	**14.33**	03/22/95	0.5 U	12/01/15	**0.4**	12/21/03	0.2 U	12/01/15	**18.98**	03/22/95	**0.5**	12/01/15	**0.16**	04/02/07	**0.1**	12/01/15
AGW007	ND	--	0.2 U	12/09/04	**0.5**	12/21/03	**0.4**	12/09/04	**4.88**	09/22/94	**1.8**	12/09/04	ND	--	0.020 U	12/09/04
AGW008	ND	--	0.2 U	12/22/03	ND	--	0.2 U	12/22/03	ND	--	0.2 U	12/22/03	ND	--	0.2 U	12/22/03
AGW009	ND	--	0.5 U	06/02/15	**0.3**	12/04/08	**0.14**	06/02/15	**8.07**	02/16/94	0.2 U	06/02/15	ND	--	0.020 U	06/02/15
AGW010	ND	--	5.0 U	12/03/15	**0.15 J**	12/05/11	**0.12**	12/03/15	**7.01**	02/15/94	2.0 U	12/03/15	ND	--	0.020 U	12/03/15
AGW011	ND	--	1 U	03/20/97	ND	--	1 U	03/20/97	ND	--	1 U	03/20/97	ND	--	2 U	03/20/97
AGW012	ND	--	1 U	03/20/97	ND	--	1 U	03/20/97	**2.48**	02/14/94	**1**	03/20/97	ND	--	2 U	03/20/97
AGW013	ND	--	1 U	03/21/97	ND	--	1 U	03/21/97	**1.33**	02/16/94	1 U	03/21/97	ND	--	2 U	03/21/97
AGW014	ND	--	0.2 U	02/20/04	ND	--	0.2 U	02/20/04	**2.86**	02/14/94	0.2 U	02/20/04	ND	--	0.2 U	02/20/04
AGW015	ND	--	0.2 U	06/09/09	ND	--	0.2 U	06/09/09	**1.5**	03/24/95	0.2 U	06/09/09	ND	--	0.020 U	06/09/09
AGW016	ND	--	1 U	03/13/00	ND	--	1 U	03/13/00	ND	--	1 U	03/13/00	ND	--	1 U	03/13/00
AGW017	ND	--	0.2 U	06/09/09	ND	--	0.2 U	06/09/09	**9.25**	02/15/94	**1.3**	06/09/09	ND	--	0.020 U	06/09/09
AGW018	**0.2**	09/08/97	0.2 U	05/23/03	**0.9**	09/08/97	**0.2**	05/23/03	**4.8**	12/19/96	**0.4**	05/23/03	ND	--	0.2 U	05/23/03
AGW019	ND	--	0.2 U	02/17/99	ND	--	0.2 U	02/17/99	ND	--	0.2 U	02/17/99	ND	--	0.2 U	02/17/99
AGW020	ND	--	0.5 U	11/25/14	**0.048**	07/28/14	0.2 U	11/25/14	ND	--	0.2 U	11/25/14	ND	--	0.020 U	11/25/14
AGW021	ND	--	1 UJ	03/11/97	ND	--	1 U	03/11/97	**1.05**	02/08/94	1 U	03/11/97	ND	--	2 UJ	03/11/97
AGW022	ND	--	1 U	03/11/97	ND	--	1 U	03/11/97	ND	--	1 U	03/11/97	ND	--	2 U	03/11/97
AGW023	ND	--	1 U	03/08/00	ND	--	1 U	03/08/00	**1.16**	02/08/94	1 U	03/08/00	ND	--	1 U	03/08/00
AGW024	ND	--	0.5 U	12/08/15	ND	--	0.2 U	12/08/15	ND	--	0.2 U	12/08/15	**20.16**	02/09/94	**1.7**	12/08/15
AGW025	ND	--	0.5 U	12/03/15	ND	--	0.2 U	12/03/15	**0.2**	06/03/08	0.2 U	12/03/15	**15.51**	02/09/94	**1.1**	12/03/15
AGW026	ND	--	0.5 U	12/03/15	ND	--	0.2 U	12/03/15	**2.29**	09/21/94	**0.9**	12/03/15	**0.15**	12/03/15	**0.15**	12/03/15
AGW027	ND	--	0.5 U	12/03/15	ND	--	0.2 U	12/03/15	**1.31**	02/09/94	0.2 U	12/03/15	**4.3**	12/11/95	**0.82**	12/03/15
AGW028	ND	--	0.2 U	09/29/10	**0.049**	09/29/10	**0.049**	09/29/10	**3.1**	06/20/96	**1.2**	09/29/10	ND	--	0.020 U	09/29/10
AGW029	ND	--	0.5 U	06/04/15	ND	--	0.2 U	06/04/15	ND	--	0.2 U	06/04/15	**0.5**	12/05/05	0.020 U	06/04/15
AGW030	ND	--	0.5 U	06/04/15	ND	--	0.2 U	06/04/15	ND	--	0.2 U	06/04/15	**0.4**	11/02/01	0.020 U	06/04/15
AGW031R	**4.18**	03/27/95	0.5 U	11/30/15	ND	--	0.2 U	11/30/15	**10.97**	03/27/95	**1.8**	11/30/15	ND	--	**0.037**	11/30/15
AGW032	ND	--	0.5 U	12/03/15	ND	--	0.020 U	12/03/15	**0.7**	09/09/97	0.2 U	12/03/15	**5.2**	08/30/99	**0.041**	12/03/15
AGW033	ND	--	0.5 U	12/08/15	**0.043**	12/02/10	**0.039**	12/08/15	**8.7**	12/12/95	**2.4**	12/08/15	**1.6**	11/25/02	**0.21**	12/08/15
AGW034	ND	--	0.5 U	06/04/15	ND	--	0.2 U	06/04/15	**2.6**	03/19/98	**0.2**	06/04/15	**0.026**	06/08/04	0.020 U	06/04/15
AGW035	ND	--	0.5 U	06/04/15	ND	--	0.2 U	06/04/15	**5.7**	03/19/98	**1.5**	06/04/15	ND	--	0.020 U	06/04/15
AGW036	ND	--	0.2 U	12/15/03	**0.8**	02/17/99	**0.3**	12/15/03	ND	--	0.2 U	12/15/03	ND	--	0.2 U	12/15/03
AGW037	ND	--	0.5 U	12/03/15	**0.11**	06/10/10	**0.08**	12/03/15	**5.3**	12/13/96	**2.3**	12/03/15	**0.2**	12/03/15	**0.2**	12/03/15
AGW038	ND	--	0.2 U	06/10/09	ND	--	0.2 U	06/10/09	**2.8**	02/22/99	**0.6**	06/10/09	**0.052**	06/10/09	**0.052**	06/10/09
AGW039	ND	--	0.5 U	06/09/15	ND	--	0.2 U	06/09/15	**2**	12/13/96	**0.5**	06/09/15	**0.06**	06/10/09	**0.03**	06/09/15
AGW040	ND	--	0.5 U	06/09/15	**0.092**	12/06/10	**0.034**	06/09/15	**4**	12/13/96	**1**	06/09/15	**0.039**	06/10/09	0.020 U	06/09/15
AGW041	ND	--	0.5 U	06/03/15	**1.6 J**	09/27/96	**0.3**	06/03/15	**2.3 J**	09/27/96	**0.4**	06/03/15	ND	--	0.020 U	06/03/15
AGW042	ND	--	1 U	03/12/97	ND	--	1 U	03/12/97	**1.1 J**	09/27/96	1 U	03/12/97	ND	--	2 U	03/12/97
AGW043	**0.6**	02/15/99	0.2 U	12/18/03	**0.8**	03/24/98	**0.3**	12/18/03	**1.7 J**	09/27/96	**0.6**	12/18/03	ND	--	0.2 U	12/18/03
AGW044	ND	--	0.5 U	06/09/15	**0.1**	06/23/14	**0.046**	06/09/15	**0.2**	12/07/05	0.2 U	06/09/15	ND	--	0.020 U	06/09/15
AGW045	ND	--	1 U	03/12/97	ND	--	1 U	03/12/97	**1.1**	06/11/96	1 U	03/12/97	ND	--	2 U	03/12/97
AGW046	ND	--	0.2 U	09/29/10	**0.054**	09/29/10	**0.054**	09/29/10	**2.9**	12/13/96	**1.2**	09/29/10	ND	--	0.020 U	09/29/10
AGW047	ND	--	0.2 U	09/29/10	**0.062**	09/29/10	**0.062**	09/29/10	**3.3**	03/19/97	**1**	09/29/10	ND	--	0.020 U	09/29/10

Table 8-1
Maximum and Most Recent Groundwater Results: TCA, PCE, TCE, and VC
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte:	1,1,1-Trichloroethane				Tetrachloroethene				Trichloroethene				Vinyl Chloride			
SL:	200 µg/L				5 µg/L				0.54 µg/L				0.029 µg/L			
Well/Boring	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
AGW048	ND	--	0.2 U	09/29/10	**0.058**	09/29/10	**0.058**	09/29/10	**4.9**	03/19/97	**1.1**	09/29/10	ND	--	0.020 U	09/29/10
AGW049	ND	--	0.2 U	09/29/10	**0.064**	09/29/10	**0.064**	09/29/10	**1.6**	09/29/10	**1.6**	09/29/10	ND	--	0.020 U	09/29/10
AGW050	ND	--	0.2 U	09/29/10	**0.068**	09/29/10	**0.068**	09/29/10	**3.2**	03/19/97	**1.1**	09/29/10	ND	--	0.020 U	09/29/10
AGW051	**1.5**	02/20/04	**1.5**	02/20/04	ND	--	0.2 U	02/20/04	**3.4**	02/20/04	**3.4**	02/20/04	ND	--	0.2 U	02/20/04
AGW052	**3.6**	10/30/96	**1.4**	02/20/04	**0.3**	02/20/04	**0.3**	02/20/04	**7.1**	12/19/96	**5**	02/20/04	ND	--	0.2 U	02/20/04
AGW053R	**6.5**	02/22/99	0.5 U	12/03/15	**0.3**	06/02/14	**0.22**	12/03/15	**16**	03/26/98	**1.7**	12/03/15	**0.3**	06/12/07	**0.031**	12/03/15
AGW054	ND	--	0.2 U	12/21/03	**0.4**	12/21/03	**0.4**	12/21/03	**2.3**	10/30/96	**1**	12/21/03	ND	--	0.2 U	12/21/03
AGW055R	**9.4**	12/18/96	0.5 U	12/01/15	**0.4**	12/21/03	0.2 U	12/01/15	**13**	03/13/97	**0.5**	12/01/15	**0.34**	03/10/09	**0.051**	12/01/15
AGW056	**4.3**	10/30/96	0.2 U	12/01/05	**0.4**	12/22/03	**0.3**	12/01/05	**3.6**	10/30/96	**1.9**	12/01/05	**0.027**	12/01/05	**0.027**	12/01/05
AGW057R	**0.2**	03/23/98	0.5 U	12/01/15	**1.1**	12/17/96	**0.5**	12/01/15	**9.9**	09/01/98	**1.6**	12/01/15	**0.021**	06/02/09	0.2 U	12/01/15
AGW058R	**0.3**	09/11/97	0.5 U	06/01/15	**1.2**	10/30/96	**0.5**	06/01/15	**7.7**	10/30/96	**0.3**	06/01/15	ND	--	0.020 U	06/01/15
AGW059R	ND	--	0.5 U	06/01/15	**0.6**	06/07/10	**0.4**	06/01/15	**3**	12/16/96	**0.2**	06/01/15	ND	--	0.020 U	06/01/15
AGW060R	ND	--	0.5 U	12/04/15	**1**	10/30/96	0.020 U	12/04/15	**4.2**	10/30/96	**0.4**	12/04/15	**0.14**	06/02/09	**0.068**	12/04/15
AGW061	ND	--	0.2 U	12/16/03	**0.5**	12/16/03	**0.5**	12/16/03	**0.5**	12/16/03	**0.5**	12/16/03	ND	--	0.2 U	12/16/03
AGW062	**1.7**	10/30/96	**0.6**	12/16/03	**0.4**	12/16/03	**0.4**	12/16/03	**2.5**	10/30/96	**1.3**	12/16/03	ND	--	0.2 U	12/16/03
AGW063	ND	--	0.2 U	12/09/04	ND	--	0.2 U	12/09/04	ND	--	0.2 U	12/09/04	ND	--	0.020 U	12/09/04
AGW064	ND	--	0.5 U	11/30/15	ND	--	0.2 U	11/30/15	**0.5**	06/02/08	**0.4**	11/30/15	ND	--	0.2 U	11/30/15
AGW065	ND	--	0.5 U	06/03/15	ND	--	0.2 U	06/03/15	**4.7**	11/01/01	0.2 U	06/03/15	ND	--	0.020 U	06/03/15
AGW066	**4.4 J**	12/11/96	0.5 U	12/04/15	**0.048**	11/30/09	**0.032**	12/04/15	**23**	09/01/98	**4.3**	12/04/15	**0.067**	06/06/06	0.2 U	12/04/15
AGW067	**1.2**	02/22/99	0.5 U	12/04/15	**0.068**	12/04/15	**0.068**	12/04/15	**20 J**	12/11/96	**3.7**	12/04/15	**0.055**	04/02/07	0.2 U	12/04/15
AGW068	ND	--	0.5 U	06/03/15	ND	--	0.2 U	06/03/15	ND	--	0.2 U	06/03/15	ND	--	0.020 U	06/03/15
AGW069	ND	--	0.5 U	11/30/15	ND	--	0.2 U	11/30/15	ND	--	0.2 U	11/30/15	ND	--	0.2 U	11/30/15
AGW072	**2.3**	11/06/00	0.5 U	12/04/15	**0.3**	08/17/04	**0.12**	12/04/15	**5 J**	11/01/01	**1.3**	12/04/15	ND	--	0.2 U	12/04/15
AGW073	**0.3**	05/18/01	0.5 U	12/04/15	ND	--	0.2 U	12/04/15	**0.9**	11/24/02	**0.2**	12/04/15	ND	--	0.2 U	12/04/15
AGW074	ND	--	0.5 U	12/07/15	ND	--	0.2 U	12/07/15	ND	--	0.2 U	12/07/15	ND	--	0.020 U	12/07/15
AGW076	**0.5**	08/31/98	1 U	03/08/00	**1.5**	02/15/99	**1.2**	03/08/00	**1.1**	08/31/98	1 U	03/08/00	ND	--	1 U	03/08/00
AGW077	ND	--	0.2 U	12/12/04	**1.6**	12/12/04	**1.6**	12/12/04	**1**	12/12/04	**1**	12/12/04	ND	--	0.020 U	12/12/04
AGW078	ND	--	0.5 U	06/03/15	**2.2**	05/21/01	**0.22**	06/03/15	**1.5**	08/31/98	0.2 U	06/03/15	ND	--	0.020 U	06/03/15
AGW079	ND	--	0.5 U	12/07/15	**0.029**	12/04/12	0.2 U	12/07/15	ND	--	0.2 U	12/07/15	**2.1**	06/02/09	**0.9**	12/07/15
AGW080	ND	--	0.2 U	11/30/04	ND	--	0.2 U	11/30/04	ND	--	0.2 U	11/30/04	ND	--	0.020 U	11/30/04
AGW081	ND	--	0.5 U	06/04/15	**0.1 J**	12/08/08	0.020 U	06/04/15	**0.5**	09/11/97	0.2 U	06/04/15	**0.055**	06/04/07	**0.026**	06/04/15
AGW082	ND	--	0.2 U	11/30/04	ND	--	0.2 U	11/30/04	ND	--	0.2 U	11/30/04	ND	--	0.020 U	11/30/04
AGW083	ND	--	0.2 U	11/30/04	ND	--	0.2 U	11/30/04	ND	--	0.2 U	11/30/04	ND	--	0.020 U	11/30/04
AGW084	ND	--	0.2 U	12/06/04	**2.2**	05/21/01	**1.3**	12/06/04	**1.4**	05/21/01	**0.9**	12/06/04	ND	--	0.020 U	12/06/04
AGW085	**0.2**	11/08/00	0.5 U	12/08/15	**2**	05/21/01	**0.16**	12/08/15	**2.7**	11/08/00	0.2 U	12/08/15	ND	--	0.2 U	12/08/15
AGW086	ND	--	0.2 U	12/06/04	**2.1**	05/21/01	**1.4**	12/06/04	**1.5**	11/29/01	**1**	12/06/04	ND	--	0.020 U	12/06/04
AGW087	ND	--	0.5 U	12/07/15	**0.4**	11/02/01	0.2 U	12/07/15	ND	--	0.2 U	12/07/15	ND	--	0.020 U	12/07/15
AGW088	ND	--	0.5 U	12/07/15	**0.4**	11/02/01	0.2 U	12/07/15	ND	--	0.2 U	12/07/15	ND	--	0.020 U	12/07/15
AGW089	ND	--	0.5 U	12/07/15	**0.4**	11/02/01	0.2 U	12/07/15	**0.2**	06/21/04	0.2 U	12/07/15	ND	--	0.020 U	12/07/15
AGW090	ND	--	0.5 U	12/07/15	**0.3**	11/02/01	0.2 U	12/07/15	ND	--	0.2 U	12/07/15	ND	--	0.020 U	12/07/15
AGW091	ND	--	0.5 U	12/07/15	**0.2**	11/02/01	0.2 U	12/07/15	ND	--	0.2 U	12/07/15	ND	--	0.020 U	12/07/15
AGW095R	**2.8**	06/07/04	0.5 U	11/30/15	**0.4**	08/17/04	**0.14**	11/30/15	**3.3**	06/11/07	**1.2**	11/30/15	**0.063**	06/08/10	0.020 U	11/30/15
AGW096	ND	--	0.2 U	12/06/04	ND	--	0.2 U	12/06/04	ND	--	0.2 U	12/06/04	ND	--	0.020 U	12/06/04
AGW097	ND	--	0.2 U	12/07/04	**0.2**	06/01/04	0.2 U	12/07/04	ND	--	0.2 U	12/07/04	ND	--	0.020 U	12/07/04
AGW098R	**0.3**	03/13/08	0.5 U	11/30/15	**0.051**	12/10/12	**0.046**	11/30/15	**1.6**	09/11/07	**0.5**	11/30/15	ND	--	0.2 U	11/30/15
AGW099	ND	--	0.2 U	12/07/04	ND	--	0.2 U	12/07/04	ND	--	0.2 U	12/07/04	ND	--	0.020 U	12/07/04
AGW100	ND	--	0.2 U	06/09/09	ND	--	0.2 U	06/09/09	ND	--	0.2 U	06/09/09	ND	--	0.020 U	06/09/09

Table 8-1
Maximum and Most Recent Groundwater Results: TCA, PCE, TCE, and VC
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte:	1,1,1-Trichloroethane				Tetrachloroethene				Trichloroethene				Vinyl Chloride			
SL:	200 µg/L				5 µg/L				0.54 µg/L				0.029 µg/L			
Well/Boring	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
AGW101	ND	--	0.2 U	06/09/09	ND	--	0.2 U	06/09/09	ND	--	0.2 U	06/09/09	ND	--	0.020 U	06/09/09
AGW102	ND	--	0.2 U	11/30/04	ND	--	0.2 U	11/30/04	ND	--	0.2 U	11/30/04	ND	--	0.020 U	11/30/04
AGW103	ND	--	0.5 U	11/25/14	ND	--	0.2 U	11/25/14	ND	--	0.2 U	11/25/14	ND	--	0.020 U	11/25/14
AGW104	ND	--	0.5 U	06/03/15	**1.2**	12/06/04	**0.13**	06/03/15	**0.6**	12/06/04	0.2 U	06/03/15	ND	--	0.020 U	06/03/15
AGW105	ND	--	0.5 U	12/07/15	ND	--	0.2 U	12/07/15	**1.4**	06/16/14	**0.9**	12/07/15	**1.8**	12/01/04	**0.8**	12/07/15
AGW106R	ND	--	0.5 U	12/03/15	ND	--	0.2 U	12/03/15	**120 J**	06/17/04	0.2 U	12/03/15	**45**	03/07/05	0.2 U	12/03/15
AGW107	ND	--	1 U	11/02/04	**0.4 J**	06/16/04	1 U	11/02/04	**69**	08/31/04	**1.1**	11/02/04	ND	--	1 U	11/02/04
AGW108	**0.3 J**	06/16/04	1 U	11/02/04	**0.4 J**	06/16/04	1 U	11/02/04	**6.6 J**	06/16/04	1 U	11/02/04	**3.9**	10/05/04	**1.5**	11/02/04
AGW109	**1**	10/05/04	1 U	11/02/04	**0.4 J**	06/16/04	1 U	11/02/04	**72 J**	06/16/04	1 U	11/02/04	**7.6**	10/05/04	1 U	11/02/04
AGW110R	**7.8 J**	06/17/04	0.5 U	12/03/15	ND	--	0.2 U	12/03/15	**94 J**	06/17/04	0.2 U	12/03/15	**49**	06/02/05	**0.11**	12/03/15
AGW111	**20**	09/01/04	**8.9**	11/03/04	**0.4**	10/05/04	0.4 U	11/03/04	**27**	09/01/04	**14**	11/03/04	**0.5**	10/05/04	0.4 U	11/03/04
AGW112R	**7.8**	10/06/04	0.5 U	12/03/15	**0.4**	11/03/04	**0.2**	12/03/15	**5.2**	10/06/04	**2**	12/03/15	**0.4**	12/06/05	**0.098**	12/03/15
AGW113	**0.2 J**	06/15/04	0.2 U	11/03/04	**0.5**	10/06/04	**0.3**	11/03/04	**1.4**	10/06/04	**0.7**	11/03/04	ND	--	0.2 U	11/03/04
AGW114	**0.4 J**	06/15/04	**0.2**	11/03/04	**0.4**	11/03/04	**0.4**	11/03/04	**21**	09/01/04	**4.6**	11/03/04	ND	--	0.2 U	11/03/04
AGW115	ND	--	0.5 U	12/09/15	**0.4**	06/06/07	**0.031**	12/09/15	**0.6**	06/06/07	0.2 U	12/09/15	**1**	06/12/13	**0.5**	12/09/15
AGW116	ND	--	0.5 U	12/09/15	**1**	12/08/06	**0.5**	12/09/15	**0.5**	06/11/09	**0.2**	12/09/15	**0.022**	06/11/09	0.2 U	12/09/15
AGW117	ND	--	0.5 U	12/09/15	**1.1**	12/08/06	**0.5**	12/09/15	**1**	06/10/14	**0.3**	12/09/15	**0.041 J**	06/06/07	0.2 U	12/09/15
AGW118	ND	--	0.5 U	12/09/15	**1.3**	12/08/06	**0.6**	12/09/15	**0.8**	12/07/05	**0.3**	12/09/15	**0.028**	06/11/09	0.2 U	12/09/15
AGW119	ND	--	0.5 U	12/07/15	ND	--	0.2 U	12/07/15	ND	--	0.2 U	12/07/15	ND	--	0.020 U	12/07/15
AGW120	ND	--	0.5 U	12/07/15	ND	--	0.2 U	12/07/15	ND	--	0.2 U	12/07/15	ND	--	0.020 U	12/07/15
AGW121	ND	--	0.2 U	06/08/09	ND	--	0.2 U	06/08/09	ND	--	0.2 U	06/08/09	ND	--	0.020 U	06/08/09
AGW125	**0.6**	03/13/08	0.5 U	12/04/15	**0.03**	12/07/12	**0.024**	12/04/15	**16**	03/13/08	**9.1**	12/04/15	**0.054**	04/02/07	**0.034**	12/04/15
AGW126	**0.6**	03/13/08	0.5 U	12/04/15	**0.025**	12/07/12	0.020 U	12/04/15	**21**	06/11/07	**8**	12/04/15	**0.17**	12/14/11	**0.11**	12/04/15
AGW127	ND	--	0.5 U	06/03/15	**0.5**	12/10/08	0.2 U	06/03/15	**0.3**	10/01/08	0.2 U	06/03/15	ND	--	0.020 U	06/03/15
AGW128	ND	--	0.5 U	12/09/15	**0.3**	06/14/10	**0.13**	12/09/15	**0.5**	10/01/08	0.2 U	12/09/15	**0.34**	06/12/13	0.020 U	12/09/15
AGW129	ND	--	0.5 U	12/09/15	**0.7**	06/11/09	**0.5**	12/09/15	**1.7**	12/11/08	**0.6**	12/09/15	ND	--	0.2 U	12/09/15
AGW130	ND	--	0.5 U	12/09/15	**0.7**	12/11/08	**0.4**	12/09/15	**0.6**	06/11/09	**0.4**	12/09/15	ND	--	0.2 U	12/09/15
AGW130-35	ND	--	0.2 U	09/11/08	**0.3**	09/11/08	**0.3**	09/11/08	**0.6**	09/11/08	**0.6**	09/11/08	ND	--	0.2 U	09/11/08
AGW130-45	ND	--	0.2 U	09/11/08	**0.2**	09/11/08	**0.2**	09/11/08	**0.5**	09/11/08	**0.5**	09/11/08	ND	--	0.2 U	09/11/08
AGW131	ND	--	0.5 U	12/03/15	ND	--	0.2 U	12/03/15	**0.7**	10/01/08	0.2 U	12/03/15	**7.5**	12/08/09	**5**	12/03/15
AGW132	ND	--	0.2 U	06/09/09	**0.4**	06/09/09	**0.4**	06/09/09	ND	--	0.2 U	06/09/09	**0.1**	06/09/09	**0.1**	06/09/09
AGW133	ND	--	0.5 U	06/03/15	**0.5**	06/09/09	**0.4**	06/03/15	ND	--	0.2 U	06/03/15	**0.13**	06/09/09	0.020 U	06/03/15
AGW133-35	ND	--	0.2 U	09/09/08	ND	--	0.2 U	09/09/08	ND	--	0.2 U	09/09/08	ND	--	0.2 U	09/09/08
AGW133-45	ND	--	0.2 U	09/09/08	ND	--	0.2 U	09/09/08	ND	--	0.2 U	09/09/08	ND	--	0.2 U	09/09/08
AGW134	ND	--	0.5 U	12/08/15	ND	--	0.2 U	12/08/15	ND	--	0.2 U	12/08/15	**0.28**	06/03/09	0.020 U	12/08/15
AGW135	ND	--	0.5 U	12/08/15	**0.3**	12/03/08	**0.16**	12/08/15	**3.1**	12/03/08	**1.6**	12/08/15	**0.16**	12/03/08	**0.067**	12/08/15
AGW136	ND	--	0.5 U	11/30/15	ND	--	0.2 U	11/30/15	**3.9**	12/03/08	**3.3**	11/30/15	**0.029**	06/04/09	0.020 U	11/30/15
AGW136-35	ND	--	0.2 U	09/09/08	ND	--	0.2 U	09/09/08	**5.3**	09/09/08	**5.3**	09/09/08	ND	--	0.2 U	09/09/08
AGW136-45	ND	--	0.2 U	09/09/08	ND	--	0.2 U	09/09/08	**5.7**	09/09/08	**5.7**	09/09/08	ND	--	0.2 U	09/09/08
AGW137	ND	--	0.5 U	11/30/15	ND	--	0.2 U	11/30/15	**6.5**	12/01/09	**5.8**	11/30/15	**0.042**	12/10/08	**0.033**	11/30/15
AGW137-55	ND	--	0.2 U	10/30/08	ND	--	0.2 U	10/30/08	**7.3**	10/30/08	**7.3**	10/30/08	ND	--	0.2 U	10/30/08
AGW137-65	ND	--	0.2 U	10/30/08	ND	--	0.2 U	10/30/08	**7.2**	10/30/08	**7.2**	10/30/08	ND	--	0.2 U	10/30/08
AGW138	ND	--	0.5 U	11/30/15	ND	--	0.2 U	11/30/15	**1**	06/04/09	**0.7**	11/30/15	ND	--	0.2 U	11/30/15
AGW139	**0.2**	12/02/09	0.5 U	11/30/15	**0.2**	09/23/09	**0.089**	11/30/15	**6.1**	06/04/09	**3.8**	11/30/15	ND	--	0.2 U	11/30/15
AGW140	ND	--	0.5 U	12/03/15	ND	--	0.2 U	12/03/15	**8.3**	12/03/09	**4.3**	12/03/15	**1**	12/03/09	**0.21**	12/03/15
AGW141	ND	--	0.5 U	11/30/15	**0.056**	05/30/14	**0.047**	11/30/15	**3.6**	03/12/09	**2.5**	11/30/15	ND	--	0.2 U	11/30/15
AGW142	ND	--	0.5 U	11/30/15	ND	--	0.2 U	11/30/15	**1.2**	12/02/09	**0.3**	11/30/15	ND	--	0.2 U	11/30/15

Table 8-1
Maximum and Most Recent Groundwater Results: TCA, PCE, TCE, and VC
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte:	1,1,1-Trichloroethane				Tetrachloroethene				Trichloroethene				Vinyl Chloride			
SL:	200 µg/L				5 µg/L				0.54 µg/L				0.029 µg/L			
Well/Boring	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
AGW143	ND	--	0.5 U	12/08/15	ND	--	0.2 U	12/08/15	ND	--	0.2 U	12/08/15	ND	--	0.2 U	12/08/15
AGW144	ND	--	0.5 U	12/04/15	ND	--	0.2 U	12/04/15	**1.3**	06/17/14	**0.9**	12/04/15	**0.34**	06/20/11	**0.3**	12/04/15
AGW145	ND	--	0.5 U	12/04/15	ND	--	0.2 U	12/04/15	**15**	06/17/14	**12**	12/04/15	**1.8**	06/20/11	**0.8**	12/04/15
AGW146	ND	--	0.5 U	12/04/15	ND	--	0.2 U	12/04/15	**5.2**	06/17/14	**3.9**	12/04/15	**0.36 J**	09/01/10	**0.13**	12/04/15
AGW147	ND	--	0.5 U	12/02/15	ND	--	0.2 U	12/02/15	ND	--	0.2 U	12/02/15	**0.18**	03/09/10	0.020 U	12/02/15
AGW148	ND	--	0.5 U	12/02/15	**0.047**	12/10/12	**0.04**	12/02/15	**6.4**	12/02/09	**4**	12/02/15	**0.13**	10/28/09	**0.044**	12/02/15
AGW149	**0.2 J**	06/23/11	0.5 U	12/02/15	**0.039**	12/06/13	0.2 U	12/02/15	**5.5**	06/23/11	**4.2**	12/02/15	**0.025**	06/10/10	0.2 U	12/02/15
AGW150	ND	--	0.5 U	11/30/15	**0.053**	12/10/12	0.2 U	11/30/15	**3.6**	10/28/09	**1.6**	11/30/15	ND	--	0.2 U	11/30/15
AGW150-90	ND	--	0.2 U	10/05/09	ND	--	0.2 U	10/05/09	**0.3**	10/05/09	**0.3**	10/05/09	ND	--	0.020 U	10/05/09
AGW151	ND	--	0.5 U	11/30/15	**0.053**	12/02/09	0.2 U	11/30/15	**1.2**	10/28/09	**0.5**	11/30/15	ND	--	0.2 U	11/30/15
AGW152	ND	--	0.5 U	12/03/15	ND	--	0.2 U	12/03/15	ND	--	0.2 U	12/03/15	**6.8**	12/08/09	**3**	12/03/15
AGW153	ND	--	0.5 U	06/03/15	**0.2**	06/23/14	0.2 U	06/03/15	ND	--	0.2 U	06/03/15	**0.17**	10/29/09	0.020 U	06/03/15
AGW154	ND	--	0.5 U	12/03/15	ND	--	0.2 U	12/03/15	**0.6**	12/04/12	**0.5**	12/03/15	**0.05 J**	09/01/10	**0.03**	12/03/15
AGW155	ND	--	0.5 U	12/03/15	ND	--	0.2 U	12/03/15	**0.6**	06/02/10	0.2 U	12/03/15	**9.4**	06/13/11	**3.3**	12/03/15
AGW156	ND	--	0.5 U	12/03/15	**0.022**	03/15/10	0.020 U	12/03/15	**7.4**	06/02/10	0.2 U	12/03/15	**2.1**	06/02/15	**1.6**	12/03/15
AGW157	ND	--	0.5 U	12/07/15	**0.074**	06/17/14	**0.029**	12/07/15	**5.4**	06/20/11	**2.7**	12/07/15	**2.2**	06/08/10	**0.6**	12/07/15
AGW157-30	ND	--	0.2 U	03/01/10	**0.073**	03/01/10	**0.073**	03/01/10	**3.2**	03/01/10	**3.2**	03/01/10	**0.5**	03/01/10	**0.5**	03/01/10
AGW158	ND	--	0.5 U	12/09/15	**0.3**	12/09/15	**0.3**	12/09/15	**4.3**	12/15/10	**2.8**	12/09/15	**0.3**	03/09/10	**0.057**	12/09/15
AGW158-30	ND	--	0.2 U	02/24/10	**0.13**	02/24/10	**0.13**	02/24/10	**2.1**	02/24/10	**2.1**	02/24/10	**0.078**	02/24/10	**0.078**	02/24/10
AGW159	ND	--	0.5 U	12/09/15	**0.098**	03/29/10	**0.058**	12/09/15	**5.7**	12/15/10	**4.4**	12/09/15	**0.3**	12/15/10	**0.14**	12/09/15
AGW160	**0.3**	12/15/10	0.5 U	12/04/15	**0.031**	12/10/12	0.2 U	12/04/15	**5.4**	12/15/10	**3.5**	12/04/15	**0.03**	03/09/10	0.2 U	12/04/15
AGW160-30	ND	--	0.2 U	02/25/10	ND	--	0.020 U	02/25/10	ND	--	0.2 U	02/25/10	ND	--	0.020 U	02/25/10
AGW161	ND	--	0.5 U	12/02/15	**0.053**	12/03/13	0.2 U	12/02/15	**3.3**	12/14/10	**1.9**	12/02/15	ND	--	0.2 U	12/02/15
AGW161-30	ND	--	0.2 U	03/02/10	ND	--	0.020 U	03/02/10	ND	--	0.2 U	03/02/10	ND	--	0.020 U	03/02/10
AGW162	ND	--	0.5 U	12/07/15	**0.029**	05/29/14	**0.022**	12/07/15	**1.2**	06/09/10	**0.7**	12/07/15	ND	--	0.2 U	12/07/15
AGW162-30	ND	--	0.2 U	02/24/10	ND	--	0.020 U	02/24/10	ND	--	0.2 U	02/24/10	ND	--	0.020 U	02/24/10
AGW163	ND	--	0.5 U	12/07/15	**0.08**	03/03/13	**0.064**	12/07/15	**5**	12/04/12	**4.4**	12/07/15	**0.039**	09/15/10	**0.025**	12/07/15
AGW163-28	ND	--	0.2 U	08/26/10	**0.3**	08/26/10	**0.3**	08/26/10	**0.8**	08/26/10	**0.8**	08/26/10	ND	--	0.020 U	08/26/10
AGW164	ND	--	0.5 U	12/08/15	**0.078**	03/03/13	**0.029**	12/08/15	**1.8**	12/06/12	**1.7**	12/08/15	**0.54**	09/15/10	**0.1**	12/08/15
AGW164-29	ND	--	0.2 U	08/24/10	ND	--	0.020 U	08/24/10	**0.9**	08/24/10	**0.9**	08/24/10	**4.5J**	08/24/10	**4.5 J**	08/24/10
AGW165	ND	--	0.5 U	12/03/15	**0.077**	12/09/13	**0.06**	12/03/15	**2.8**	12/08/14	**2.3**	12/03/15	**0.34**	06/19/14	**0.16**	12/03/15
AGW165-55	ND	--	0.2 U	08/25/10	ND	--	0.020 U	08/25/10	**0.6**	08/25/10	**0.6**	08/25/10	**0.4 J**	08/25/10	**0.4 J**	08/25/10
AGW166	ND	--	0.5 U	12/09/15	ND	--	0.020 U	12/09/15	ND	--	0.2 U	12/09/15	**0.4**	04/23/12	**0.22**	12/09/15
AGW166-30	ND	--	0.2 U	10/26/10	**0.089**	10/26/10	**0.089**	10/26/10	**3.4**	10/26/10	**3.4**	10/26/10	**0.6**	10/26/10	**0.6**	10/26/10
AGW167	ND	--	0.5 U	12/09/15	ND	--	0.2 U	12/09/15	**6.3**	05/29/14	**4.8**	12/09/15	**0.4**	04/23/12	**0.18**	12/09/15
AGW168	ND	--	0.5 U	12/09/15	**0.021**	05/29/14	0.020 U	12/09/15	**6**	05/29/14	**4.6**	12/09/15	**0.24**	06/22/11	**0.064**	12/09/15
AGW168-29	ND	--	0.2 U	10/28/10	**0.085**	10/28/10	**0.085**	10/28/10	**3**	10/28/10	**3**	10/28/10	**0.076**	10/28/10	**0.076**	10/28/10
AGW169	ND	--	0.5 U	12/09/15	ND	--	0.2 U	12/09/15	**6.7**	05/29/14	**5.8**	12/09/15	**0.2**	12/14/10	**0.061**	12/09/15
AGW170	ND	--	0.5 U	12/09/15	**0.3**	06/12/12	**0.21**	12/09/15	**4.1**	12/14/10	**2.8**	12/09/15	**0.061**	12/14/10	**0.031**	12/09/15
AGW170-28.5	ND	--	0.2 U	11/01/10	**0.12**	11/01/10	**0.12**	11/01/10	**3.6**	11/01/10	**3.6**	11/01/10	**0.069**	11/01/10	**0.069**	11/01/10
AGW171	ND	--	0.5 U	12/09/15	**0.12**	06/09/15	**0.11**	12/09/15	**3.4**	12/15/10	**2.2**	12/09/15	**0.027**	12/15/10	0.2 U	12/09/15
AGW172	**0.2**	12/08/11	0.5 U	12/08/15	**0.035**	03/04/13	0.2 U	12/08/15	**6.8**	04/23/12	**5.6**	12/08/15	**0.02**	03/08/11	0.2 U	12/08/15
AGW173	ND	--	0.5 U	12/08/15	**0.035**	03/04/13	0.2 U	12/08/15	**4.7**	06/13/12	**2.2**	12/08/15	**0.025**	06/24/11	0.020 U	12/08/15
AGW173-50	ND	--	0.2 U	09/01/10	ND	--	0.2 U	09/01/10	**0.7**	09/01/10	**0.7**	09/01/10	ND	--	0.2 U	09/01/10
AGW174	ND	--	0.5 U	12/02/15	**0.023**	12/03/13	0.2 U	12/02/15	**3.9**	12/14/10	**2**	12/02/15	ND	--	0.2 U	12/02/15
AGW174-59	ND	--	0.2 U	08/23/10	ND	--	0.2 U	08/23/10	**1.1**	08/23/10	**1.1**	08/23/10	ND	--	0.2 U	08/23/10
AGW175	ND	--	0.5 U	12/02/15	ND	--	0.2 U	12/02/15	**4.3**	12/14/10	**2.4**	12/02/15	ND	--	0.2 U	12/02/15

Table 8-1
Maximum and Most Recent Groundwater Results: TCA, PCE, TCE, and VC
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte:	1,1,1-Trichloroethane				Tetrachloroethene				Trichloroethene				Vinyl Chloride			
SL:	200 µg/L				5 µg/L				0.54 µg/L				0.029 µg/L			
Well/Boring	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
AGW176	ND	--	0.5 U	12/09/15	**0.021**	12/10/12	0.2 U	12/09/15	**5.6**	12/15/10	**3.8**	12/09/15	**0.021**	12/15/10	0.020 U	12/09/15
AGW177	ND	--	0.5 U	12/02/15	**0.16**	06/12/12	**0.079**	12/02/15	**6.3**	03/04/14	**4.3**	12/02/15	**0.058**	03/08/11	0.020 U	12/02/15
AGW177-29	ND	--	0.2 U	09/21/10	**0.072**	09/21/10	**0.072**	09/21/10	**8.6**	09/21/10	**8.6**	09/21/10	**2**	09/21/10	**2**	09/21/10
AGW178	ND	--	0.5 U	12/02/15	**0.078**	06/04/15	**0.065**	12/02/15	**6.1**	06/12/12	**4.4**	12/02/15	**0.088**	09/29/10	**0.021**	12/02/15
AGW179	ND	--	0.5 U	12/02/15	ND	--	0.2 U	12/02/15	**1.2**	09/29/10	**0.3**	12/02/15	**0.13**	06/22/11	**0.078**	12/02/15
AGW179-30	ND	--	0.2 U	09/22/10	ND	--	0.020 U	09/22/10	ND	--	0.2 U	09/22/10	**0.093**	09/22/10	**0.093**	09/22/10
AGW180	**0.4**	03/08/11	0.5 U	12/02/15	**0.068**	12/02/15	**0.068**	12/02/15	**6.3**	12/15/10	**3.9**	12/02/15	ND	--	0.2 U	12/02/15
AGW181	ND	--	0.5 U	12/01/15	ND	--	0.2 U	12/01/15	**6.3**	12/02/13	**4.8**	12/01/15	**0.05**	12/04/12	**0.048**	12/01/15
AGW182	ND	--	0.5 U	12/04/15	**0.11**	04/29/11	0.020 U	12/04/15	**6.7**	04/29/11	**1.7**	12/04/15	**0.4**	12/16/11	**0.2**	12/04/15
AGW182-29	ND	--	0.2 U	04/29/11	ND	--	0.2 U	04/29/11	**1.4**	04/29/11	**1.4**	04/29/11	**0.3**	04/29/11	**0.3**	04/29/11
AGW183	ND	--	0.5 U	12/04/15	ND	--	0.2 U	12/04/15	ND	--	0.2 U	12/04/15	**0.044**	09/07/11	0.020 U	12/04/15
AGW184	ND	--	0.5 U	12/01/15	ND	--	0.2 U	12/01/15	**0.9**	05/23/11	**0.5**	12/01/15	ND	--	0.2 U	12/01/15
AGW185	ND	--	0.5 U	12/02/15	ND	--	0.2 U	12/02/15	**4.4**	12/03/12	**3.4**	12/02/15	ND	--	0.2 U	12/02/15
AGW186	ND	--	0.5 U	12/01/15	ND	--	0.2 U	12/01/15	**1.2**	06/24/11	**0.6**	12/01/15	ND	--	0.2 U	12/01/15
AGW187	ND	--	0.5 U	12/02/15	ND	--	0.2 U	12/02/15	**2.9**	12/13/11	**2**	12/02/15	**0.022**	04/25/12	0.2 U	12/02/15
AGW188	ND	--	0.5 U	12/01/15	ND	--	0.2 U	12/01/15	**5.6**	09/04/12	**4.6**	12/01/15	**0.035**	09/08/11	**0.025**	12/01/15
AGW189	ND	--	0.5 U	12/01/15	ND	--	0.2 U	12/01/15	**1.5**	06/24/11	**0.7**	12/01/15	ND	--	0.2 U	12/01/15
AGW190	ND	--	0.5 U	12/08/15	ND	--	0.2 U	12/08/15	**1.9**	06/21/12	**1.5**	12/08/15	**0.021**	09/05/12	0.2 U	12/08/15
AGW191	ND	--	0.5 U	12/08/15	ND	--	0.2 U	12/08/15	ND	--	0.2 U	12/08/15	ND	--	0.020 U	12/08/15
AGW192	ND	--	0.5 U	12/08/15	ND	--	0.2 U	12/08/15	ND	--	0.2 U	12/08/15	**0.13**	09/08/11	0.020 U	12/08/15
AGW192-25	ND	--	0.2 U	08/30/11	ND	--	0.020 U	08/30/11	**1.2**	08/30/11	**1.2**	08/30/11	**0.6**	08/30/11	**0.6**	08/30/11
AGW193	ND	--	0.5 U	12/09/15	**0.11**	06/12/12	**0.074**	12/09/15	**3.8**	03/05/14	**3**	12/09/15	**0.4**	12/05/12	**0.3**	12/09/15
AGW194	ND	--	0.5 U	12/09/15	**0.3**	05/29/14	**0.24**	12/09/15	**2.9**	04/23/12	**2.4**	12/09/15	**0.059**	09/08/11	**0.03**	12/09/15
AGW195	**0.6**	06/11/13	0.5 U	12/07/15	**0.037**	12/10/12	**0.034**	12/07/15	**9.9**	06/11/13	**8.4**	12/07/15	**0.031**	10/19/11	0.020 U	12/07/15
AGW195-30	ND	--	0.2 U	10/02/11	ND	--	0.020 U	10/02/11	ND	--	0.2 U	10/02/11	**0.32**	10/02/11	**0.32**	10/02/11
AGW196	ND	--	0.5 U	12/07/15	ND	--	0.2 U	12/07/15	ND	--	0.2 U	12/07/15	**2.1**	06/04/15	**2**	12/07/15
AGW197	**0.3**	12/08/11	0.5 U	12/09/15	**0.028**	10/19/11	0.020 U	12/09/15	**14**	09/06/12	**9.8**	12/09/15	**0.025**	10/19/11	0.2 U	12/09/15
AGW197-29	ND	--	0.2 U	10/03/11	ND	--	0.020 U	10/03/11	**3.6**	10/03/11	**3.6**	10/03/11	**0.71**	10/03/11	**0.71**	10/03/11
AGW198	**0.3 J**	10/19/11	0.5 U	12/09/15	ND	--	0.2 U	12/09/15	**10**	06/13/12	**7.7**	12/09/15	**0.027**	12/10/12	0.020 U	12/09/15
AGW199	ND	--	0.5 U	12/08/15	ND	--	0.2 U	12/08/15	**9.8**	12/09/14	**8.5**	12/08/15	**0.039**	10/19/11	**0.029**	12/08/15
AGW199-28	ND	--	0.2 U	10/06/11	ND	--	0.020 U	10/06/11	**0.8**	10/06/11	**0.8**	10/06/11	**0.1**	10/06/11	**0.1**	10/06/11
AGW200-1	ND	--	0.5 U	04/26/12	ND	--	0.020 U	04/26/12	**0.2**	11/18/11	0.2 U	04/26/12	**1.8**	04/26/12	**1.8**	04/26/12
AGW200-2	ND	--	0.5 U	12/08/15	ND	--	0.2 U	12/08/15	**0.4**	06/04/15	**0.3**	12/08/15	**2.3**	03/04/14	**2.1**	12/08/15
AGW200-3	ND	--	0.5 U	04/26/12	ND	--	0.020 U	04/26/12	**0.2**	11/18/11	0.2 U	04/26/12	**2**	04/26/12	**2**	04/26/12
AGW200-4	ND	--	0.5 U	04/26/12	ND	--	0.020 U	04/26/12	ND	--	0.2 U	04/26/12	**1.2**	11/18/11	**0.5**	04/26/12
AGW200-5	ND	--	0.5 U	12/08/15	ND	--	0.2 U	12/08/15	**2.5**	11/18/11	**1.5**	12/08/15	**1.9**	12/04/12	**1.7**	12/08/15
AGW200-6	ND	--	0.5 U	12/08/15	ND	--	0.2 U	12/08/15	**1.9**	09/05/12	**0.8**	12/08/15	**2**	12/04/12	**1.1**	12/08/15
AGW200-7	ND	--	0.5 U	04/26/12	ND	--	0.020 U	04/26/12	**1**	11/18/11	**0.9**	04/26/12	**0.05**	04/26/12	**0.05**	04/26/12
AGW201-1	ND	--	0.5 U	04/27/12	**0.024**	11/21/11	0.020 U	04/27/12	**0.8**	11/21/11	**0.6**	04/27/12	**2.5**	04/27/12	**2.5**	04/27/12
AGW201-2	ND	--	0.5 U	12/08/15	**0.021**	11/21/11	0.2 U	12/08/15	**0.8**	05/27/14	**0.5**	12/08/15	**2.6**	12/02/13	**2**	12/08/15
AGW201-3	ND	--	0.5 U	04/27/12	ND	--	0.020 U	04/27/12	**0.9**	04/27/12	**0.9**	04/27/12	**3.1**	04/27/12	**3.1**	04/27/12
AGW201-4	ND	--	0.5 U	04/27/12	ND	--	0.020 U	04/27/12	**1.3**	11/21/11	**0.5**	04/27/12	**0.7**	11/21/11	**0.6**	04/27/12
AGW201-5	ND	--	0.5 U	12/08/15	**0.12**	05/27/14	0.2 U	12/08/15	**6.9**	06/21/12	**5.3**	12/08/15	**1.4**	03/04/14	**1**	12/08/15
AGW201-6	ND	--	0.5 U	12/08/15	**0.076**	11/21/11	**0.056**	12/08/15	**11**	06/21/12	**8.2**	12/08/15	**0.95**	09/05/12	**0.5**	12/08/15
AGW201-7	ND	--	0.5 U	04/27/12	ND	--	0.020 U	04/27/12	**2.4**	11/21/11	**2**	04/27/12	**0.024**	04/27/12	**0.024**	04/27/12
AGW202-1	ND	--	0.5 U	04/27/12	ND	--	0.020 U	04/27/12	ND	--	0.2 U	04/27/12	**4**	04/27/12	**4**	04/27/12
AGW202-2	ND	--	0.5 U	12/08/15	**0.13**	06/04/13	**0.051**	12/08/15	**2.3**	04/27/12	**1.6**	12/08/15	**1.2**	12/08/15	**1.2**	12/08/15

Table 8-1
Maximum and Most Recent Groundwater Results: TCA, PCE, TCE, and VC
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte:	1,1,1-Trichloroethane				Tetrachloroethene				Trichloroethene				Vinyl Chloride			
SL:	200 µg/L				5 µg/L				0.54 µg/L				0.029 µg/L			
Well/Boring	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
AGW202-3	ND	--	0.5 U	04/27/12	**0.099**	11/22/11	**0.071**	04/27/12	**3.9**	11/22/11	**3.6**	04/27/12	**0.56**	04/27/12	**0.56**	04/27/12
AGW202-4	ND	--	0.5 U	12/08/15	**0.16**	04/27/12	0.2 U	12/08/15	**5.5**	04/27/12	**3.6**	12/08/15	**3.9**	09/05/13	**0.4**	12/08/15
AGW202-5	ND	--	0.5 U	04/27/12	**0.26**	11/22/11	**0.25**	04/27/12	**4.5**	04/27/12	**4.5**	04/27/12	**0.12**	04/27/12	**0.12**	04/27/12
AGW202-6	ND	--	0.5 U	12/08/15	ND	--	0.020 U	12/08/15	**1.3**	06/22/12	**1**	12/08/15	ND	--	0.2 U	12/08/15
AGW202-7	ND	--	0.5 U	04/27/12	ND	--	0.020 U	04/27/12	**0.2**	04/27/12	**0.2**	04/27/12	ND	--	0.020 U	04/27/12
AGW203-1	ND	--	0.5 U	04/30/12	**0.23**	04/30/12	**0.23**	04/30/12	**1.5**	04/30/12	**1.5**	04/30/12	ND	--	0.020 U	04/30/12
AGW203-2	ND	--	0.5 U	12/08/15	**0.5**	06/22/12	**0.41**	12/08/15	**1.7**	06/22/12	**1.3**	12/08/15	ND	--	0.2 U	12/08/15
AGW203-3	ND	--	0.5 U	04/30/12	**0.4**	04/30/12	**0.4**	04/30/12	**1.1**	04/30/12	**1.1**	04/30/12	ND	--	0.020 U	04/30/12
AGW203-4	ND	--	0.5 U	12/08/15	**0.6**	06/22/12	**0.42**	12/08/15	**5.3**	06/22/12	**3.3**	12/08/15	ND	--	0.2 U	12/08/15
AGW203-5	ND	--	0.5 U	04/30/12	**0.6**	04/30/12	**0.6**	04/30/12	**0.6**	04/30/12	**0.6**	04/30/12	ND	--	0.020 U	04/30/12
AGW203-6	ND	--	0.5 U	12/08/15	**0.15**	12/04/13	**0.13**	12/08/15	**0.4**	11/22/11	**0.2**	12/08/15	ND	--	0.2 U	12/08/15
AGW204	ND	--	0.5 U	06/02/15	**0.3**	06/02/15	**0.3**	06/02/15	ND	--	0.2 U	06/02/15	ND	--	0.020 U	06/02/15
AGW204-30	ND	--	0.2 U	10/27/11	**0.33**	10/27/11	**0.33**	10/27/11	**0.2**	10/27/11	**0.2**	10/27/11	ND	--	0.020 U	10/27/11
AGW205	ND	--	0.5 U	06/02/15	**0.088**	12/13/11	0.2 U	06/02/15	ND	--	0.2 U	06/02/15	ND	--	0.020 U	06/02/15
AGW205-30	ND	--	0.2 U	10/27/11	**0.17**	10/27/11	**0.17**	10/27/11	ND	--	0.2 U	10/27/11	ND	--	0.020 U	10/27/11
AGW206	ND	--	0.5 U	12/07/15	**0.4**	06/02/15	**0.3**	12/07/15	**0.8**	12/04/13	**0.7**	12/07/15	ND	--	0.2 U	12/07/15
AGW206-29	ND	--	0.2 U	10/28/11	**0.3**	10/28/11	**0.3**	10/28/11	**1.6**	10/28/11	**1.6**	10/28/11	ND	--	0.020 U	10/28/11
AGW207-1	ND	--	0.5 U	04/23/12	**0.026**	12/08/11	0.020 U	04/23/12	**9.1**	04/23/12	**9.1**	04/23/12	**1.3**	04/23/12	**1.3**	04/23/12
AGW207-2	ND	--	0.5 U	11/30/15	**0.04**	03/05/13	0.2 U	11/30/15	**10**	12/04/12	**7.6**	11/30/15	**0.21**	12/08/11	**0.2**	11/30/15
AGW207-3	ND	--	0.5 U	04/23/12	**0.063**	04/23/12	**0.063**	04/23/12	**8.9**	04/23/12	**8.9**	04/23/12	**0.092**	04/23/12	**0.092**	04/23/12
AGW207-4	ND	--	0.5 U	11/30/15	**0.064**	12/08/11	0.2 U	11/30/15	**8.5**	04/23/12	**6.7**	11/30/15	**0.23**	11/30/15	**0.23**	11/30/15
AGW207-5	ND	--	0.5 U	04/23/12	**0.058**	04/23/12	**0.058**	04/23/12	**7.5**	04/23/12	**7.5**	04/23/12	**0.047**	04/23/12	**0.047**	04/23/12
AGW207-7	ND	--	0.5 U	11/30/15	**0.069**	09/04/12	0.2 U	11/30/15	**7.6**	12/04/12	**5.9**	11/30/15	**0.052**	04/23/12	**0.022**	11/30/15
AGW208-1	ND	--	0.5 U	04/23/12	ND	--	0.020 U	04/23/12	**2.5**	04/23/12	**2.5**	04/23/12	**0.98**	04/23/12	**0.98**	04/23/12
AGW208-2	ND	--	0.5 U	12/03/15	**0.021**	12/08/11	0.2 U	12/03/15	**5.7**	12/03/12	**3.7**	12/03/15	**2.2**	05/28/14	**0.5**	12/03/15
AGW208-3	ND	--	0.5 U	04/23/12	**0.022**	12/08/11	0.020 U	04/23/12	**5.4**	12/08/11	**4.5**	04/23/12	**0.53**	12/08/11	**0.23**	04/23/12
AGW208-4	ND	--	0.5 U	12/03/15	**0.066**	04/24/12	0.2 U	12/03/15	**6**	04/24/12	**1.4**	12/03/15	**0.23**	12/03/15	**0.23**	12/03/15
AGW208-5	**0.3**	12/09/11	0.5 U	04/24/12	**0.071**	12/09/11	**0.07**	04/24/12	**7**	04/24/12	**7**	04/24/12	**0.028**	04/24/12	**0.028**	04/24/12
AGW208-6	**0.3**	12/09/11	0.5 U	12/03/15	**0.075**	04/24/12	0.2 U	12/03/15	**7.5**	06/21/12	**5.5**	12/03/15	**0.033**	04/24/12	0.2 U	12/03/15
AGW208-7	ND	--	0.5 U	04/24/12	ND	--	0.020 U	04/24/12	**4.2**	04/24/12	**4.2**	04/24/12	**0.046**	04/24/12	**0.046**	04/24/12
AGW209-1	ND	--	0.5 U	04/24/12	ND	--	0.020 U	04/24/12	ND	--	0.2 U	04/24/12	**2.4**	12/12/11	**2.2**	04/24/12
AGW209-2	ND	--	0.5 U	12/04/15	ND	--	0.2 U	12/04/15	ND	--	0.2 U	12/04/15	**2.8**	03/03/14	**2.1**	12/04/15
AGW209-3	ND	--	0.5 U	04/24/12	ND	--	0.020 U	04/24/12	**0.3**	12/09/11	0.2 U	04/24/12	**4.9**	04/24/12	**4.9**	04/24/12
AGW209-4	ND	--	0.5 U	04/24/12	ND	--	0.020 U	04/24/12	ND	--	0.2 U	04/24/12	**4.8**	04/24/12	**4.8**	04/24/12
AGW209-5	ND	--	0.5 U	12/04/15	ND	--	0.2 U	12/04/15	**2.5**	05/28/14	**2.1**	12/04/15	**1.4**	12/04/15	**1.4**	12/04/15
AGW209-6	**0.4**	12/09/11	0.5 U	12/04/15	**0.065**	09/04/12	0.2 U	12/04/15	**7.4**	06/21/12	**5.7**	12/04/15	**0.024**	05/28/14	**0.021**	12/04/15
AGW209-7	**0.4**	12/09/11	0.5 U	04/24/12	**0.05**	04/24/12	**0.05**	04/24/12	**7.4**	04/24/12	**7.4**	04/24/12	**0.023**	04/24/12	**0.023**	04/24/12
AGW210-1	ND	--	0.5 U	04/24/12	ND	--	0.020 U	04/24/12	ND	--	0.2 U	04/24/12	ND	--	0.020 U	04/24/12
AGW210-2	ND	--	0.5 U	06/02/15	ND	--	0.2 U	06/02/15	ND	--	0.2 U	06/02/15	ND	--	0.020 U	06/02/15
AGW210-3	ND	--	0.5 U	04/25/12	ND	--	0.020 U	04/25/12	ND	--	0.2 U	04/25/12	ND	--	0.020 U	04/25/12
AGW210-4	ND	--	0.5 U	04/25/12	ND	--	0.020 U	04/25/12	**1.6**	04/25/12	**1.6**	04/25/12	**0.071**	04/25/12	**0.071**	04/25/12
AGW210-5	ND	--	0.5 U	12/07/15	ND	--	0.2 U	12/07/15	**3.3**	05/28/14	**1.4**	12/07/15	**0.083**	04/25/12	**0.062**	12/07/15
AGW210-6	**0.3**	12/12/11	0.5 U	12/07/15	ND	--	0.2 U	12/07/15	**6.5**	06/21/12	**4.9**	12/07/15	ND	--	0.2 U	12/07/15
AGW210-7	ND	--	0.5 U	04/25/12	ND	--	0.020 U	04/25/12	ND	--	0.2 U	04/25/12	ND	--	0.020 U	04/25/12
AGW211-1	ND	--	0.5 U	04/25/12	ND	--	0.020 U	04/25/12	ND	--	0.2 U	04/25/12	ND	--	0.020 U	04/25/12
AGW211-2	ND	--	0.5 U	06/02/15	ND	--	0.2 U	06/02/15	**0.3**	03/05/13	0.2 U	06/02/15	ND	--	0.020 U	06/02/15
AGW211-3	ND	--	0.5 U	04/25/12	ND	--	0.020 U	04/25/12	ND	--	0.2 U	04/25/12	ND	--	0.020 U	04/25/12

Table 8-1
Maximum and Most Recent Groundwater Results: TCA, PCE, TCE, and VC
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte:	1,1,1-Trichloroethane				Tetrachloroethene				Trichloroethene				Vinyl Chloride			
SL:	200 µg/L				5 µg/L				0.54 µg/L				0.029 µg/L			
Well/Boring	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
AGW211-4	ND	--	0.5 U	04/25/12	ND	--	0.020 U	04/25/12	**6.3**	04/25/12	**6.3**	04/25/12	ND	--	0.020 U	04/25/12
AGW211-5	ND	--	0.5 U	12/04/15	ND	--	0.2 U	12/04/15	**6**	06/20/12	**3.7**	12/04/15	ND	--	0.020 U	12/04/15
AGW211-6	ND	--	0.5 U	12/04/15	ND	--	0.2 U	12/04/15	**4.9**	06/20/12	**0.9**	12/04/15	**0.21**	09/04/12	0.2 U	12/04/15
AGW211-7	ND	--	0.5 U	04/26/12	ND	--	0.020 U	04/26/12	ND	--	0.2 U	04/26/12	ND	--	0.020 U	04/26/12
AGW212-1	ND	--	0.5 U	04/26/12	ND	--	0.020 U	04/26/12	ND	--	0.2 U	04/26/12	ND	--	0.020 U	04/26/12
AGW212-2	ND	--	0.5 U	06/03/15	ND	--	0.020 U	06/03/15	ND	--	0.2 U	06/03/15	ND	--	0.020 U	06/03/15
AGW212-3	ND	--	0.5 U	04/26/12	ND	--	0.020 U	04/26/12	**0.4**	12/13/11	0.2 U	04/26/12	ND	--	0.020 U	04/26/12
AGW212-5	ND	--	0.5 U	12/07/15	**0.048**	06/03/15	**0.044**	12/07/15	**3.3**	12/13/11	**2.1**	12/07/15	ND	--	0.2 U	12/07/15
AGW212-6	ND	--	0.5 U	04/26/12	ND	--	0.020 U	04/26/12	**2.8**	12/13/11	**2.6**	04/26/12	ND	--	0.020 U	04/26/12
AGW212-7	**0.4**	12/13/11	0.5 U	12/07/15	ND	--	0.020 U	12/07/15	**5.6**	05/28/14	**4.7**	12/07/15	ND	--	0.2 U	12/07/15
AGW213	ND	--	0.5 U	12/01/15	**0.14**	12/04/12	**0.022**	12/01/15	ND	--	0.2 U	12/01/15	**0.029**	09/04/12	**0.024**	12/01/15
AGW213-28	ND	--	0.2 U	11/14/11	**0.04**	11/14/11	**0.04**	11/14/11	**0.4**	11/14/11	**0.4**	11/14/11	**0.4**	11/14/11	**0.4**	11/14/11
AGW214	ND	--	0.5 U	12/01/15	**0.026**	03/04/13	0.2 U	12/01/15	**3.9**	04/27/12	**2.7**	12/01/15	**0.026**	12/01/15	**0.026**	12/01/15
AGW214-27	ND	--	0.2 U	11/15/11	ND	--	0.2 U	11/15/11	**3.2**	11/15/11	**3.2**	11/15/11	ND	--	0.2 U	11/15/11
AGW215	ND	--	0.5 U	12/01/15	**0.025**	03/04/13	0.020 U	12/01/15	ND	--	0.2 U	12/01/15	ND	--	0.020 U	12/01/15
AGW215-29	ND	--	0.2 U	11/16/11	ND	--	0.020 U	11/16/11	ND	--	0.2 U	11/16/11	ND	--	0.020 U	11/16/11
AGW216	ND	--	0.5 U	12/04/15	**0.026**	03/04/13	0.020 U	12/04/15	**1.3**	12/02/13	**1**	12/04/15	**0.022**	06/04/13	0.2 U	12/04/15
AGW216-30	ND	--	0.2 U	11/17/11	ND	--	0.020 U	11/17/11	ND	--	0.2 U	11/17/11	ND	--	0.020 U	11/17/11
AGW217	ND	--	0.5 U	12/01/15	**0.025**	03/04/13	0.020 U	12/01/15	**2.1**	03/03/14	**1.8**	12/01/15	**0.028**	04/27/12	**0.022**	12/01/15
AGW217-29	ND	--	0.2 U	11/18/11	ND	--	0.020 U	11/18/11	ND	--	0.2 U	11/18/11	ND	--	0.020 U	11/18/11
AGW218	ND	--	0.5 U	12/01/15	**0.025**	03/04/13	0.2 U	12/01/15	**4.7**	04/26/12	**3.6**	12/01/15	**0.026**	06/04/13	**0.021**	12/01/15
AGW218-28	ND	--	0.2 U	11/21/11	ND	--	0.020 U	11/21/11	ND	--	0.2 U	11/21/11	ND	--	0.02 U	11/21/11
AGW219	ND	--	0.5 U	12/01/15	ND	--	0.2 U	12/01/15	ND	--	0.2 U	12/01/15	**0.022**	06/04/13	0.020 U	12/01/15
AGW219-30	ND	--	0.2 U	11/22/11	ND	--	0.020 U	11/22/11	ND	--	0.2 U	11/22/11	ND	--	0.02 U	11/22/11
AGW220	ND	--	0.5 U	12/01/15	ND	--	0.020 U	12/01/15	**0.5**	05/27/14	**0.3**	12/01/15	ND	--	0.020 U	12/01/15
AGW220-28	ND	--	0.2 U	11/28/11	ND	--	0.020 U	11/28/11	ND	--	0.2 U	11/28/11	ND	--	0.020 U	11/28/11
AGW221	ND	--	0.5 U	12/03/15	ND	--	0.020 U	12/03/15	ND	--	0.2 U	12/03/15	**0.022**	09/04/12	0.020 U	12/03/15
AGW222	ND	--	0.5 U	12/09/15	**0.5**	06/19/14	**0.2**	12/09/15	**1**	12/27/12	**0.4 J**	12/09/15	ND	--	0.2 U	12/09/15
AGW222-27	ND	--	0.5 U	12/02/12	**0.6**	12/02/12	**0.6**	12/02/12	**1.3**	12/02/12	**1.3**	12/02/12	ND	--	0.020 U	12/02/12
AGW223	ND	--	0.5 U	06/03/15	ND	--	0.020 U	06/03/15	ND	--	0.2 U	06/03/15	ND	--	0.020 U	06/03/15
AGW223-30	ND	--	0.5 U	12/03/12	**0.086**	12/03/12	**0.086**	12/03/12	**1.7**	12/03/12	**1.7**	12/03/12	ND	--	0.020 U	12/03/12
AGW223-60	ND	--	0.5 U	12/04/12	ND	--	0.020 U	12/04/12	**0.4**	12/04/12	**0.4**	12/04/12	**0.095**	12/04/12	**0.095**	12/04/12
AGW223-90	ND	--	0.2 U	12/04/12	ND	--	0.2 U	12/04/12	ND	--	0.2 U	12/04/12	ND	--	0.2 U	12/04/12
AGW224	ND	--	0.5 U	06/05/15	ND	--	0.2 U	06/05/15	ND	--	0.2 U	06/05/15	ND	--	0.020 U	06/05/15
AGW225	ND	--	0.5 U	12/08/15	ND	--	0.2 U	12/08/15	**2.3**	12/01/14	**2.1**	12/08/15	**0.6**	03/05/14	**0.5**	12/08/15
AGW226	ND	--	0.5 U	12/02/15	ND	--	0.2 U	12/02/15	**4.8**	09/10/14	**0.5**	12/02/15	**0.74**	12/04/13	**0.4**	12/02/15
AGW227	ND	--	0.5 U	12/09/15	ND	--	0.2 U	12/09/15	**3.1**	06/05/13	**2.5**	12/09/15	**0.4**	12/04/13	**0.3**	12/09/15
AGW228	ND	--	0.5 U	12/09/15	ND	--	0.2 U	12/09/15	**2.9**	12/02/14	**2.8**	12/09/15	**0.41**	06/05/13	**0.3**	12/09/15
AGW229	ND	--	0.5 U	12/09/15	**0.056**	12/04/13	0.2 U	12/09/15	**2.9**	12/01/14	0.2 U	12/09/15	**0.045**	12/01/14	0.020 U	12/09/15
AGW230	ND	--	0.5 U	12/01/15	ND	--	0.2 U	12/01/15	**1.4**	03/05/14	**1.2**	12/01/15	ND	--	0.2 U	12/01/15
AGW231	ND	--	0.5 U	12/08/15	ND	--	0.2 U	12/08/15	**1.5**	06/11/13	**1.2**	12/08/15	**3.4**	09/06/13	**2.3**	12/08/15
AGW231-9	ND	--	0.5 U	05/19/13	ND	--	0.020 U	05/19/13	ND	--	0.2 U	05/19/13	**2.2**	05/19/13	**2.2**	05/19/13
AGW232	ND	--	0.5 U	12/07/15	ND	--	0.2 U	12/07/15	ND	--	0.2 U	12/07/15	**2**	12/07/15	**2**	12/07/15
AGW232-14	ND	--	0.5 U	05/20/13	ND	--	0.020 U	05/20/13	ND	--	0.2 U	05/20/13	ND	--	0.020 U	05/20/13
AGW233	ND	--	0.5 U	12/07/15	ND	--	0.2 U	12/07/15	ND	--	0.2 U	12/07/15	ND	--	0.2 U	12/07/15
AGW233-30	ND	--	0.5 U	05/21/13	ND	--	0.020 U	05/21/13	ND	--	0.5 U	05/21/13	ND	--	0.020 U	05/21/13
AGW234	ND	--	0.5 U	12/07/15	ND	--	0.2 U	12/07/15	**8.6**	06/05/15	**7.7**	12/07/15	**0.077**	03/06/14	**0.053**	12/07/15

Table 8-1
Maximum and Most Recent Groundwater Results: TCA, PCE, TCE, and VC
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte:	1,1,1-Trichloroethane				Tetrachloroethene				Trichloroethene				Vinyl Chloride			
SL:	200 µg/L				5 µg/L				0.54 µg/L				0.029 µg/L			
Well/Boring	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
AGW234-21	ND	--	0.5 U	05/22/13	ND	--	0.020 U	05/22/13	ND	--	0.5 U	05/22/13	**1.2**	05/22/13	**1.2**	05/22/13
AGW234-57	ND	--	0.5 U	05/22/13	ND	--	0.020 U	05/22/13	**5.8**	05/22/13	**5.8**	05/22/13	**0.1**	05/22/13	**0.1**	05/22/13
AGW235-1	ND	--	0.5 U	09/06/13	ND	--	0.020 U	09/06/13	ND	--	0.2 U	09/06/13	**0.14**	09/06/13	**0.14**	09/06/13
AGW235-2	ND	--	0.5 U	12/08/15	ND	--	0.2 U	12/08/15	ND	--	0.2 U	12/08/15	**2.3**	12/08/15	**2.3**	12/08/15
AGW235-3	ND	--	0.5 U	09/06/13	ND	--	0.020 U	09/06/13	**3.3**	06/12/13	**2.5**	09/06/13	**0.3**	09/06/13	**0.3**	09/06/13
AGW235-4	ND	--	0.5 U	12/08/15	ND	--	0.2 U	12/08/15	**6.2**	06/12/13	**4**	12/08/15	**0.2**	06/12/13	**0.11**	12/08/15
AGW235-5	ND	--	0.5 U	09/06/13	ND	--	0.020 U	09/06/13	**5**	09/06/13	**5**	09/06/13	**0.11**	09/06/13	**0.11**	09/06/13
AGW235-6	ND	--	0.5 U	09/06/13	ND	--	0.020 U	09/06/13	ND	--	0.2 U	09/06/13	ND	--	0.02 U	09/06/13
AGW235-7	ND	--	0.5 U	12/08/15	ND	--	0.2 U	12/08/15	ND	--	0.2 U	12/08/15	ND	--	0.2 U	12/08/15
AGW236	ND	--	0.5 U	12/04/15	ND	--	0.2 U	12/04/15	**8.7**	03/04/14	**6**	12/04/15	**0.074**	03/04/14	**0.065**	12/04/15
AGW236-14	ND	--	0.5 U	05/28/13	ND	--	0.020 U	05/28/13	ND	--	0.2 U	05/28/13	**0.12**	05/28/13	**0.12**	05/28/13
AGW237	ND	--	0.5 U	12/03/15	**0.7**	10/03/13	**0.037**	12/03/15	**12**	10/03/13	**2.4**	12/03/15	**0.096**	10/03/13	**0.043**	12/03/15
AGW238	ND	--	0.5 U	12/03/15	ND	--	0.020 U	12/03/15	ND	--	0.2 U	12/03/15	ND	--	0.020 U	12/03/15
AGW239	ND	--	0.5 U	12/03/15	ND	--	0.020 U	12/03/15	ND	--	0.2 U	12/03/15	**1.4**	12/03/15	**1.4**	12/03/15
AGW239-8.5	ND	--	0.5 U	09/25/13	ND	--	0.020 U	09/25/13	ND	--	0.2 U	09/25/13	ND	--	0.020 U	09/25/13
AGW240-1	ND	--	0.5 U	12/07/15	ND	--	0.020 U	12/07/15	ND	--	0.2 U	12/07/15	**1.1**	03/03/15	**0.3**	12/07/15
AGW240-3	ND	--	0.5 U	06/10/15	ND	--	0.020 U	06/10/15	ND	--	0.2 U	06/10/15	**5.4**	12/01/14	**2.6**	06/10/15
AGW240-5	ND	--	0.5 U	12/07/15	ND	--	0.020 U	12/07/15	ND	--	0.2 U	12/07/15	**6.6**	12/01/14	**4.3**	12/07/15
AGW241-1	ND	--	0.5 U	11/30/15	**0.026**	09/04/14	0.020 U	11/30/15	ND	--	0.2 U	11/30/15	ND	--	0.020 U	11/30/15
AGW241-3	ND	--	0.5 U	06/08/15	ND	--	0.020 U	06/08/15	ND	--	0.2 U	06/08/15	**0.031**	12/03/14	0.020 U	06/08/15
AGW241-5	ND	--	0.5 U	11/30/15	ND	--	0.020 U	11/30/15	ND	--	0.2 U	11/30/15	**0.039**	08/26/15	0.020 U	11/30/15
AGW242-1	ND	--	0.5 U	11/30/15	ND	--	0.020 U	11/30/15	ND	--	0.2 U	11/30/15	**0.4**	03/04/15	**0.096**	11/30/15
AGW242-2	ND	--	0.5 U	11/30/15	ND	--	0.020 U	11/30/15	ND	--	0.2 U	11/30/15	ND	--	0.020 U	11/30/15
AGW242-3	ND	--	0.5 U	12/03/14	ND	--	0.020 U	12/03/14	ND	--	0.2 U	12/03/14	ND	--	0.020 U	12/03/14
AGW242-4	ND	--	0.5 U	12/03/14	ND	--	0.020 U	12/03/14	ND	--	0.2 U	12/03/14	ND	--	0.020 U	12/03/14
AGW242-5	ND	--	0.5 U	11/30/15	ND	--	0.020 U	11/30/15	ND	--	0.2 U	11/30/15	ND	--	0.020 U	11/30/15
AGW242-6	ND	--	0.5 U	12/03/14	ND	--	0.020 U	12/03/14	ND	--	0.2 U	12/03/14	ND	--	0.020 U	12/03/14
AGW243-1	ND	--	0.5 U	11/30/15	**0.024 J**	09/03/14	0.020 U	11/30/15	ND	--	0.2 U	11/30/15	**0.26**	07/14/14	**0.023**	11/30/15
AGW243-3	ND	--	0.5 U	11/30/15	ND	--	0.020 U	11/30/15	ND	--	0.2 U	11/30/15	ND	--	0.020 U	11/30/15
AGW243-5	ND	--	0.5 U	11/30/15	ND	--	0.020 U	11/30/15	ND	--	0.2 U	11/30/15	ND	--	0.020 U	11/30/15
AGW244	ND	--	0.5 U	12/03/15	ND	--	0.020 U	12/03/15	ND	--	0.2 U	12/03/15	**0.14**	07/11/14	0.020 U	12/03/15
AGW245	ND	--	0.5 U	12/03/15	ND	--	0.020 U	12/03/15	**0.5**	07/14/14	0.2 U	12/03/15	**1.5**	07/14/14	0.020 U	12/03/15
AGW246	ND	--	0.5 U	12/03/15	ND	--	0.020 U	12/03/15	ND	--	0.2 U	12/03/15	**0.18**	07/14/14	0.020 U	12/03/15
AGW247-1	ND	--	0.5 U	12/02/15	ND	--	0.020 U	12/02/15	ND	--	0.2 U	12/02/15	**2.5**	08/14/15	**2.1**	12/02/15
AGW247-3	ND	--	0.5 U	06/10/15	ND	--	0.020 U	06/10/15	ND	--	0.2 U	06/10/15	**1.1**	09/04/14	**1**	06/10/15
AGW247-5	ND	--	0.5 U	12/02/15	ND	--	0.020 U	12/02/15	ND	--	0.2 U	12/02/15	**4**	12/02/15	**4**	12/02/15
AGW248-1	ND	--	0.5 U	12/08/15	**0.97**	07/14/14	0.020 U	12/08/15	ND	--	0.2 U	12/08/15	**1.4**	07/14/14	0.020 U	12/08/15
AGW248-3	ND	--	0.5 U	06/09/15	**0.12**	07/14/14	**0.11**	06/09/15	**5.4**	12/01/14	**4.8**	06/09/15	**0.22**	12/01/14	**0.16**	06/09/15
AGW248-5	ND	--	0.5 U	12/08/15	**0.12**	06/09/15	**0.11**	12/08/15	**5.6**	12/01/14	**5**	12/08/15	**0.25**	08/26/15	**0.23**	12/08/15
AGW249-1	ND	--	0.5 U	12/09/15	ND	--	0.020 U	12/09/15	**0.9 J**	07/11/14	0.2 U	12/09/15	**2.8**	08/26/15	**1.9**	12/09/15
AGW249-3	ND	--	0.5 U	06/09/15	**0.12**	06/09/15	**0.12**	06/09/15	**7.1**	12/02/14	**6.3**	06/09/15	**0.21**	12/02/14	**0.16**	06/09/15
AGW249-5	ND	--	0.5 U	12/09/15	**0.12**	12/09/15	**0.12**	12/09/15	**7.9**	12/02/14	**7.1**	12/09/15	**0.21**	12/02/14	**0.14**	12/09/15
AGW250-1	ND	--	0.5 U	11/30/15	ND	--	0.020 U	11/30/15	ND	--	0.2 U	11/30/15	ND	--	0.020 U	11/30/15
AGW250-2	ND	--	0.5 U	11/30/15	ND	--	0.020 U	11/30/15	**0.3**	11/30/15	**0.3**	11/30/15	**0.04**	08/25/15	**0.033**	11/30/15
AGW250-3	ND	--	0.5 U	11/30/15	ND	--	0.020 U	11/30/15	**0.6**	03/03/15	**0.5**	11/30/15	**0.055**	11/30/15	**0.055**	11/30/15
AGW250-4	ND	--	0.5 U	12/03/14	ND	--	0.020 U	12/03/14	ND	--	0.2 U	12/03/14	**0.19**	09/04/14	**0.16**	12/03/14
AGW250-5	ND	--	0.5 U	12/03/14	ND	--	0.020 U	12/03/14	ND	--	0.2 U	12/03/14	ND	--	0.020 U	12/03/14

Table 8-1
Maximum and Most Recent Groundwater Results: TCA, PCE, TCE, and VC
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte:	1,1,1-Trichloroethane				Tetrachloroethene				Trichloroethene				Vinyl Chloride			
SL:	200 µg/L				5 µg/L				0.54 µg/L				0.029 µg/L			
Well/Boring	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
AGW250-6	ND	--	0.5 U	12/01/15	ND	--	0.020 U	12/01/15	ND	--	0.2 U	12/01/15	ND	--	0.020 U	12/01/15
AGW250-7	ND	--	0.5 U	12/03/14	ND	--	0.020 U	12/03/14	ND	--	0.2 U	12/03/14	ND	--	0.020 U	12/03/14
AGW251-1	ND	--	0.5 U	12/03/15	ND	--	0.020 U	12/03/15	ND	--	0.2 U	12/03/15	**1.8**	06/08/15	**0.23**	12/03/15
AGW251-2	ND	--	0.5 U	12/03/15	ND	--	0.020 U	12/03/15	ND	--	0.2 U	12/03/15	**6**	03/03/15	**3.9**	12/03/15
AGW251-3	ND	--	0.5 U	12/03/15	ND	--	0.020 U	12/03/15	ND	--	0.2 U	12/03/15	**6.7**	06/08/15	**5**	12/03/15
AGW251-4	ND	--	0.5 U	12/02/14	ND	--	0.020 U	12/02/14	ND	--	0.2 U	12/02/14	**0.2**	12/02/14	**0.2**	12/02/14
AGW251-5	ND	--	0.5 U	12/02/14	ND	--	0.020 U	12/02/14	ND	--	0.2 U	12/02/14	**0.054**	07/11/14	**0.05**	12/02/14
AGW251-6	ND	--	0.5 U	12/03/15	ND	--	0.020 U	12/03/15	ND	--	0.2 U	12/03/15	**0.19**	12/03/15	**0.19**	12/03/15
AGW251-7	ND	--	0.5 U	12/02/14	ND	--	0.020 U	12/02/14	ND	--	0.2 U	12/02/14	**0.052**	07/11/14	**0.038**	12/02/14
AGW252	ND	--	0.5 U	12/03/15	ND	--	0.020 U	12/03/15	ND	--	0.2 U	12/03/15	**0.03**	12/03/15	**0.03**	12/03/15
AGW253	ND	--	0.5 U	12/03/15	ND	--	0.020 U	12/03/15	ND	--	0.2 U	12/03/15	ND	--	0.020 U	12/03/15
AGW254-1	ND	--	0.5 U	12/04/15	ND	--	0.020 U	12/04/15	ND	--	0.2 U	12/04/15	ND	--	0.020 U	12/04/15
AGW254-2	ND	--	0.5 U	12/04/15	ND	--	0.020 U	12/04/15	ND	--	0.2 U	12/04/15	**0.05**	12/04/15	**0.05**	12/04/15
AGW254-3	ND	--	0.5 U	06/05/15	ND	--	0.020 U	06/05/15	ND	--	0.2 U	06/05/15	ND	--	0.020 U	06/05/15
AGW254-4	ND	--	0.5 U	06/05/15	ND	--	0.020 U	06/05/15	ND	--	0.2 U	06/05/15	ND	--	0.020 U	06/05/15
AGW254-5	ND	--	0.5 U	12/04/15	ND	--	0.020 U	12/04/15	ND	--	0.2 U	12/04/15	ND	--	0.020 U	12/04/15
AGW254-6	ND	--	0.5 U	06/05/15	ND	--	0.020 U	06/05/15	ND	--	0.2 U	06/05/15	ND	--	0.020 U	06/05/15
AGW255-1	ND	--	0.5 U	12/04/15	ND	--	0.020 U	12/04/15	**0.7**	06/09/15	**0.6**	12/04/15	**0.32**	12/04/15	**0.32**	12/04/15
AGW255-3	ND	--	0.5 U	12/04/15	ND	--	0.020 U	12/04/15	ND	--	0.2 U	12/04/15	**0.25**	12/04/15	**0.25**	12/04/15
AGW255-5	ND	--	0.5 U	12/04/15	ND	--	0.020 U	12/04/15	ND	--	0.2 U	12/04/15	**0.24**	12/04/15	**0.24**	12/04/15
AGW256	ND	--	0.5 U	12/01/15	ND	--	0.020 U	12/01/15	**1**	06/02/15	**0.7**	12/01/15	ND	--	0.020 U	12/01/15
AGW257	ND	--	0.5 U	12/01/15	**0.45**	06/02/15	**0.29**	12/01/15	**0.3**	06/02/15	0.2 U	12/01/15	ND	--	0.020 U	12/01/15
AGW258	ND	--	0.5 U	12/01/15	ND	--	0.020 U	12/01/15	ND	--	0.2 U	12/01/15	ND	--	0.020 U	12/01/15
AGW259	ND	--	0.5 U	12/04/15	ND	--	0.020 U	12/04/15	ND	--	0.2 U	12/04/15	ND	--	0.020 U	12/04/15
AGW260	ND	--	0.5 U	12/03/15	ND	--	0.020 U	12/03/15	ND	--	0.2 U	12/03/15	ND	--	0.020 U	12/03/15
AGW261	ND	--	0.5 U	12/01/15	ND	--	0.020 U	12/01/15	**2.6**	12/01/15	**2.6**	12/01/15	**0.1**	04/09/15	**0.084**	12/01/15
AGW262	ND	--	0.5 U	12/02/15	ND	--	0.020 U	12/02/15	ND	--	0.2 U	12/02/15	**0.31**	08/27/15	**0.038**	12/02/15
AGW263	ND	--	0.5 U	12/22/15	ND	--	0.020 U	12/22/15	**1.1**	06/08/15	0.2 U	12/22/15	**0.45**	08/25/15	**0.025**	12/22/15
AGW264	ND	--	0.5 U	12/03/15	ND	--	0.020 U	12/03/15	ND	--	0.2 U	12/03/15	ND	--	0.020 U	12/03/15
AGW265	ND	--	0.5 U	12/03/15	ND	--	0.020 U	12/03/15	ND	--	0.2 U	12/03/15	**0.059**	04/09/15	0.020 U	12/03/15
AGW266	ND	--	0.5 U	12/01/15	ND	--	0.020 U	12/01/15	ND	--	0.2 U	12/01/15	ND	--	0.020 U	12/01/15
AGW267	ND	--	0.5 U	12/01/15	ND	--	0.020 U	12/01/15	ND	--	0.2 U	12/01/15	ND	--	0.020 U	12/01/15
AGW268	ND	--	0.5 U	12/01/15	ND	--	0.020 U	12/01/15	ND	--	0.2 U	12/01/15	ND	--	0.020 U	12/01/15
AGW269	ND	--	0.5 U	12/07/15	ND	--	0.020 U	12/07/15	**0.2**	12/07/15	**0.2**	12/07/15	**5.1**	12/07/15	**5.1**	12/07/15
AGW270	ND	--	0.5 U	12/07/15	ND	--	0.020 U	12/07/15	**1.7**	12/07/15	**1.7**	12/07/15	**2.2**	08/13/15	**1.3**	12/07/15
AGW271	ND	--	0.5 U	12/07/15	ND	--	0.020 U	12/07/15	**1.2**	12/07/15	**1.2**	12/07/15	**5.9**	12/07/15	**5.9**	12/07/15
AGW272	ND	--	0.5 U	12/07/15	ND	--	0.020 U	12/07/15	**0.2**	12/07/15	**0.2**	12/07/15	**1.8**	12/07/15	**1.8**	12/07/15
AGW273	ND	--	0.5 U	12/07/15	ND	--	0.020 U	12/07/15	ND	--	0.2 U	12/07/15	**6**	12/07/15	**6**	12/07/15
AGW274	ND	--	0.5 U	12/07/15	ND	--	0.020 U	12/07/15	ND	--	0.2 U	12/07/15	**4**	08/13/15	**1.9**	12/07/15
AGW275	ND	--	0.5 U	12/07/15	ND	--	0.020 U	12/07/15	ND	--	0.2 U	12/07/15	**7.7**	12/07/15	**7.7**	12/07/15
AGW276-1	ND	--	0.5 U	12/08/15	ND	--	0.020 U	12/08/15	ND	--	0.2 U	12/08/15	**0.037**	10/23/15	**0.027**	12/08/15
AGW276-2	ND	--	0.5 U	12/08/15	ND	--	0.020 U	12/08/15	**0.4**	12/08/15	**0.4**	12/08/15	**1.4**	10/23/15	**1.3**	12/08/15
AGW276-3	ND	--	0.5 U	12/08/15	ND	--	0.020 U	12/08/15	ND	--	0.2 U	12/08/15	**3.2**	10/23/15	**2.5**	12/08/15
AGW276-4	ND	--	0.5 U	12/09/15	ND	--	0.020 U	12/09/15	ND	--	0.2 U	12/09/15	**0.094**	10/23/15	**0.038**	12/09/15
AGW276-5	ND	--	0.5 U	12/08/15	ND	--	0.020 U	12/08/15	ND	--	0.2 U	12/08/15	**0.96**	10/23/15	**0.8**	12/08/15
AGW276-6	ND	--	0.5 U	12/08/15	ND	--	0.020 U	12/08/15	**2.5**	12/08/15	**2.5**	12/08/15	**0.092**	10/23/15	**0.091**	12/08/15
AGW276-7	ND	--	0.5 U	12/08/15	ND	--	0.020 U	12/08/15	ND	--	0.2 U	12/08/15	**0.024**	10/23/15	0.020 U	12/08/15

Table 8-1
Maximum and Most Recent Groundwater Results: TCA, PCE, TCE, and VC
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte:	1,1,1-Trichloroethane				Tetrachloroethene				Trichloroethene				Vinyl Chloride			
SL:	200 µg/L				5 µg/L				0.54 µg/L				0.029 µg/L			
Well/Boring	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
APP-057	ND	--	0.5 U	12/09/15	ND	--	0.020 U	12/09/15	ND	--	0.2 U	12/09/15	ND	--	0.020 U	12/09/15
APP-058	ND	--	0.5 U	08/27/15	ND	--	0.020 U	08/27/15	ND	--	0.2 U	08/27/15	ND	--	0.020 U	08/27/15
APP-069	ND	--	0.5 U	08/27/15	ND	--	0.020 U	08/27/15	ND	--	0.2 U	08/27/15	ND	--	0.020 U	08/27/15
ASB0119-20	**0.7**	12/03/03	**0.7**	12/03/03	**0.3**	12/03/03	**0.3**	12/03/03	**2**	12/03/03	**2**	12/03/03	ND	--	0.020 U	--
ASB0119-30	**0.7**	12/03/03	**0.7**	12/03/03	**0.4**	12/03/03	**0.4**	12/03/03	**1.4**	12/03/03	**1.4**	12/03/03	ND	--	0.020 U	--
ASB0120-20	**0.8**	12/04/03	**0.8**	12/04/03	**0.3**	12/04/03	**0.3**	12/04/03	**1.8**	12/04/03	**1.8**	12/04/03	ND	--	0.020 U	--
ASB0120-29	**0.7**	12/04/03	**0.7**	12/04/03	**0.5**	12/04/03	**0.5**	12/04/03	**1.7**	12/04/03	**1.7**	12/04/03	ND	--	0.020 U	--
ASB0121-20	**33**	12/05/03	**33**	12/05/03	**0.3**	12/05/03	**0.3**	12/05/03	**90**	12/05/03	**90**	12/05/03	**0.092**	12/05/03	**0.092**	12/05/03
ASB0122-20	**6.6**	12/04/03	**6.6**	12/04/03	ND	--	0.2 U	--	**10**	12/04/03	**10**	12/04/03	**3**	12/04/03	**3**	12/04/03
ASB0123-20	**1.2**	12/04/03	**1.2**	12/04/03	**0.3**	12/04/03	**0.3**	12/04/03	**1.9**	12/04/03	**1.9**	12/04/03	ND	--	0.020 U	12/04/03
ASB0126-15	ND	--	0.2 U	12/16/03	ND	--	0.2 U	12/16/03	ND	--	0.2 U	12/16/03	ND	--	0.020 U	12/16/03
ASB0126-20	**170**	12/16/03	**170**	12/16/03	**0.7**	12/16/03	**0.7**	12/16/03	**1.6**	12/16/03	**1.6**	12/16/03	**0.053**	12/16/03	**0.053**	12/16/03
ASB0127-20	**4.7**	12/17/03	**4.7**	12/17/03	**0.5**	12/17/03	**0.5**	12/17/03	**38**	12/17/03	**38**	12/17/03	ND	--	0.020 U	12/17/03
ASB0128-20	ND	--	1 U	12/18/03	ND	--	1 U	12/18/03	**19**	12/18/03	**19**	12/18/03	**11**	12/18/03	**11**	12/18/03
ASB0129-20	**0.3**	02/19/04	**0.3**	02/19/04	**0.3**	02/19/04	**0.3**	02/19/04	**1.6**	02/19/04	**1.6**	02/19/04	ND	--	0.2 U	02/19/04
ASB0130-20	ND	--	1 U	02/19/04	ND	--	1 U	02/19/04	**1.6**	02/19/04	**1.6**	02/19/04	ND	--	1 U	02/19/04
ASB0131-20	**0.9**	02/19/04	**0.9**	02/19/04	**0.4**	02/19/04	**0.4**	02/19/04	**35**	02/19/04	**35**	02/19/04	ND	--	0.2 U	02/19/04
ASB0132-20	**9.1**	02/18/04	**9.1**	02/18/04	**0.3**	02/18/04	**0.3**	02/18/04	**11**	02/18/04	**11**	02/18/04	**0.1 J**	02/18/04	**0.1 J**	02/18/04
ASB0133-20	**3.7**	02/18/04	**3.7**	02/18/04	ND	--	1 U	02/18/04	**22**	02/18/04	**22**	02/18/04	ND	--	1 U	02/18/04
ASB0133-30	**4.5**	02/18/04	**4.5**	02/18/04	ND	--	0.4 U	02/18/04	**22**	02/18/04	**22**	02/18/04	**0.2 J**	02/18/04	**0.2 J**	02/18/04
ASB0133-40	**7.9**	02/18/04	**7.9**	02/18/04	**0.3**	02/18/04	**0.3**	02/18/04	**12**	02/18/04	**12**	02/18/04	ND	--	0.2 U	02/18/04
ASB0133-50	**0.6**	02/18/04	**0.6**	02/18/04	**0.3**	02/18/04	**0.3**	02/18/04	**1.8**	02/18/04	**1.8**	02/18/04	ND	--	0.2 U	02/18/04
ASB0134-20	**2.4**	02/18/04	**2.4**	02/18/04	ND	--	1 U	02/18/04	**230**	02/18/04	**230**	02/18/04	ND	--	1 U	02/18/04
ASB0134-30	**0.5**	02/18/04	**0.5**	02/18/04	**0.3**	02/18/04	**0.3**	02/18/04	**50**	02/18/04	**50**	02/18/04	ND	--	0.2 U	02/18/04
ASB0134-40	**0.2**	02/18/04	**0.2**	02/18/04	**0.4**	02/18/04	**0.4**	02/18/04	**11**	02/18/04	**11**	02/18/04	ND	--	0.2 U	02/18/04
ASB0134-50	ND	--	0.2 U	02/18/04	**0.3**	02/18/04	**0.3**	02/18/04	**1.8**	02/18/04	**1.8**	02/18/04	ND	--	0.2 U	02/18/04
ASB0135-13	ND	--	0.2 U	03/22/04	ND	--	0.2 U	03/22/04	ND	--	0.2 U	03/22/04	ND	--	0.020 U	03/22/04
ASB0136-15	ND	--	0.2 U	03/22/04	ND	--	0.2 U	03/22/04	ND	--	0.2 U	03/22/04	**0.083**	03/22/04	**0.083**	03/22/04
ASB0137-13	ND	--	0.2 U	03/22/04	ND	--	0.2 U	03/22/04	ND	--	0.2 U	03/22/04	ND	--	0.020 U	03/22/04
ASB0138-12	ND	--	0.2 U	03/22/04	ND	--	0.2 U	03/22/04	ND	--	0.2 U	03/22/04	ND	--	0.020 U	03/22/04
ASB0139-13	ND	--	0.2 U	03/22/04	ND	--	0.2 U	03/22/04	ND	--	0.2 U	03/22/04	ND	--	0.020 U	03/22/04
ASB0140-11	ND	--	0.2 U	03/22/04	ND	--	0.2 U	03/22/04	ND	--	0.2 U	03/22/04	ND	--	0.020 U	03/22/04
ASB0141-9	ND	--	0.2 UJ	05/04/04	ND	--	0.2 UJ	05/04/04	ND	--	0.2 UJ	05/04/04	ND	--	0.020 UJ	05/04/04
ASB0142-14	ND	--	0.2 UJ	05/04/04	ND	--	0.2 UJ	05/04/04	ND	--	0.2 UJ	05/04/04	**0.4 J**	05/04/04	**0.4 J**	05/04/04
ASB0143-17	ND	--	0.2 UJ	05/04/04	ND	--	0.2 UJ	05/04/04	ND	--	0.2 UJ	05/04/04	**0.75 J**	05/04/04	**0.75 J**	05/04/04
ASB0144-17	ND	--	0.2 UJ	05/04/04	ND	--	0.2 UJ	05/04/04	ND	--	0.2 UJ	05/04/04	**3.7 J**	05/04/04	**3.7 J**	05/04/04
ASB0145-17	ND	--	0.2 UJ	05/04/04	ND	--	0.2 UJ	05/04/04	ND	--	0.2 UJ	05/04/04	**5.5 J**	05/04/04	**5.5 J**	05/04/04
ASB0146-10	ND	--	0.2 UJ	05/05/04	ND	--	0.2 UJ	05/05/04	ND	--	0.2 UJ	05/04/04	ND	--	0.020 U	--
ASB0147-15	ND	--	0.2 UJ	05/05/04	ND	--	0.2 UJ	05/05/04	ND	--	0.2 UJ	05/04/04	**0.18 J**	05/05/04	**0.18 J**	05/05/04
ASB0148-17	ND	--	0.2 UJ	05/05/04	ND	--	0.2 UJ	05/05/04	ND	--	0.2 UJ	05/04/04	**4.7 J**	05/05/04	**4.7 J**	05/05/04
ASB0155-32	ND	--	0.2 U	08/23/04	ND	--	0.2 U	08/23/04	ND	--	0.2 U	08/23/04	ND	--	0.020 U	08/23/04
ASB0156-32	ND	--	0.2 U	08/24/04	ND	--	0.2 U	08/24/04	ND	--	0.2 U	08/24/04	ND	--	0.020 U	08/24/04
ASB0157-17	ND	--	0.2 U	08/24/04	ND	--	0.2 U	08/24/04	ND	--	0.2 U	08/24/04	**0.94**	08/24/04	**0.94**	08/24/04
ASB0158-32	ND	--	0.2 U	8/24/04	ND	--	0.2 U	08/25/04	ND	--	0.2 U	08/25/04	ND	--	0.020 U	08/25/04
ASB0159-19	ND	--	0.2 UJ	8/30/04	**0.6 J**	08/30/04	**0.6 J**	08/30/04	**1.8 J**	08/30/04	**1.8 J**	08/30/04	ND	--	0.020 UJ	08/30/04
ASB0160R-18	ND	--	0.2 U	9/07/04	ND	--	0.2 U	09/07/04	**0.5**	09/07/04	**0.5**	09/07/04	ND	--	0.020 U	09/07/04
ASB0161-18	ND	--	0.2 U	08/31/04	ND	--	0.2 U	08/31/04	ND	--	0.2 U	08/31/04	**0.13 J**	08/31/04	**0.13 J**	08/31/04

Table 8-1
Maximum and Most Recent Groundwater Results: TCA, PCE, TCE, and VC
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte:	1,1,1-Trichloroethane				Tetrachloroethene				Trichloroethene				Vinyl Chloride			
SL:	200 µg/L				5 µg/L				0.54 µg/L				0.029 µg/L			
Well/Boring	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
ASB0162-17	ND	--	0.2 U	08/31/04	ND	--	0.2 U	08/31/04	ND	--	0.2 U	08/31/04	**0.15 J**	08/31/04	**0.15 J**	08/31/04
ASB0164R-20	ND	--	0.2 U	09/02/04	**0.5**	09/02/04	**0.5**	09/02/04	**1.2**	09/02/04	**1.2**	09/02/04	ND	--	0.020 U	09/02/04
ASB0165R-20	ND	--	0.2 U	09/02/04	**0.9**	09/02/04	**0.9**	09/02/04	**0.5**	09/02/04	**0.5**	09/02/04	ND	--	0.020 U	09/02/04
ASB0166R-18	**0.2**	09/02/04	**0.2**	09/02/04	**0.3**	09/02/04	**0.3**	09/02/04	**2**	09/02/04	**2**	09/02/04	ND	--	0.020 U	09/02/04
ASB0167-18	ND	--	0.2 U	09/07/04	**0.4**	09/07/04	**0.4**	09/07/04	**0.8**	09/07/04	**0.8**	09/07/04	ND	--	0.020 U	09/07/04
ASB0168-18	ND	--	0.2 U	09/08/04	**0.2**	09/08/04	**0.2**	09/08/04	**0.6**	09/08/04	**0.6**	09/08/04	ND	--	0.020 U	09/08/04
ASB0169-18	ND	--	0.2 U	09/08/04	**0.2**	09/08/04	**0.2**	09/08/04	**0.6**	09/08/04	**0.6**	09/08/04	**0.025**	09/08/04	**0.025**	09/08/04
ASB0170-18	ND	--	0.2 U	09/09/04	**0.8**	09/09/04	**0.8**	09/09/04	**0.7**	09/09/04	**0.7**	09/09/04	ND	--	0.020 U	09/09/04
ASB0171-18	ND	--	0.2 U	09/09/04	**0.8**	09/09/04	**0.8**	09/09/04	**0.8**	09/09/04	**0.8**	09/09/04	ND	--	0.020 U	09/09/04
ASB0172	ND	--	0.2 U	09/09/04	ND	--	0.2 U	09/09/04	ND	--	0.2 U	09/09/04	ND	--	0.020 U	09/09/04
ASB0177-25	ND	--	0.2 U	09/08/08	ND	--	0.2 U	09/08/08	ND	--	0.2 U	09/08/08	ND	--	0.2 U	09/08/08
ASB0177-35	ND	--	0.2 U	09/08/08	ND	--	0.2 U	09/08/08	ND	--	0.2 U	09/08/08	ND	--	0.2 U	09/08/08
ASB0177-45	ND	--	0.2 U	09/08/08	ND	--	0.2 U	09/08/08	ND	--	0.2 U	09/08/08	ND	--	0.2 U	09/08/08
ASB0179-19	ND	--	0.2 U	10/01/09	**0.2**	10/01/09	**0.2**	--	**3.2**	10/01/09	**3.2**	10/01/09	ND	--	0.020 U	--
ASB0181-15	ND	--	0.5 U	04/03/13	ND	--	0.2 U	04/03/13	**3.5**	04/03/13	**3.5**	04/03/13	**2.8**	04/03/13	**2.8**	04/03/13
ASB0181-25	ND	--	0.5 U	04/03/13	ND	--	0.2 U	04/03/13	**5.6**	04/03/13	**5.6**	04/03/13	**0.3**	04/03/13	**0.3**	04/03/13
ASB0181-5	ND	--	2.5 U	04/03/13	ND	--	1 U	04/03/13	**0.13**	04/03/13	**0.13**	04/03/13	**0.22**	04/03/13	**0.22**	04/03/13
ASB0182-15	ND	--	0.5 U	04/04/13	ND	--	0.2 U	04/04/13	**12**	04/04/13	**12**	04/04/13	**0.3**	04/04/13	**0.3**	04/04/13
ASB0182-25	ND	--	0.5 U	04/04/13	ND	--	0.2 U	04/04/13	**7.6**	04/04/13	**7.6**	04/04/13	**0.16**	04/04/13	**0.16**	04/04/13
ASB0182-9	ND	--	0.5 U	04/04/13	ND	--	0.2 U	04/04/13	**2.4**	04/04/13	**2.4**	04/04/13	**2.1**	04/04/13	**2.1**	04/04/13
ASB0183-5	ND	--	2.5 U	04/04/13	ND	--	1 U	04/04/13	ND	--	0.02 U	04/04/13	ND	--	0.020 U	04/04/13
ASB0184-15	ND	--	0.5 U	04/05/13	ND	--	0.2 U	04/05/13	**6.9**	04/05/13	**6.9**	04/05/13	**0.5**	04/05/13	**0.5**	04/05/13
ASB0184-25	ND	--	0.5 U	04/05/13	ND	--	0.2 U	04/05/13	**6.6**	04/05/13	**6.6**	04/05/13	**0.3**	04/05/13	**0.3**	04/05/13
ASB0184-5	ND	--	0.5 U	04/05/13	ND	--	0.2 U	04/05/13	**0.2**	04/05/13	**0.2**	04/05/13	**1.3**	04/05/13	**1.3**	04/05/13
ASB0185-5	ND	--	0.5 U	04/05/13	ND	--	0.2 U	04/05/13	ND	--	0.02 U	04/05/13	**1.1**	04/05/13	**1.1**	04/05/13
ASB0186-15	ND	--	0.5 U	04/08/13	ND	--	0.2 U	04/08/13	**3.2**	04/08/13	**3.2**	04/08/13	**0.6**	04/08/13	**0.6**	04/08/13
ASB0186-25	ND	--	0.5 U	04/08/13	ND	--	0.2 U	04/08/13	**0.039**	04/08/13	**0.039**	04/08/13	**0.93**	04/08/13	**0.93**	04/08/13
ASB0186-5	ND	--	2.5 U	04/08/13	ND	--	1 U	04/08/13	**0.022**	04/08/13	**0.022**	04/08/13	**0.16**	04/08/13	**0.16**	04/08/13
ASB0187-5	ND	--	0.5 U	04/08/13	ND	--	0.2 U	04/08/13	**0.025**	04/08/13	**0.025**	04/08/13	ND	--	0.020 U	04/08/13
ASB0188-15	ND	--	0.5 U	04/09/13	ND	--	0.2 U	04/09/13	**0.13**	04/09/13	**0.13**	04/09/13	**0.7**	04/09/13	**0.7**	04/09/13
ASB0188-25	ND	--	0.5 U	04/09/13	ND	--	0.2 U	04/09/13	**0.3**	04/09/13	**0.3**	04/09/13	**0.9**	04/09/13	**0.9**	04/09/13
ASB0188-5	ND	--	2.5 U	04/09/13	ND	--	1 U	04/09/13	ND	--	0.02 U	04/09/13	ND	--	0.020 U	04/09/13
ASB0189-5	ND	--	2.5 U	04/09/13	ND	--	1 U	04/09/13	ND	--	0.02 U	04/09/13	ND	--	0.020 U	04/09/13
ASB0190-10	ND	--	0.5 U	04/10/13	ND	--	0.2 U	04/10/13	ND	--	0.02 U	04/10/13	**0.4**	04/10/13	**0.4**	04/10/13
ASB0190-15	ND	--	0.5 U	04/10/13	ND	--	0.2 U	04/10/13	**0.031**	04/10/13	**0.031**	04/10/13	**3.8**	04/10/13	**3.8**	04/10/13
ASB0190-25	ND	--	0.5 U	04/10/13	ND	--	0.2 U	04/10/13	**0.049**	04/10/13	**0.049**	04/10/13	**3.3**	04/10/13	**3.3**	04/10/13
ASB0191-5	ND	--	0.5 U	04/10/13	ND	--	0.2 U	04/10/13	ND	--	0.02 U	04/10/13	ND	--	0.020 U	04/10/13
ASB0192-15	ND	--	0.5 U	04/11/13	ND	--	0.2 U	04/11/13	**1.8**	04/11/13	**1.8**	04/11/13	**0.6**	04/11/13	**0.6**	04/11/13
ASB0192-25	ND	--	0.5 U	04/11/13	ND	--	0.2 U	04/11/13	**2.4**	04/11/13	**2.4**	04/11/13	**0.5**	04/11/13	**0.5**	04/11/13
ASB0192-5	ND	--	0.5 U	04/11/13	ND	--	0.2 U	04/11/13	**0.5**	04/11/13	**0.5**	04/11/13	**0.16**	04/11/13	**0.16**	04/11/13
ASB0193-5	ND	--	0.5 U	04/11/13	ND	--	0.2 U	04/11/13	ND	--	0.02 U	04/11/13	**0.11**	04/11/13	**0.11**	04/11/13
ASB0194-5	ND	--	0.5 U	04/12/13	ND	--	0.2 U	04/12/13	ND	--	0.02 U	04/12/13	ND	--	0.020 U	04/12/13
ASB0195-5	ND	--	0.5 U	04/12/13	ND	--	0.2 U	04/12/13	ND	--	0.02 U	04/12/13	ND	--	0.020 U	04/12/13
ASB0196-5	ND	--	0.5 U	04/12/13	ND	--	0.2 U	04/12/13	ND	--	0.02 U	04/12/13	ND	--	0.020 U	04/12/13
ASB0197-8	ND	--	1 U	04/15/13	ND	--	0.4 U	04/15/13	ND	--	0.02 U	04/15/13	ND	--	0.020 U	04/15/13
ASB0198-15	ND	--	0.5 U	04/15/13	ND	--	0.2 U	04/15/13	ND	--	0.02 U	04/15/13	ND	--	0.020 U	04/15/13
ASB0198-25	ND	--	0.5 U	04/15/13	ND	--	0.2 U	04/15/13	ND	--	0.02 U	04/15/13	ND	--	0.020 U	04/15/13

Table 8-1
Maximum and Most Recent Groundwater Results: TCA, PCE, TCE, and VC
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte:	1,1,1-Trichloroethane				Tetrachloroethene				Trichloroethene				Vinyl Chloride			
SL:	200 µg/L				5 µg/L				0.54 µg/L				0.029 µg/L			
Well/Boring	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
ASB0198-5	ND	--	1 U	04/15/13	ND	--	0.4 U	04/15/13	ND	--	0.02 U	04/15/13	ND	--	0.020 U	04/15/13
ASB0199-5	ND	--	2.5 U	04/16/13	ND	--	1 U	04/16/13	ND	--	0.04 U	04/16/13	ND	--	0.04 U	04/16/13
ASB0200-15	ND	--	0.5 U	04/16/13	ND	--	0.2 U	04/16/13	ND	--	0.02 U	04/16/13	**0.057**	04/16/13	**0.057**	04/16/13
ASB0200-25	ND	--	0.5 U	04/16/13	ND	--	0.2 U	04/16/13	ND	--	0.02 U	04/16/13	ND	--	0.020 U	04/16/13
ASB0200-5	ND	--	1 U	04/16/13	ND	--	0.4 U	04/16/13	ND	--	0.02 U	04/16/13	**0.024**	04/16/13	**0.024**	04/16/13
ASB0201-7	ND	--	0.5 U	04/17/13	ND	--	0.2 U	04/17/13	ND	--	0.02 U	04/17/13	ND	--	0.020 U	04/17/13
ASB0202-15	ND	--	0.5 U	04/17/13	ND	--	0.2 U	04/17/13	ND	--	0.02 U	04/17/13	**0.038**	04/17/13	**0.038**	04/17/13
ASB0202-25	ND	--	0.5 U	04/17/13	ND	--	0.2 U	04/17/13	ND	--	0.02 U	04/17/13	ND	--	0.020 U	04/17/13
ASB0202-8	ND	--	0.5 U	04/17/13	ND	--	0.2 U	04/17/13	ND	--	0.02 U	04/17/13	**0.068**	04/17/13	**0.068**	04/17/13
ASB0203-15	ND	--	0.5 U	04/18/13	ND	--	0.2 U	04/18/13	ND	--	0.02 U	04/18/13	**0.3**	04/18/13	**0.3**	04/18/13
ASB0203-25	ND	--	0.5 U	04/18/13	ND	--	0.2 U	04/18/13	ND	--	0.02 U	04/18/13	ND	--	0.020 U	04/18/13
ASB0203-7	ND	--	0.5 U	04/18/13	ND	--	0.2 U	04/18/13	ND	--	0.02 U	04/18/13	**0.058**	04/18/13	**0.058**	04/18/13
ASB0204-7	ND	--	0.5 U	04/18/13	ND	--	0.2 U	04/18/13	ND	--	0.02 U	04/18/13	ND	--	0.020 U	04/18/13
ASB0205-7	ND	--	0.5 U	04/18/13	ND	--	0.2 U	04/18/13	ND	--	0.02 U	04/18/13	ND	--	0.020 U	04/18/13
ASB0206-15	ND	--	0.5 U	04/19/13	ND	--	0.2 U	04/19/13	ND	--	0.02 U	04/19/13	ND	--	0.020 U	04/19/13
ASB0206-25	ND	--	0.5 U	04/19/13	ND	--	0.2 U	04/19/13	ND	--	0.02 U	04/19/13	ND	--	0.020 U	04/19/13
ASB0206-7	ND	--	0.5 U	04/19/13	ND	--	0.2 U	04/19/13	ND	--	0.02 U	04/19/13	ND	--	0.020 U	04/19/13
ASB0207-5	ND	--	0.5 U	04/19/13	ND	--	0.2 U	04/19/13	ND	--	0.02 U	04/19/13	ND	--	0.020 U	04/19/13
ASB0208-7	ND	--	0.5 U	04/22/13	ND	--	0.2 U	04/22/13	ND	--	0.02 U	04/22/13	ND	--	0.020 U	04/22/13
ASB0209-5	ND	--	0.5 U	04/22/13	ND	--	0.2 U	04/22/13	ND	--	0.02 U	04/22/13	ND	--	0.020 U	04/22/13
ASB0210-15	ND	--	0.5 U	04/22/13	ND	--	0.2 U	04/22/13	ND	--	0.02 U	04/22/13	**0.022**	04/22/13	**0.022**	04/22/13
ASB0210-25	ND	--	0.5 U	04/22/13	ND	--	0.2 U	04/22/13	**0.02**	04/22/13	**0.02**	04/22/13	**0.02**	04/22/13	**0.02**	04/22/13
ASB0210-8	ND	--	0.5 U	04/22/13	ND	--	0.2 U	04/22/13	ND	--	0.02 U	04/22/13	ND	--	0.020 U	04/22/13
ASB0211-15	ND	--	0.5 U	04/23/13	ND	--	0.2 U	04/23/13	ND	--	0.02 U	04/23/13	ND	--	0.020 U	04/23/13
ASB0211-25	ND	--	0.5 U	04/23/13	ND	--	0.2 U	04/23/13	ND	--	0.02 U	04/23/13	ND	--	0.020 U	04/23/13
ASB0211-5	ND	--	0.5 U	04/23/13	ND	--	0.2 U	04/23/13	ND	--	0.02 U	04/23/13	ND	--	0.020 U	04/23/13
ASB0212-5	ND	--	0.5 U	04/23/13	ND	--	0.2 U	04/23/13	ND	--	0.02 U	04/23/13	ND	--	0.020 U	04/23/13
ASB0213-8	ND	--	0.5 U	04/23/13	ND	--	0.2 U	04/23/13	ND	--	0.02 U	04/23/13	ND	--	0.020 U	04/23/13
ASB0214-5	ND	--	0.5 U	04/24/13	ND	--	0.2 U	04/24/13	ND	--	0.02 U	04/24/13	ND	--	0.020 U	04/24/13
ASB0215-15	ND	--	0.5 U	04/24/13	ND	--	0.2 U	04/24/13	ND	--	0.02 U	04/24/13	ND	--	0.020 U	04/24/13
ASB0215-25	ND	--	0.5 U	04/24/13	ND	--	0.2 U	04/24/13	**0.4**	04/24/13	**0.4**	04/24/13	**0.035**	04/24/13	**0.035**	04/24/13
ASB0215-7	ND	--	0.5 U	04/24/13	ND	--	0.2 U	04/24/13	ND	--	0.02 U	04/24/13	ND	--	0.020 U	04/24/13
ASB0216-7	ND	--	0.5 U	04/24/13	ND	--	0.2 U	04/24/13	ND	--	0.02 U	04/24/13	ND	--	0.020 U	04/24/13
ASB0217-8	ND	--	0.5 U	04/25/13	ND	--	0.2 U	04/24/13	ND	--	0.02 U	04/24/13	ND	--	0.020 U	04/24/13
ASB0218-10	ND	--	0.5 U	04/25/13	ND	--	0.2 U	04/25/13	ND	--	0.02 U	04/25/13	ND	--	0.020 U	04/25/13
ASB0218-15	ND	--	0.5 U	04/25/13	ND	--	0.2 U	04/25/13	ND	--	0.02 U	04/25/13	ND	--	0.020 U	04/25/13
ASB0218-25	ND	--	0.5 U	04/25/13	ND	--	0.2 U	04/25/13	ND	--	0.02 U	04/25/13	ND	--	0.020 U	04/25/13
ASB0219-9	ND	--	0.5 U	04/25/13	ND	--	0.2 U	04/25/13	ND	--	0.02 U	04/25/13	ND	--	0.020 U	04/25/13
ASB0220-5	ND	--	0.5 U	04/26/13	ND	--	0.2 U	04/26/13	ND	--	0.02 U	04/26/13	ND	--	0.020 U	04/26/13
ASB0221-7	ND	--	0.5 U	04/26/13	ND	--	0.2 U	04/26/13	ND	--	0.02 U	04/26/13	ND	--	0.020 U	04/26/13
ASB0222-7	ND	--	0.5 U	04/26/13	ND	--	0.2 U	04/26/13	ND	--	0.02 U	04/26/13	ND	--	0.020 U	04/26/13
ASB0223-8	ND	--	0.5 U	04/29/13	ND	--	0.2 U	04/29/13	ND	--	0.02 U	04/29/13	ND	--	0.020 U	04/29/13
ASB0224-7	ND	--	0.5 U	04/29/13	ND	--	0.2 U	04/29/13	ND	--	0.02 U	04/29/13	ND	--	0.020 U	04/29/13
ASB0225-7	ND	--	0.5 U	04/29/13	ND	--	0.2 U	04/29/13	ND	--	0.02 U	04/29/13	ND	--	0.020 U	04/29/13
ASB0226-9	ND	--	0.5 U	04/29/13	ND	--	0.2 U	04/29/13	**1.2**	04/29/13	**1.2**	04/29/13	**0.4**	04/29/13	**0.4**	04/29/13
ASB0227-9	ND	--	0.5 U	04/30/13	ND	--	0.2 U	04/30/13	ND	--	0.02 U	04/30/13	ND	--	0.020 U	04/30/13
ASB0228-8	ND	--	0.5 U	04/30/13	ND	--	0.2 U	04/30/13	ND	--	0.02 U	04/30/13	ND	--	0.020 U	04/30/13

Table 8-1
Maximum and Most Recent Groundwater Results: TCA, PCE, TCE, and VC
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte:	1,1,1-Trichloroethane				Tetrachloroethene				Trichloroethene				Vinyl Chloride			
SL:	200 µg/L				5 µg/L				0.54 µg/L				0.029 µg/L			
Well/Boring	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
ASB0229-7	ND	--	0.5 U	04/30/13	ND	--	0.2 U	04/30/13	ND	--	0.02 U	04/30/13	ND	--	0.020 U	04/30/13
ASB0230-15	ND	--	0.5 U	06/23/14	ND	--	0.2 U	06/23/14	**3.5**	06/23/14	**3.5**	06/23/14	**0.3**	06/23/14	**0.3**	06/23/14
ASB0230-25	ND	--	0.5 U	06/23/14	ND	--	0.2 U	06/23/14	**3.6**	06/23/14	**3.6**	06/23/14	**0.4**	06/23/14	**0.4**	06/23/14
ASB0230-48	ND	--	0.5 U	06/23/14	ND	--	0.2 U	06/23/14	ND	--	0.2 U	06/23/14	**0.088**	06/23/14	**0.088**	06/23/14
ASB0230-7	ND	--	0.5 U	06/23/14	ND	--	0.2 U	06/23/14	**1.7**	06/23/14	**1.7**	06/23/14	**0.048**	06/23/14	**0.048**	06/23/14
ASB0231-15	ND	--	0.5 U	06/24/14	ND	--	0.2 U	06/24/14	**0.4**	06/24/14	**0.4**	06/24/14	**1**	06/24/14	**1**	06/24/14
ASB0231-25	ND	--	0.5 U	06/24/14	ND	--	0.2 U	06/24/14	**2.4**	06/24/14	**2.4**	06/24/14	**1**	06/24/14	**1**	06/24/14
ASB0231-6	ND	--	0.5 U	06/24/14	ND	--	0.2 U	06/24/14	**1.8**	06/24/14	**1.8**	06/24/14	**0.084**	06/24/14	**0.084**	06/24/14
ASB0232-15	ND	--	0.5 U	06/24/14	ND	--	0.2 U	06/24/14	ND	--	0.2 U	06/24/14	**0.7**	06/24/14	**0.7**	06/24/14
ASB0232-25	ND	--	0.5 U	06/24/14	ND	--	0.2 U	06/24/14	**1.4**	06/24/14	**1.4**	06/24/14	**0.5**	06/24/14	**0.5**	06/24/14
ASB0232-7	ND	--	0.5 U	06/24/14	ND	--	0.2 U	06/24/14	ND	--	0.2 U	06/24/14	ND	--	0.020 U	06/24/14
ASB0233-15	ND	--	0.5 U	06/25/14	ND	--	0.2 U	06/25/14	ND	--	0.2 U	06/25/14	ND	--	0.020 U	06/25/14
ASB0233-25	ND	--	0.5 U	06/25/14	ND	--	0.2 U	06/25/14	**4.6**	06/25/14	**4.6**	06/25/14	**0.16**	06/25/14	**0.16**	06/25/14
ASB0233-50	ND	--	0.5 U	06/25/14	ND	--	0.2 U	06/25/14	**3.2**	06/25/14	**3.2**	06/25/14	**0.13**	06/25/14	**0.13**	06/25/14
ASB0233-9	ND	--	2.5 U	06/25/14	ND	--	1 U	06/25/14	ND	--	1 U	06/25/14	ND	--	0.1 U	06/25/14
ASB0234-15	ND	--	0.5 U	06/26/14	ND	--	0.2 U	06/26/14	ND	--	0.2 U	06/26/14	ND	--	0.020 U	06/26/14
ASB0234-25	ND	--	0.5 U	06/26/14	ND	--	0.2 U	06/26/14	**4.2**	06/26/14	**4.2**	06/26/14	**0.064**	06/26/14	**0.064**	06/26/14
ASB0234-50	ND	--	0.5 U	06/26/14	ND	--	0.2 U	06/26/14	**4.3**	06/26/14	**4.3**	06/26/14	**0.089**	06/26/14	**0.089**	06/26/14
ASB0234-8	ND	--	2.5 U	06/26/14	ND	--	1 U	06/26/14	ND	--	1 U	06/26/14	ND	--	0.1 U	06/26/14
ASB0235-15	ND	--	0.5 U	07/07/14	ND	--	0.2 U	07/07/14	ND	--	0.2 U	07/07/14	ND	--	0.020 U	07/07/14
ASB0235-25	ND	--	0.5 U	07/07/14	ND	--	0.2 U	07/07/14	ND	--	0.2 U	07/07/14	ND	--	0.020 U	07/07/14
ASB0235-50	ND	--	0.5 U	07/07/14	ND	--	0.2 U	07/07/14	ND	--	0.2 U	07/07/14	**0.061**	07/07/14	**0.061**	07/07/14
ASB0235-8	ND	--	0.5 U	07/07/14	ND	--	0.2 U	07/07/14	ND	--	0.2 U	07/07/14	ND	--	0.1 U	07/07/14
ASB0236-15	ND	--	0.5 U	07/08/14	ND	--	0.2 U	07/08/14	ND	--	0.2 U	07/08/14	ND	--	0.02 U	07/08/14
ASB0236-25	ND	--	0.5 U	07/08/14	ND	--	0.2 U	07/08/14	**0.5**	07/08/14	**0.5**	07/08/14	**0.045**	07/08/14	**0.045**	07/08/14
ASB0236-50	ND	--	0.5 U	07/08/14	ND	--	0.2 U	07/08/14	ND	--	0.2 U	07/08/14	**0.07**	07/08/14	**0.07**	07/08/14
ASB0236-9	ND	--	0.5 U	07/08/14	ND	--	0.2 U	07/08/14	ND	--	0.2 U	07/08/14	ND	--	0.1 U	07/08/14
ASB0237-15	ND	--	0.2 U	07/09/14	ND	--	0.2 U	07/09/14	ND	--	0.5 U	07/09/14	ND	--	0.5 U	07/09/14
ASB0237-25	ND	--	0.2 U	07/09/14	ND	--	0.2 U	07/09/14	ND	--	0.5 U	07/09/14	ND	--	0.5 U	07/09/14
ASB0237-8	ND	--	0.2 U	07/09/14	ND	--	5 U	07/09/14	ND	--	0.5 U	07/09/14	ND	--	0.001 U	07/09/14
ASB0238-15	ND	--	0.2 U	07/09/14	ND	--	5 U	07/09/14	ND	--	0.5 U	07/09/14	ND	--	0.5 U	07/09/14
ASB0238-25	ND	--	0.2 U	07/09/14	ND	--	5 U	07/09/14	**0.2**	07/09/14	**0.2**	07/09/14	**1.1**	07/09/14	**1.1**	07/09/14
ASB0238-8	ND	--	0.2 U	07/09/14	ND	--	5 U	07/09/14	ND	--	0.5 U	07/09/14	ND	--	0.5 U	07/09/14
ASB0239-15	ND	--	0.2 U	07/10/14	ND	--	5 U	07/10/14	ND	--	0.5 U	07/10/14	ND	--	0.5 U	07/10/14
ASB0239-25	ND	--	0.2 U	07/10/14	ND	--	5 U	07/10/14	ND	--	0.5 U	07/10/14	**0.22**	07/10/14	**0.22**	07/10/14
ASB0239-9	ND	--	1 U	07/10/14	ND	--	25 U	07/10/14	ND	--	2.5 U	07/10/14	ND	--	0.5 U	07/10/14
ASB0240-10	ND	--	0.2 U	07/10/14	ND	--	5 U	07/10/14	ND	--	0.5 U	07/10/14	ND	--	0.5 U	07/10/14
ASB0240-15	ND	--	0.2 U	07/10/14	ND	--	5 U	07/10/14	ND	--	0.5 U	07/10/14	ND	--	0.5 U	07/10/14
ASB0240-25	ND	--	0.2 U	07/10/14	ND	--	5 U	07/10/14	**3.1**	07/10/14	**3.1**	07/10/14	**0.077**	07/10/14	**0.077**	07/10/14
ASB0241-15	ND	--	0.2 U	07/11/14	ND	--	5 U	07/11/14	ND	--	0.5 U	07/11/14	ND	--	0.5 U	07/11/14
ASB0241-25	ND	--	0.2 U	07/11/14	ND	--	5 U	07/11/14	ND	--	0.5 U	07/11/14	ND	--	0.5 U	07/11/14
ASB0241-48	ND	--	0.2 U	07/11/14	ND	--	5 U	07/11/14	ND	--	0.5 U	07/11/14	ND	--	0.5 U	07/11/14
ASB0241-9	ND	--	0.2 U	07/11/14	ND	--	5 U	07/11/14	ND	--	0.5 U	07/11/14	ND	--	0.5 U	07/11/14
ASB0242-12	ND	--	0.5 U	07/14/14	ND	--	0.2 U	07/14/14	ND	--	0.2 U	07/14/14	ND	--	0.02 U	07/14/14
ASB0242-25	ND	--	0.5 U	07/14/14	**0.2**	07/14/14	**0.2**	07/14/14	**1.3**	07/14/14	**1.3**	07/14/14	**0.02**	07/14/14	**0.02**	07/14/14
ASB0242-48	ND	--	0.5 U	07/14/14	ND	--	0.2 U	07/14/14	**0.8**	07/14/14	**0.8**	07/14/14	ND	--	0.02 U	07/14/14
ASB0243-14	ND	--	0.5 U	07/15/14	ND	--	0.2 U	07/15/14	ND	--	0.2 U	07/15/14	ND	--	0.02 U	07/15/14

Table 8-1
Maximum and Most Recent Groundwater Results: TCA, PCE, TCE, and VC
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte:	1,1,1-Trichloroethane				Tetrachloroethene				Trichloroethene				Vinyl Chloride			
SL:	200 µg/L				5 µg/L				0.54 µg/L				0.029 µg/L			
Well/Boring	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
ASB0243-25	ND	--	0.5 U	07/15/14	ND	--	0.2 U	07/15/14	**0.7**	07/15/14	**0.7**	07/15/14	ND	--	0.020 U	07/15/14
ASB0243-50	ND	--	0.5 U	07/15/14	ND	--	0.2 U	07/15/14	**5.8**	07/15/14	**5.8**	07/15/14	**0.044**	07/15/14	**0.044**	07/15/14
ASB0244-9	ND	--	0.5 U	03/16/15	ND	--	0.2 U	03/16/15	ND	--	0.2 U	03/16/15	ND	--	0.020 U	03/16/15
ASB0245-10	ND	--	0.5 U	03/16/15	ND	--	0.2 U	03/16/15	ND	--	0.2 U	03/16/15	ND	--	0.020 U	03/16/15
ASB0246-10	ND	--	0.5 U	03/16/15	ND	--	0.2 U	03/16/15	ND	--	0.2 U	03/16/15	ND	--	0.020 U	03/16/15
ASB0247-7	ND	--	0.5 U	03/17/15	ND	--	0.2 U	03/17/15	ND	--	0.2 U	03/17/15	ND	--	0.020 U	03/17/15
ASB0248-7	ND	--	0.5 U	03/17/15	ND	--	0.2 U	03/17/15	ND	--	0.2 U	03/17/15	ND	--	0.020 U	03/17/15
ASB0249-7	ND	--	0.5 U	03/17/15	ND	--	0.2 U	03/17/15	ND	--	0.2 U	03/17/15	ND	--	0.020 U	03/17/15
ASB0250-7	ND	--	0.5 U	03/17/15	ND	--	0.2 U	03/17/15	ND	--	0.2 U	03/17/15	**0.22**	03/17/15	**0.22**	03/17/15
ASB0251-7	ND	--	0.5 U	03/18/15	ND	--	0.2 U	03/18/15	ND	--	0.2 U	03/18/15	**0.4**	03/18/15	**0.4**	03/18/15
ASB0251R-8	ND	--	0.5 U	04/26/15	ND	--	0.2 U	04/26/15	ND	--	0.2 U	04/26/15	**0.72**	04/26/15	**0.72**	04/26/15
ASB0252-8	ND	--	0.5 U	03/18/15	ND	--	0.2 U	03/18/15	ND	--	0.2 U	03/18/15	ND	--	0.020 U	03/18/15
ASB0253-8	ND	--	0.5 U	03/18/15	ND	--	0.2 U	03/18/15	ND	--	0.2 U	03/18/15	ND	--	0.020 U	03/18/15
ASB0254-8	ND	--	0.5 U	03/18/15	ND	--	0.2 U	03/18/15	ND	--	0.2 U	03/18/15	ND	--	0.020 U	03/18/15
ASB0255-10	ND	--	0.5 U	04/26/15	ND	--	0.2 U	04/26/15	ND	--	0.2 U	04/26/15	ND	--	0.020 U	04/26/15
ASB0256-12	ND	--	0.5 U	04/27/15	ND	--	0.2 U	04/27/15	ND	--	0.2 U	04/27/15	ND	--	0.020 U	04/27/15
ASB0257-15	ND	--	0.5 U	04/27/15	ND	--	0.2 U	04/27/15	ND	--	0.2 U	04/27/15	ND	--	0.020 U	04/27/15
ASB0258-10	ND	--	0.5 U	04/28/15	ND	--	0.2 U	04/28/15	ND	--	0.2 U	04/28/15	**2.8**	04/28/15	**2.8**	04/28/15
ASB0259-10	ND	--	0.5 U	04/28/15	ND	--	0.2 U	04/28/15	ND	--	0.2 U	04/28/15	**0.13**	04/28/15	**0.13**	04/28/15
ASB0260-8	ND	--	0.5 U	04/28/15	ND	--	0.2 U	04/28/15	ND	--	0.2 U	04/28/15	ND	--	0.020 U	04/28/15
ASB0261-10	ND	--	0.5 U	04/28/15	ND	--	0.2 U	04/28/15	ND	--	0.2 U	04/28/15	**0.024**	04/28/15	**0.024**	04/28/15
ASB0262-10	ND	--	0.5 U	04/29/15	ND	--	0.2 U	04/29/15	ND	--	0.2 U	04/29/15	**0.43**	04/29/15	**0.43**	04/29/15
ASB0263-10	ND	--	0.5 U	04/29/15	ND	--	0.2 U	04/29/15	ND	--	0.2 U	04/29/15	ND	--	0.020 U	04/29/15
IW1	ND	--	0.2 UJ	06/17/04	**0.4 J**	06/17/04	**0.4 J**	06/17/04	**9.4 J**	06/17/04	**9.4 J**	06/17/04	ND	--	0.2 UJ	06/17/04
IW5	ND	--	1 UJ	06/18/04	ND	--	1 UJ	06/18/04	**150 J**	06/18/04	**150 J**	06/18/04	ND	--	1 UJ	06/18/04
IW10	**2.1 J**	06/18/04	**2.1 J**	06/18/04	**0.2 J**	06/18/04	**0.2 J**	06/18/04	**4 J**	06/18/04	**4 J**	06/18/04	ND	--	0.2 UJ	06/18/04
IW33	ND	--	0.5 U	08/13/15	ND	--	0.020 U	08/13/15	ND	--	0.2 U	08/13/15	**3**	08/13/15	**3**	08/13/15
IW34	ND	--	0.5 U	12/07/15	ND	--	0.10 U	12/07/15	**1.6 J**	12/07/15	**1.6 J**	12/07/15	**4.9**	08/17/15	**1.1 J**	12/07/15
IW35	ND	--	0.5 U	08/17/15	ND	--	0.020 U	08/17/15	ND	--	0.2 U	08/17/15	**3.7**	08/17/15	**3.7**	08/17/15
IW36	ND	--	2.5 U	12/07/15	ND	--	0.020 U	12/07/15	**0.2**	08/17/15	1.0 U	12/07/15	**6**	08/17/15	**3.8**	12/07/15
IW37	ND	--	0.5 U	12/07/15	**0.16**	12/07/15	**0.16**	12/07/15	**1.3 J**	12/07/15	**1.3 J**	12/07/15	**4.9**	08/13/15	**1.5 J**	12/07/15

-- = Not analyzed.
J=The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
µg/L = micrograms per liter
mg/L = milligrams per liter
ND = The analyte was analyzed for, but was not detected.
SL = screening level
U=The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
UJ= The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
Notes:
1. **Bold** text indicates detected analyte.
2. Green shading indicates exceedance of screening level.
3. Wells and borings not included did not have groundwater samples analyzed for these constituents.
4. Replacement wells (signified by R) maximum and most recent results included comparison with results from the original well.
5. All results are in µg/L.

Table 8-2
Groundwater Total Chloroethenes Data
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Date	TCE (µg/L)	cDCE (µg/L)	tDCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	VOCs (nmol/L)					
							TCE	cDCE	tDCE	1,1-DCE	VC	total cVOC
AGW001R	12/1/2015	2.0	<0.2	<0.2	<0.2	<0.2	15	0	0	0	0	15
AGW002R	12/3/2015	<0.2	0.3	<0.2	<0.2	0.066	0	3	0	0	1	4
AGW006R	12/1/2015	0.5	1.2	<0.2	<0.2	0.1	4	12	0	0	2	18
AGW009	6/2/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW010	12/3/2015	<2.0	<2.0	<2.0	<2.0	<0.020	0	0	0	0	0	0
AGW024	12/8/2015	<0.2	0.3	<0.2	<0.2	1.7	0	3	0	0	27	30
AGW025	12/3/2015	<0.2	3.6	0.4	<0.2	1.1	0	37	4	0	18	59
AGW026	12/3/2015	0.9	0.9	<0.2	<0.2	0.15	7	9	0	0	2	19
AGW027	12/3/2015	<0.2	1.8	<0.2	<0.2	0.82	0	19	0	0	13	32
AGW029	6/4/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW030	6/4/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW031R	11/30/2015	1.8	3.0	<0.2	<0.2	0.037	14	31	0	0	1	45
AGW032	12/3/2015	<0.2	<0.2	<0.2	<0.2	0.041	0	0	0	0	1	1
AGW033	12/8/2015	2.4	1.4	<0.2	<0.2	0.21	18	14	0	0	3	36
AGW034	6/4/2015	0.2	<0.2	<0.2	<0.2	<0.020	2	0	0	0	0	2
AGW035	6/4/2015	1.5	<0.2	<0.2	<0.2	<0.020	11	0	0	0	0	11
AGW037	12/3/2015	2.3	1.2	<0.2	<0.2	0.2	18	12	0	0	3	33
AGW039	6/9/2015	0.5	1.1	<0.2	<0.2	0.03	4	11	0	0	0	16
AGW040	6/9/2015	1	0.6	<0.2	<0.2	<0.020	8	6	0	0	0	14
AGW041	6/3/2015	0.4	<0.2	<0.2	<0.2	<0.020	3	0	0	0	0	3
AGW044	6/9/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW053R	12/3/2015	1.7	0.6	<0.2	<0.2	0.031	13	6	0	0	0	20
AGW055R	12/1/2015	0.5	0.7	<0.2	<0.2	0.051	4	7	0	0	1	12
AGW057R	12/1/2015	1.6	<0.2	<0.2	<0.2	<0.2	12	0	0	0	0	12
AGW058R	6/1/2015	0.3	<0.2	<0.2	<0.2	<0.020	2	0	0	0	0	2
AGW059R	6/1/2015	0.2	<0.2	<0.2	<0.2	<0.020	2	0	0	0	0	2
AGW060R	12/4/2015	0.4	3.2	<0.2	<0.2	0.068	3	33	0	0	1	37
AGW064	11/30/2015	0.4	0.2	<0.2	<0.2	<0.2	3	2	0	0	0	5
AGW065	6/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW066	12/4/2015	4.3	1.1	<0.2	<0.2	<0.2	33	11	0	0	0	44
AGW067	12/4/2015	3.7	1.8	<0.2	<0.2	<0.2	28	19	0	0	0	47
AGW068	6/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW069	11/30/2015	<0.2	<0.2	<0.2	<0.2	<0.2	0	0	0	0	0	0
AGW072	12/4/2015	1.3	<0.2	<0.2	<0.2	<0.2	10	0	0	0	0	10
AGW073	12/4/2015	0.2	<0.2	<0.2	<0.2	<0.2	2	0	0	0	0	2
AGW074	12/7/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW078	6/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW079	12/7/2015	<0.2	0.4	<0.2	<0.2	0.9	0	4	0	0	14	19
AGW081	6/4/2015	<0.2	0.3	<0.2	<0.2	0.026	0	3	0	0	0	4

Table 8-2
Groundwater Total Chloroethenes Data
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Date	TCE (µg/L)	cDCE (µg/L)	tDCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	VOCs (nmol/L)					
							TCE	cDCE	tDCE	1,1-DCE	VC	total cVOC
AGW085	12/8/2015	<0.2	<0.2	<0.2	<0.2	<0.2	0	0	0	0	0	0
AGW087	12/7/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW088	12/7/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW089	12/7/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW090	12/7/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW091	12/7/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW095R	11/30/2015	1.2	0.2	<0.2	<0.2	<0.020	9	2	0	0	0	11
AGW098R	11/30/2015	0.5	<0.2	<0.2	<0.2	<0.2	4	0	0	0	0	4
AGW104	6/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW105	12/7/2015	0.9	0.6	<0.2	<0.2	0.8	7	6	0	0	13	26
AGW106R	12/3/2015	<0.2	<0.2	<0.2	<0.2	<0.2	0	0	0	0	0	0
AGW110R	12/3/2015	<0.2	<0.2	<0.2	<0.2	0.11	0	0	0	0	2	2
AGW112R	12/3/2015	2.0	0.8	<0.2	<0.2	0.098	15	8	0	0	2	25
AGW115	12/9/2015	<0.2	3.2	<0.2	<0.2	0.5	0	33	0	0	8	41
AGW116	12/9/2015	0.2	<0.2	<0.2	<0.2	<0.2	2	0	0	0	0	2
AGW117	12/9/2015	0.3	<0.2	<0.2	<0.2	<0.2	2	0	0	0	0	2
AGW118	12/9/2015	0.3	<0.2	<0.2	<0.2	<0.2	2	0	0	0	0	2
AGW119	12/7/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW120	12/7/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW125	12/4/2015	9.1	1.7	<0.2	<0.2	0.034	69	18	0	0	1	87
AGW126	12/4/2015	8	4.7	<0.2	0.3	0.11	61	48	0	3	2	114
AGW127	6/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW128	12/9/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW129	12/9/2015	0.6	0.4	<0.2	<0.2	<0.2	5	4	0	0	0	9
AGW130	12/9/2015	0.4	<0.2	<0.2	<0.2	<0.2	3	0	0	0	0	3
AGW131	12/3/2015	<0.2	2.1	<0.2	<0.2	5.0	0	22	0	0	80	102
AGW133	6/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW134	12/8/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW135	12/8/2015	1.6	0.6	<0.2	<0.2	0.067	12	6	0	0	1	19
AGW136	11/30/2015	3.3	1.5	<0.2	<0.2	<0.020	25	15	0	0	0	41
AGW137	11/30/2015	5.8	2.3	<0.2	0.2	0.033	44	24	0	2	1	70
AGW138	11/30/2015	0.7	<0.2	<0.2	<0.2	<0.2	5	0	0	0	0	5
AGW139	11/30/2015	3.8	0.2	<0.2	<0.2	<0.2	29	2	0	0	0	31
AGW140	12/3/2015	4.3	2.9	<0.2	0.2	0.21	33	30	0	2	3	68
AGW141	11/30/2015	2.5	0.3	<0.2	<0.2	<0.2	19	3	0	0	0	22
AGW142	11/30/2015	0.3	<0.2	<0.2	<0.2	<0.2	2	0	0	0	0	2
AGW143	12/8/2015	<0.2	<0.2	<0.2	<0.2	<0.2	0	0	0	0	0	0
AGW144	12/4/2015	0.9	1.9	0.4	<0.2	0.3	7	20	4	0	5	35
AGW145	12/4/2015	12	7.7	1.1	<0.2	0.8	91	79	11	0	13	195

Table 8-2
Groundwater Total Chloroethenes Data
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Date	TCE (µg/L)	cDCE (µg/L)	tDCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	VOCs (nmol/L)					
							TCE	cDCE	tDCE	1,1-DCE	VC	total cVOC
AGW146	12/4/2015	3.9	1.8	0.2	<0.2	0.13	30	19	2	0	2	52
AGW147	12/2/2015	<0.2	1	<0.2	<0.2	<0.020	0	10	0	0	0	10
AGW148	12/2/2015	4	1.6	<0.2	<0.2	0.044	30	17	0	0	1	48
AGW149	12/2/2015	4.2	0.5	<0.2	<0.2	<0.2	32	5	0	0	0	37
AGW150	11/30/2015	1.6	<0.2	<0.2	<0.2	<0.2	12	0	0	0	0	12
AGW151	11/30/2015	0.5	<0.2	<0.2	<0.2	<0.2	4	0	0	0	0	4
AGW152	12/3/2015	<0.2	0.6	<0.2	<0.2	3.0	0	6	0	0	48	54
AGW153	6/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW154	12/3/2015	0.5	0.5	<0.2	<0.2	0.03	4	5	0	0	0	9
AGW155	12/3/2015	<0.2	2.8	0.4	<0.2	3.3	0	29	4	0	53	86
AGW156	12/3/2015	<0.2	9.2	0.4	<0.2	1.6	0	95	4	0	26	125
AGW157	12/7/2015	2.7	2	<0.2	<0.2	0.6	21	21	0	0	10	51
AGW158	12/9/2015	2.8	0.6	<0.2	<0.2	0.057	21	6	0	0	1	28
AGW159	12/9/2015	4.4	1	<0.2	<0.2	0.14	33	10	0	0	2	46
AGW160	12/4/2015	3.5	0.5	<0.2	<0.2	<0.2	27	5	0	0	0	32
AGW161	12/2/2015	1.9	<0.2	<0.2	<0.2	<0.2	14	0	0	0	0	14
AGW162	12/7/2015	0.7	<0.2	<0.2	<0.2	<0.2	5	0	0	0	0	5
AGW163	12/7/2015	4.4	1	<0.2	<0.2	0.025	33	10	0	0	0	44
AGW164	12/8/2015	1.7	0.4	<0.2	<0.2	0.1	13	4	0	0	2	19
AGW165	12/3/2015	2.3	1.2	<0.2	<0.2	0.16	18	12	0	0	3	32
AGW166	12/9/2015	<0.2	0.6	<0.2	<0.2	0.22	0	6	0	0	4	10
AGW167	12/9/2015	4.8	2.4	0.3	<0.2	0.18	37	25	3	0	3	67
AGW168	12/9/2015	4.6	1.7	<0.2	<0.2	0.064	35	18	0	0	1	54
AGW169	12/9/2015	5.8	1.6	<0.2	<0.2	0.061	44	17	0	0	1	62
AGW170	12/9/2015	2.8	0.5	<0.2	<0.2	0.031	21	5	0	0	0	27
AGW171	12/9/2015	2.2	<0.2	<0.2	<0.2	<0.2	17	0	0	0	0	17
AGW172	12/8/2015	5.6	0.3	<0.2	<0.2	<0.2	43	3	0	0	0	46
AGW173	12/8/2015	2.2	0.2	<0.2	<0.2	<0.020	17	2	0	0	0	19
AGW174	12/2/2015	2	<0.2	<0.2	<0.2	<0.2	15	0	0	0	0	15
AGW175	12/2/2015	2.4	0.4	<0.2	<0.2	<0.2	18	4	0	0	0	22
AGW176	12/9/2015	3.8	0.4	<0.2	<0.2	<0.020	29	4	0	0	0	33
AGW177	12/2/2015	4.3	0.7	<0.2	<0.2	<0.020	33	7	0	0	0	40
AGW178	12/2/2015	4.4	0.5	<0.2	<0.2	0.021	33	5	0	0	0	39
AGW179	12/2/2015	0.3	7	<0.2	0.2	0.078	2	72	0	2	1	78
AGW180	12/2/2015	3.9	0.7	<0.2	<0.2	<0.2	30	7	0	0	0	37
AGW181	12/1/2015	4.8	1.2	<0.2	<0.2	0.048	37	12	0	0	1	50
AGW182	12/4/2015	1.7	2.5	0.3	<0.2	0.2	13	26	3	0	3	45
AGW183	12/4/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW184	12/1/2015	0.5	<0.2	<0.2	<0.2	<0.2	4	0	0	0	0	4

Table 8-2
Groundwater Total Chloroethenes Data
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Date	TCE (µg/L)	cDCE (µg/L)	tDCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	VOCs (nmol/L)					
							TCE	cDCE	tDCE	1,1-DCE	VC	total cVOC
AGW185	12/2/2015	3.4	<0.2	<0.2	<0.2	<0.2	26	0	0	0	0	26
AGW186	12/1/2015	0.6	<0.2	<0.2	<0.2	<0.2	5	0	0	0	0	5
AGW187	12/2/2015	2	0.3	<0.2	<0.2	<0.2	15	3	0	0	0	18
AGW188	12/1/2015	4.6	0.5	<0.2	<0.2	0.025	35	5	0	0	0	41
AGW189	12/1/2015	0.7	<0.2	<0.2	<0.2	<0.2	5	0	0	0	0	5
AGW190	12/8/2015	1.5	<0.2	<0.2	<0.2	<0.2	11	0	0	0	0	11
AGW191	12/8/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW192	12/8/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW193	12/9/2015	3.0	1.8	<0.2	<0.2	0.3	23	19	0	0	5	46
AGW194	12/9/2015	2.4	0.7	<0.2	<0.2	0.03	18	7	0	0	0	26
AGW195	12/7/2015	8.4	0.8	<0.2	<0.2	<0.020	64	8	0	0	0	72
AGW196	12/7/2015	<0.2	4.2	<0.2	0.3	2	0	43	0	3	32	78
AGW197	12/9/2015	9.8	0.8	<0.2	<0.2	<0.2	75	8	0	0	0	83
AGW198	12/9/2015	7.7	0.8	<0.2	<0.2	<0.020	59	8	0	0	0	67
AGW199	12/8/2015	8.5	1.3	<0.2	0.2	0.029	65	13	0	2	0	81
AGW200-2	12/8/2015	0.3	1.5	0.2	<0.2	2.1	2	15	2	0	34	53
AGW200-5	12/8/2015	1.5	5.6	0.6	<0.2	1.7	11	58	6	0	27	103
AGW200-6	12/8/2015	0.8	4.5	0.6	<0.2	1.1	6	46	6	0	18	76
AGW201-2	12/8/2015	0.5	3.6	0.3	<0.2	2.0	4	37	3	0	32	76
AGW201-5	12/8/2015	5.3	4.5	0.4	<0.2	1	40	46	4	0	16	107
AGW201-6	12/8/2015	8.2	4.6	0.5	<0.2	0.5	62	47	5	0	8	123
AGW202-2	12/8/2015	1.6	3.0	<0.2	<0.2	1.2	12	31	0	0	19	62
AGW202-4	12/8/2015	3.6	1.3	<0.2	<0.2	0.4	27	13	0	0	6	47
AGW202-6	12/8/2015	1	0.3	<0.2	<0.2	<0.2	8	3	0	0	0	11
AGW203-2	12/8/2015	1.3	0.2	<0.2	<0.2	<0.2	10	2	0	0	0	12
AGW203-4	12/8/2015	3.3	<0.2	<0.2	<0.2	<0.2	25	0	0	0	0	25
AGW203-6	12/8/2015	0.2	<0.2	<0.2	<0.2	<0.2	2	0	0	0	0	2
AGW204	6/2/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW205	6/2/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW206	12/7/2015	0.7	0.3	<0.2	<0.2	<0.2	5	3	0	0	0	8
AGW207-2	11/30/2015	7.6	4.1	<0.2	<0.2	0.2	58	42	0	0	3	103
AGW207-4	11/30/2015	6.7	1.9	<0.2	<0.2	0.23	51	20	0	0	4	74
AGW207-7	11/30/2015	5.9	0.7	<0.2	<0.2	0.022	45	7	0	0	0	52
AGW208-2	12/3/2015	3.7	5.2	<0.2	0.2	0.5	28	54	0	2	8	92
AGW208-4	12/3/2015	1.4	6.1	<0.2	<0.2	0.23	11	63	0	0	4	77
AGW208-6	12/3/2015	5.5	0.6	<0.2	<0.2	<0.2	42	6	0	0	0	48
AGW209-2	12/4/2015	<0.2	<0.2	<0.2	<0.2	2.1	0	0	0	0	34	34
AGW209-5	12/4/2015	2.1	1.4	<0.2	0.2	1.4	16	14	0	2	22	55
AGW209-6	12/4/2015	5.7	0.7	<0.2	<0.2	0.021	43	7	0	0	0	51

Table 8-2
Groundwater Total Chloroethenes Data
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Date	TCE (µg/L)	cDCE (µg/L)	tDCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	VOCs (nmol/L)					
							TCE	cDCE	tDCE	1,1-DCE	VC	total cVOC
AGW210-2	6/2/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW210-5	12/7/2015	1.4	1.8	<0.2	<0.2	0.062	11	19	0	0	1	30
AGW210-6	12/7/2015	4.9	0.4	<0.2	<0.2	<0.2	37	4	0	0	0	41
AGW211-2	6/2/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW211-5	12/4/2015	3.7	0.9	<0.2	<0.2	<0.020	28	9	0	0	0	37
AGW211-6	12/4/2015	0.9	1.2	<0.2	<0.2	<0.2	7	12	0	0	0	19
AGW212-2	6/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW212-5	12/7/2015	2.1	<0.2	<0.2	<0.2	<0.2	16	0	0	0	0	16
AGW212-7	12/7/2015	4.7	<0.2	<0.2	<0.2	<0.2	36	0	0	0	0	36
AGW213	12/1/2015	<0.2	<0.2	<0.2	<0.2	0.024	0	0	0	0	0	0
AGW214	12/1/2015	2.7	0.3	<0.2	<0.2	0.026	21	3	0	0	0	24
AGW215	12/1/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW216	12/4/2015	1	<0.2	<0.2	<0.2	<0.2	8	0	0	0	0	8
AGW217	12/1/2015	1.8	0.2	<0.2	<0.2	0.022	14	2	0	0	0	16
AGW218	12/1/2015	3.6	0.4	<0.2	<0.2	0.021	27	4	0	0	0	32
AGW219	12/1/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW220	12/1/2015	0.3	<0.2	<0.2	<0.2	<0.020	2	0	0	0	0	2
AGW221	12/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW222	12/9/2015	0.4	<0.2	<0.2	<0.2	<0.2	3	0	0	0	0	3
AGW223	6/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW224	6/5/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW225	12/8/2015	2.1	4.8	0.5	<0.2	0.5	16	50	5	0	8	79
AGW226	12/2/2015	0.5	1.8	<0.2	<0.2	0.4	4	19	0	0	6	29
AGW227	12/9/2015	2.5	2.5	0.3	<0.2	0.3	19	26	3	0	5	53
AGW228	12/9/2015	2.8	2.9	0.3	<0.2	0.3	21	30	3	0	5	59
AGW229	12/9/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW230	12/1/2015	1.2	<0.2	<0.2	<0.2	<0.2	9	0	0	0	0	9
AGW231	12/8/2015	1.2	1.4	<0.2	<0.2	2.3	9	14	0	0	37	60
AGW232	12/7/2015	<0.2	4.1	<0.2	0.3	2.0	0	42	0	3	32	77
AGW233	12/7/2015	<0.2	<0.2	<0.2	<0.2	<0.2	0	0	0	0	0	0
AGW234	12/7/2015	7.7	1.7	<0.2	0.4	0.053	59	18	0	4	1	81
AGW235-2	12/8/2015	<0.2	2.6	0.3	0.2	2.3	0	27	3	2	37	69
AGW235-4	12/8/2015	4	6.7	<0.2	0.3	0.11	30	69	0	3	2	104
AGW235-7	12/8/2015	<0.2	<0.2	<0.2	<0.2	<0.2	0	0	0	0	0	0
AGW236	12/4/2015	6.0	3.0	<0.2	<0.2	0.065	46	31	0	0	1	78
AGW237	12/3/2015	2.4	1	<0.2	0.9	0.043	18	10	0	9	1	39
AGW238	12/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW239	12/3/2015	<0.2	12	0.6	0.3	1.4	0	124	6	3	22	155
AGW240-5	12/7/2015	<0.2	1.8	0.3	<0.2	4.3	0	19	3	0	69	90

Table 8-2
Groundwater Total Chloroethenes Data
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Date	TCE (µg/L)	cDCE (µg/L)	tDCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	VOCs (nmol/L)					
							TCE	cDCE	tDCE	1,1-DCE	VC	total cVOC
AGW241-5	11/30/2015	<0.2	0.4	<0.2	<0.2	<0.020	0	4	0	0	0	4
AGW242-2	11/30/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW242-5	11/30/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW243-3	11/30/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW243-5	11/30/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW244	12/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW245	12/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW246	12/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW247-5	12/2/2015	<0.2	2.9	0.7	<0.2	4.0	0	30	7	0	64	101
AGW248-5	12/8/2015	5.0	2.0	<0.2	<0.2	0.23	38	21	0	0	4	62
AGW249-5	12/9/2015	7.1	2.2	<0.2	<0.2	0.14	54	23	0	0	2	79
AGW250-2	11/30/2015	0.3	0.3	<0.2	<0.2	0.033	2	3	0	0	1	6
AGW250-3	11/30/2015	0.5	0.8	<0.2	<0.2	0.055	4	8	0	0	1	13
AGW250-6	12/1/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW251-2	12/3/2015	<0.2	<0.2	<0.2	<0.2	3.9	0	0	0	0	62	62
AGW251-3	12/3/2015	<0.2	3	<0.2	<0.2	5	0	31	0	0	80	111
AGW251-6	12/3/2015	<0.2	0.3	<0.2	<0.2	0.19	0	3	0	0	3	6
AGW252	12/3/2015	<0.2	<0.2	<0.2	<0.2	0.03	0	0	0	0	0	0
AGW253	12/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW254-2	12/4/2015	<0.2	<0.2	<0.2	<0.2	0.050	0	0	0	0	1	1
AGW254-5	12/4/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW255-3	12/4/2015	<0.2	1.3	<0.2	<0.2	0.25	0	13	0	0	4	17
AGW255-5	12/4/2015	<0.2	0.7	<0.2	<0.2	0.24	0	7	0	0	4	11
AGW256	12/1/2015	0.7	<0.2	<0.2	<0.2	<0.020	5	0	0	0	0	5
AGW257	12/1/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW258	12/1/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW259	12/4/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW260	12/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW261	12/1/2015	2.6	1.3	0.2	<0.2	0.084	20	13	2	0	1	37
AGW264	12/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW265	12/3/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW266	12/1/2015	<0.2	0.4	<0.2	<0.2	<0.020	0	4	0	0	0	4
AGW267	12/1/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW268	12/1/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
AGW269	12/7/2015	0.2	7.4	1.2	<0.2	5.1	2	76	12	0	82	172
AGW270	12/7/2015	1.7	10	1.7	<0.2	1.3	13	103	18	0	21	154
AGW271	12/7/2015	1.2	15	1.8	<0.2	5.9	9	155	19	0	94	277
AGW272	12/7/2015	0.2	6.4	0.7	<0.2	1.8	2	66	7	0	29	104
AGW273	12/7/2015	<0.2	3.4	0.6	<0.2	6.0	0	35	6	0	96	137

Table 8-2
Groundwater Total Chloroethenes Data
Boeing Auburn Remedial Investigation
Auburn, Washington

Well	Date	TCE (µg/L)	cDCE (µg/L)	tDCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	VOCs (nmol/L)					
							TCE	cDCE	tDCE	1,1-DCE	VC	total cVOC
AGW274	12/7/2015	<0.2	<0.2	<0.2	<0.2	1.9	0	0	0	0	30	30
AGW275	12/7/2015	<0.2	2.5	0.3	<0.2	7.7	0	26	3	0	123	152
AGW276-2	12/8/2015	0.4	1.8	0.2	<0.2	1.3	3	19	2	0	21	44
AGW276-5	12/8/2015	<0.2	6.6	0.4	<0.2	0.8	0	68	4	0	13	85
AGW276-6	12/8/2015	2.5	1.4	<0.2	<0.2	0.091	19	14	0	0	1	35
APP-057	12/9/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
APP-058	8/27/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
APP-069	8/27/2015	<0.2	<0.2	<0.2	<0.2	<0.020	0	0	0	0	0	0
IW34	12/7/2015	1.6	8.5	1.2	<0.2	1.1	12	88	12	0	18	130
IW36	12/7/2015	<1.0	1.6	<1.0	<1.0	3.8	0	17	0	0	61	77
IW37	12/7/2015	1.3	13	2	<0.2	1.5	10	134	21	0	24	189

1,1-DCE = 1,1-dichloroethene
cDCE = cis-1,2-dichloroethene
cVOC = chlorinated volatile organic compound
µg/L = micrograms per liter
nmol/L = nanomoles per liter
tDCE = trans-1,2-dichloroethene
TCE = trichloroethene
VC = vinyl chloride
VOC = volatile organic compound

Note:

1. Data presented is most recent as of December 2015.

Table 8-3
Summary of Indiviual Well Concentration Trend Analysis
Boeing Auburn Remedial Investigation
Auburn, Washington

Trend - Number of Wells	Trichoroethene				
	Water Table	Shallow Zone	Intermediate Zone	Deep Zone	**Total**
Decreasing	1	46	37	18	**102**
Stable	2	11	12	5	**30**
Non-Detect	12	29	23	14	**78**
Increasing	0	3	7	6	**16**
Insufficient Data/No Trend	3	9	11	1	**24**
Total Number of Wells	**18**	**98**	**90**	**44**	**250**

Trend - Number of Wells	Vinyl Chloride				
	Water Table	Shallow Zone	Intermediate Zone	Deep Zone	**Total**
Decreasing	3	45	26	13	**87**
Stable	3	11	12	3	**29**
Non-Detect	4	22	35	21	**82**
Increasing	0	5	5	2	**12**
Insufficient Data/No Trend	8	15	12	5	**40**
Total Number of Wells	**18**	**98**	**90**	**44**	**250**

Table 8-4
Plume Mass and Stability MAROS Analysis
Boeing Auburn Remedial Investigation
Auburn, Washington

Year	Shallow Zone - Trichoroethene					Shallow Zone - Vinyl Chloride				
	Change in Total Mass over Time		Change in the Center of Mass over Time			Change in Total Mass over Time		Change in the Center of Mass over Time		
	Est. Mass (kg)	Est. Mass (lbs)	X (ft)	Y (ft)	Source Distance (a)	Est. Mass (kg)	Est. Equiv. Mass TCE (lbs)	X (ft)	Y (ft)	Source Distance (a)
2011	4.3	9.5	1,290,036	109,853	2,120	1.7	7.88	1,289,463	111,272	3,643
2012	4.3	9.5	1,290,001	109,803	2,081	1.8	8.34	1,289,466	111,337	3,704
2013	4.5	9.9	1,289,981	109,889	2,169	1.8	8.34	1,289,501	111,242	3,603
2014	4.1	9.0	1,289,942	109,918	2,208	1.8	8.34	1,289,473	111,395	3,757
2015	3.8	8.4	1,289,950	109,925	2,212	1.8	8.34	1,289,422	111,537	3,908
Coefficient of Variation	0.06		0.03			0.02		0.03		
Mann-Kendall Statistic	-6		8			0		6		
Confidence in Trend	88.3%		95.8%			40.8%		88.3%		
Moment Trend	Stable		Increasing			Stable		No Trend		

Year	Intermediate Zone - Trichloroethene					Intermediate Zone - Vinyl Chloride				
	Change in Total Mass over Time		Change in the Center of Mass over Time			Change in Total Mass over Time		Change in the Center of Mass over Time		
	Est. Mass (kg)	Est. Mass (lbs)	X (ft)	Y (ft)	Source Distance (a)	Est. Mass (kg)	Est. Equiv. Mass TCE (lbs)	X (ft)	Y (ft)	Source Distance (a)
2011	22.0	48.5	1,290,780	111,926	4,127	1.6	7.4	1,289,945	109,356	1,676
2012	24.0	52.9	1,290,731	111,924	4,123	1.5	7.0	1,289,921	109,365	1,694
2013	22.0	48.5	1,290,681	111,909	4,106	1.4	6.5	1,289,922	109,424	1,748
2014	22.0	48.5	1,290,683	111,912	4,109	1.5	7.0	1,290,038	109,758	2,027
2015	20.0	44.1	1,290,663	111,907	4,103	1.3	6.0	1,289,827	109,719	2,056
Coefficient of Variation	0.06		0.00			0.07		0.10		
Mann-Kendall Statistic	-8		-8			-6		10		
Confidence in Trend	95.8%		95.8%			88.3%		99.2%		
Moment Trend	Decreasing		Decreasing			Stable		Increasing		

Year	Deep Zone - Trichloroethene					Deep Zone - Vinyl Chloride				
	Change in Total Mass over Time		Change in the Center of Mass over Time			Change in Total Mass over Time		Change in the Center of Mass over Time		
	Est. Mass (kg)	Est. Mass (pounds)	X (feet)	Y (feet)	Source Distance (a)	Est. Mass (kg)	Est. Equiv. Mass TCE (pounds)	X (feet)	Y (feet)	Source Distance (a)
2011	14.0	30.9	1,290,110	111,712	3,936	0.24	1.1	1,289,938	110,512	2,783
2012	15.0	33.1	1,290,093	111,697	3,923	0.20	0.9	1,289,995	110,623	2,879
2013	15.0	33.1	1,290,085	111,693	3,920	0.18	0.8	1,290,038	110,533	2,782
2014	14.0	30.9	1,290,114	111,667	3,891	0.24	1.1	1,290,286	110,948	3,158
2015	14.0	30.9	1,290,096	111,745	3,970	0.15	0.7	1,289,916	110,647	2,919
Coefficient of Variation	0.02		0.01			0.2		0.05		
Mann-Kendall Statistic	0		-2			-6		4		
Confidence in Trend	40.8%		59.2%			88.3%		75.8%		
Moment Trend	Stable		Stable			Stable		No Trend		

Equiv. = equivalent
Est. = estimated
kg = kilogram
TCE = trichloroethene

Note

a. AGW201 selected as arbirtary facility source location for analysis purposes.

Table 8-5
Summary of MAROS Plume Mass Analysis
Boeing Auburn Remedial Investigation
Auburn, Washington

Groundwater Zone	Trichloroethene		Vinyl Chloride	
	Average Mass (kg)	Mass Trend	Average Mass (kg)	Mass Trend
Shallow	4.2	Stable	1.8	Stable
Intermediate	22.0	Decreasing	1.5	Stable
Deep	14.4	Stable	0.2	Stable
Total Mass (kg)	40.6		3.5	
Total Plume Mass (kg; equivalents as trichloroethene)	48.0			

kg = kilogram

Note
1. Plume mass was calculated by averaging the mass over the last five years (2011 through 2015).

Table 9-1
Surface Water Results: Algona Ditches
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level (a)	SW-CD1 9/17/2012	SW-CD2 Max	SW-CD2 Date	SW-CD2 Most Recent	SW-CD2 Date	SW-CD3 9/7/2012
VOLATILES (µg/L)							
Acetone	7200	5 U	ND	--	5 U	9/5/2014	5 U
Chloroform	55	0.2 U	ND	--	0.2 U	9/5/2014	0.2 U
cis-1,2-Dichloroethene	NA	**1.1**	**0.3**	5/30/2014	0.2 U	9/5/2014	0.2 U
Tetrachloroethene	10	0.02 U	ND	--	0.2 U	9/5/2014	0.02 U
Toluene	57	0.2 U	ND	--	0.2 U	9/5/2014	0.2 U
Trichloroethene	58	**1.3**	**0.068**	2/27/2014	0.2 U	9/5/2014	0.2 U
Vinyl Chloride	15	**0.059**	**0.43**	2/27/2014	**0.1**	9/5/2014	0.02 U

Detected Analyte	Sample Location: / Screening Level (a)	SW-CD4/SW-4 Max	SW-CD4/SW-4 Date	SW-CD4/SW-4 Most Recent	SW-CD4/SW-4 Date	SW-CD13 Max	SW-CD13 Date	SW-CD13 Most Recent	SW-CD13 Date
VOLATILES (µg/L)									
Acetone	7200	**6.4**	8/27/2014	5.0 U	9/23/2015	ND	--	5 U	12/2/2014
Chloroform	55	**0.4**	8/27/2014	0.2 U	9/23/2015	ND	--	0.2 U	12/2/2014
cis-1,2-Dichloroethene	NA	**1.5**	9/17/2012	**0.8**	9/23/2015	**1.2**	12/2/2014	**1.2**	12/2/2014
Tetrachloroethene	10	**0.032**	6/20/2012	0.2 U	9/23/2015	ND	--	0.2 U	12/2/2014
Toluene	57	**0.2**	5/30/2014	0.2 U	9/23/2015	ND	--	0.2 U	12/2/2014
Trichloroethene	58	**1.7**	9/5/2014	**1.3**	9/23/2015	**0.13**	2/27/2014	0.2 U	12/2/2014
Vinyl Chloride	15	**0.4**	12/5/2013	**0.088**	9/23/2015	**0.54**	12/2/2014	**0.54**	12/2/2014

Detected Analyte	Sample Location: / Screening Level (a)	SWRD-01 11/25/2013	SWRD-02 11/25/2013	SWRD-03 11/25/2013	SWRD-04 11/26/2013	SWRD-05 11/25/2013	SWRD-06 11/25/2013	SWRD-07 11/25/2013	SWRD-08 11/25/2013
VOLATILES (µg/L)									
Acetone	7200	5 U	**8**	5 U	**12**	**5.4**	**5.2**	**5.2**	**7.6**
Chloroform	55	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	NA	**0.6**	**0.4**	0.2 U	**0.2**	**1.4**	0.2 U	0.2 U	0.2 U
Tetrachloroethene	10	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Toluene	57	**1.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.8**
Trichloroethene	58	**0.8**	**0.19**	0.02 U	**0.045**	**1.5**	**0.022**	0.02 U	0.02 U
Vinyl Chloride	15	**0.3**	**0.085**	0.02 U	**0.13**	**0.26**	**0.07**	0.02 U	0.02 U

Detected Analyte	Sample Location: / Screening Level (a)	SWRD-09 11/25/2013	SWRD-11 11/25/2013	SWRD-12 11/25/2013	SWRD-13 11/25/2013	SWRD-14 11/25/2013	SWRD-15 11/25/2013	SWRD-16 11/25/2013	SWRD-17 11/25/2013
VOLATILES (µg/L)									
Acetone	7200	**7.9**	**6.9**	**6.6**	**6.1**	**10**	**17**	**5.9**	5 U
Chloroform	55	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	NA	0.2 U	0.2 U	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	10	0.02 U	0.02 U	**0.15**	**0.12**	0.02 U	0.02 U	0.02 U	0.02 U
Toluene	57	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**2.8**
Trichloroethene	58	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Vinyl Chloride	15	0.02 U	**0.3**	**0.2**	**0.14**	0.02 U	0.02 U	0.02 U	0.02 U

Table 9-1
Surface Water Results: Algona Ditches
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level (a)	SWRD-18 11/26/2013	SWRD-21 11/26/2013	SWRD-22 11/26/2013
VOLATILES (µg/L)				
Acetone	7200	**18**	5 U	5 U
Chloroform	55	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	NA	0.2 U	0.2 U	0.2 U
Tetrachloroethene	10	0.02 U	0.02 U	**0.042**
Toluene	57	**0.3**	0.2 U	0.2 U
Trichloroethene	58	0.02 U	0.02 U	0.02 U
Vinyl Chloride	15	0.02 U	0.02 U	0.02 U

-- = not applicable
NA = screening level not available
µg/L = micrograms per liter
U = the compound was undetected at the reported concentration

Notes:

1. Surface water sampling locations from the Chicago Avenue ditch are idenitifed by the SW-CD prefix; locations from roadside ditches are identified by the SW-RD prefix.
2. Surface water results presented are either concentrations from a one time sampling event or maximum concentration detected and most recent concentration detected (as of December 2015).
3. **Bold** text indicates detected analyte.

a. Screening levels presented are for Area D. For additional information regarding screening levels, see Section 5.0.

Table 9-2
Surface Water Results: Algona Ponded Yard Water
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: Screening Level (a)	SWYP-01 1/16/2014	SWYP-02 1/16/2014	SWYP-03 1/16/2014	SWYP-04 1/16/2014	SWYP-05 1/16/2014	SWYP-06 1/16/2014
VOLATILES (µg/L)							
cis-1,2-Dichloroethene	NA	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	58	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Vinyl Chloride	15	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

Detected Analyte	Sample Location: Screening Level (a)	SWYP-07 1/16/2014	SWYP-08 1/16/2014	SWYP-09 1/16/2014	SWYP-10 1/16/2014	SWYP-11 1/16/2014	SWYP-12 3/13/2014
VOLATILES (µg/L)							
cis-1,2-Dichloroethene	NA	1 U	1 U	1 U	1 U	1 U	**1**
Trichloroethene	58	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	**0.055**
Vinyl Chloride	15	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	**0.039**

µg/L = micrograms per liter
NA = Screening level not available
U = Indicates the compound was undetected at the reported concentration.

Notes:

1. Surface water sampling locations from ponded yard water are identified by the SWYP prefix.
2. Surface water results presented are concentrations from a one time sampling event.
3. **Bold** text indicates detected analyte.

a. Screening levels presented are for Area D. For additional information regarding screening levels, see Section 5.0.

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Table 9-3
Surface Water Results: Auburn Stormwater Features
Boeing Auburn Remedial Investigation
Auburn, Washington

Sample Location:		SW-3				SW-5	SW-10			
Detected Analyte	Screening Level (a)	Max	Date	Most Recent	Date	6/20/2012	Max	Date	Most Recent	Date
VOLATILES (µg/L)										
Acetone	7200	ND	--	5 U	3/24/2014	**5.6**	ND	--	5 U	3/24/2014
cis-1,2-Dichloroethene	NA	ND	--	0.2 U	3/24/2014	0.2 U	ND	--	0.2 U	3/24/2014
Tetrachloroethene	10	**0.02**	6/20/2012	0.2 U	3/24/2014	**0.1**	**0.032**	6/19/2012	0.2 U	3/24/2014
Toluene	57	**0.4**	6/20/2012	0.2 U	3/24/2014	**1.5**	ND	--	0.2 U	3/24/2014
Trichloroethene	58	ND	--	0.2 U	3/24/2014	0.2 U	ND	--	0.2 U	3/24/2014
Vinyl Chloride	98	ND	--	0.02 U	3/24/2014	0.02 U	ND	--	0.02 U	3/24/2014

Sample Location:		SW-11	SW-12				SW-14			
Detected Analyte	Screening Level (a)	6/9/2012	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)										
Acetone	7200	5 U	ND	--	5 U	4/2/2014	5.0 U	9/23/2015	5.0 U	9/23/2015
cis-1,2-Dichloroethene	NA	**0.5**	ND	--	0.2 U	4/2/2014	**0.8**	3/24/2014	**0.5**	9/23/2015
Tetrachloroethene	10	**0.029**	ND	--	0.2 U	4/2/2014	0.2 U	9/23/2015	0.2 U	9/23/2015
Toluene	57	**1.8**	**1.9**	7/2/2013	0.2 U	4/2/2014	**0.2**	9/23/2015	**0.2**	9/23/2015
Trichloroethene	58	0.2 U	ND	--	0.2 U	4/2/2014	**1**	7/2/2013	**0.8**	9/23/2015
Vinyl Chloride	98	**0.087**	ND	--	0.02 U	4/2/2014	**0.2**	9/5/2014	**0.056**	9/23/2015

Sample Location:		SW-15				SW-16			
Detected Analyte	Screening Level (a)	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
Acetone	7200	ND	--	5 U	9/5/2014	ND	--	5.0 U	9/23/2015
cis-1,2-Dichloroethene	NA	ND	--	0.2 U	9/5/2014	**1.5**	7/2/2013	**0.4**	9/23/2015
Tetrachloroethene	10	ND	--	0.2 U	9/5/2014	ND	--	0.2 U	9/23/2015
Toluene	57	**0.8**	7/2/2013	**0.3**	9/5/2014	**0.8**	9/23/2015	**0.8**	9/23/2015
Trichloroethene	58	ND	--	0.2 U	9/5/2014	**1.1**	7/2/2013	**0.2**	9/23/2015
Vinyl Chloride	98	ND	--	0.02 U	9/5/2014	**0.32**	9/5/2014	**0.023**	9/23/2015

Table 9-3
Surface Water Results: Auburn Stormwater Features
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: Screening Level (a)	SW-19 Max	Date	Most Recent	Date
VOLATILES (µg/L)					
Acetone	7200	ND	--	5 U	9/5/2014
cis-1,2-Dichloroethene	NA	ND	--	0.2 U	9/5/2014
Tetrachloroethene	10	ND	--	0.2 U	9/5/2014
Toluene	57	**19**	9/5/2014	**19**	9/5/2014
Trichloroethene	58	ND	--	0.2 U	9/5/2014
Vinyl Chloride	98	**0.13**	9/5/2014	**0.13**	9/5/2014

-- = not applicable
µg/L = micrograms per liter
NA = screening level not available
U = Indicates the compound was undetected at the reported concentration

Notes:

1. Surface water sampling locations are idenitifed by the SW prefix.
2. Surface water results presented are either concentrations from a one time sampling event or maximum concentration detected and most recent concentration detected (as of December 2015).
3. **Bold** text indicates detected analyte.

a. Screening levels presented are for Area C. For additional information regarding screening levels, see Section 5.0.

Table 9-4
Surface Water Results: Auburn Wetlands
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location:	SW-1	SW-6	SW-7	SW-8	SW-9
	Screening Level (µg/L) (a)	6/19/2012	6/20/2012	6/19/2012	6/19/2012	6/19/2012
VOLATILES (µg/L)						
Acetone	7200	**12**	5 U	**17**	5 U	5 U
cis-1,2-Dichloroethene	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	57	**4.2**	0.2 U	**1.5**	**3.3**	**0.5**
Vinyl Chloride	1.6	0.02 U	0.02 U	0.04 U	0.02 U	0.04 U

Detected Analyte	Sample Location:	SW-17				SW-20			
	Screening Level (µg/L) (a)	Max	Date	Most Recent	Date	Max	Date	Most Recent	Date
VOLATILES (µg/L)									
Acetone	7200	ND	--	5.0 U	9/23/2015	ND	--	5.0 U	9/23/2015
cis-1,2-Dichloroethene	NA	**0.2**	7/2/2013	0.2 U	9/23/2015	ND	--	0.2 U	9/23/2015
Toluene	57	**2**	9/23/2015	**2**	9/23/2015	**2.4**	9/23/2015	**2.4**	9/23/2015
Vinyl Chloride	1.6	**0.063**	7/2/2013	0.020 U	9/23/2015	ND	--	0.020 U	9/23/2015

Detected Analyte	Sample Location:	SW-22	SW-25	SW-26
	Screening Level (µg/L) (a)	3/24/2014	9/24/2015	9/24/2015
VOLATILES (µg/L)				
Acetone	7200	**5.8**	5.0 U	5.0 U
cis-1,2-Dichloroethene	NA	0.2 U	0.2 U	0.2 U
Toluene	57	**6.6**	**6.3**	**4.0**
Vinyl Chloride	1.6	0.02 U	0.020 U	0.020 U

-- = Not Applicable
µg/L = micrograms per liter
NA = Screening level not available
U = Indicates the compound was undetected at the reported concentration.

Notes:

1. Surface water sampling locations are identified by the SW prefix.
2. Surface water results presented are either concentrations from a one time sampling event or maximum concentration detected and most recent concentration detected (as of December 2015).
3. **Bold** text indicates detected analyte.

a. Screening levels presented are for Area B. For additional information regarding screening levels, see Section 5.0.

Table 9-5
Surface Water Results: Mill Creek
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: Screening Level (a)	SW-2 6/19/2012	SW-18 Max	Date	Most Recent	Date
VOLATILES (µg/L)						
Toluene	57	0.2 U	**0.4**	7/2/2013	**0.3**	9/23/2015

Detected Analyte	Sample Location: Screening Level (a)	SW-21 Max	Date	Most Recent	Date	SW-23 9/24/2015
VOLATILES (µg/L)						
Toluene	57	**0.4**	9/5/2014	**0.4**	9/5/2014	**0.8**

Detected Analyte	Sample Location: Screening Level (a)	SW-24 9/24/2015
VOLATILES (µg/L)		
Toluene	57	0.2 U

-- = not applicable
µg/L = micrograms per liter
NA = screening level not available
U = the compound was undetected at the reported concentration.

Notes:

1. Surface water sampling locations are identified by the SW prefix.
2. Surface water results presented are either concentrations from a one time sampling event or maximum concentration detected and most recent concentration detected (as of December 2015).
3. **Bold** text indicates detected analyte.

a. Screening levels presented are for Area A. For additional information regarding screening levels, see Section 5.0.

Table 9-6
Sediment Pore Water Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Detected Analyte	Sample Location: / Screening Level (a)	PW-23 9/24/2015	PW-24 9/24/2015	PW-25 9/24/2015	PW-26 9/24/2015
VOLATILES (µg/L)					
Acetone	**7200**	**17**	**19**	**14**	**19**

-- = not applicable
µg/L = micrograms per liter
NA = screening level not available
U = the compound was undetected at the reported concentration.

Notes:

1. Sediment pore water sampling locations are identified by the PW prefix.
2. Sediment pore water results presented are concentrations from a one time sampling event.
3. **Bold** text indicates detected analyte.

a. Groundwater screening levels used for sediment pore water.

Table 10-1
Industrial Soil Gas Analytical Data
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	Sample Location: / Screening Level (a)	SSV01 Building 17-07 4/22/2011	SSV02 Building 17-07 4/22/2011	SSV03 Building 17-07 4/22/2011	SSV04 Building 17-07 10/6/2011
VOLATILES (µg/m^3)					
1,1,1-Trichloroethane	76190	3.6 U	3.6 U	3.6 U	1.7 U
1,1,2,2-Tetrachloroethane	1.4	4.5 U	4.5 U	4.5 U	--
1,1-Dichloroethane	520	2.7 U	2.7 U	2.7 U	1.3 U
1,1-Dichloroethene	3047	2.6 U	2.6 U	2.6 U	3.3 U
cis-1,2-Dichloroethene	NA	2.6 U	2.6 U	2.6 U	1.7 U
Tetrachloroethene	1300	**5.6**	4.5 U	4.5 U	2.9 U
trans-1,2-Dichloroethene	NA	**3.8**	2.6 U	2.6 U	1.7 U
Trichloroethene	67	3.6 U	3.6 U	3.6 U	2.3 U
Vinyl Chloride	95	1.7 U	1.7 U	1.7 U	0.54 U

Analyte	Sample Location: / Screening Level (a)	SSV05 Building 17-07 8/16/2011	SSV07 Building 17-07 10/6/2011	SSV08 Building 17-07 4/22/2011	SSV09 Building 17-07 4/22/2011
VOLATILES (µg/m^3)					
1,1,1-Trichloroethane	76190	**1.3 J**	2.5 U	8.8 U	5 U
1,1,2,2-Tetrachloroethane	1.4	--	--	11.2 U	6.4 U
1,1-Dichloroethane	520	0.26 U	**2.4**	6.6 U	3.8 U
1,1-Dichloroethene	3047	0.51 U	4.9 U	6.5 U	3.7 U
cis-1,2-Dichloroethene	NA	0.71 U	**30**	6.5 U	3.7 U
Tetrachloroethene	1300	**3.2 J**	4.2 U	**13.3**	**220**
trans-1,2-Dichloroethene	NA	**1.1 J**	2.4 U	6.5 U	**16**
Trichloroethene	67	**0.18 J**	**6.7**	8.8 U	**5**
Vinyl Chloride	95	0.16 U	0.79 U	4.2 U	2.4 U

Analyte	Sample Location: / Screening Level (a)	SSV10 Building 17-07 4/22/2011	SSV11 Building 17-07 4/22/2011	SSV12 Building 17-07 4/22/2011	SSV14 Building 17-07 4/22/2011
VOLATILES (µg/m^3)					
1,1,1-Trichloroethane	76190	3.6 U	4.1 U	**56.8 J**	**13.9**
1,1,2,2-Tetrachloroethane	1.4	4.5 U	5.2 U	7.6 UJ	8.5 U
1,1-Dichloroethane	520	2.7 U	3.1 U	**7.4 J**	5 U
1,1-Dichloroethene	3047	2.6 U	3 U	4.4 UJ	4.9 U
cis-1,2-Dichloroethene	NA	2.6 U	3 U	4.4 UJ	4.9 U
Tetrachloroethene	1300	**125**	5.2 U	7.6 UJ	8.5 U
trans-1,2-Dichloroethene	NA	**6.2**	**17.2**	4.4 UJ	4.9 U
Trichloroethene	67	3.6 U	4.1 U	6 UJ	6.7 U
Vinyl Chloride	95	1.7 U	1.9 U	2.8 UJ	3.1 U

Table 10-1
Industrial Soil Gas Analytical Data
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	Sample Location: / Screening Level (a)	SSV15 Building 17-07 4/22/2011	SSV17 Building 17-07 10/6/2011	SSV18 Building 17-07 4/22/2011	SSV20 Building 17-07 4/22/2011
VOLATILES (µg/m^3)					
1,1,1-Trichloroethane	76190	**42.7**	2.1 U	6.9 U	**64.1**
1,1,2,2-Tetrachloroethane	1.4	4.5 U	--	8.8 U	2.7 U
1,1-Dichloroethane	520	2.7 U	**19**	5.1 U	1.6 U
1,1-Dichloroethene	3047	2.6 U	**45**	5.1 U	1.6 U
cis-1,2-Dichloroethene	NA	2.6 U	**310**	5.1 U	1.6 U
Tetrachloroethene	1300	**5**	**21**	8.8 U	**7.7**
trans-1,2-Dichloroethene	NA	2.6 U	**36**	5.1 U	**2.4**
Trichloroethene	67	3.6 U	**500**	6.9 U	2.1 U
Vinyl Chloride	95	1.7 U	**350**	3.3 U	1 U

Analyte	Sample Location: / Screening Level (a)	SSV21 Building 17-07 4/22/2011	SSV22 Building 17-07 10/6/2011	SSV23 Building 17-07 10/6/2011	SSV24 Building 17-07 4/22/2011
Volatiles (µg/m^3)					
1,1,1-Trichloroethane	76190	2 U	1.6 U	1.6 U	**6.6**
1,1,2,2-Tetrachloroethane	1.4	2.6 U	--	--	2.7 U
1,1-Dichloroethane	520	1.5 U	1.2 U	1.2 U	1.6 U
1,1-Dichloroethene	3047	1.5 U	3.2 U	3.2 U	1.6 U
cis-1,2-Dichloroethene	NA	1.5 U	1.6 U	**2.5**	1.6 U
Tetrachloroethene	1300	**4.7**	2.7 U	2.7 U	**7**
trans-1,2-Dichloroethene	NA	**4.7**	1.6 U	**2.2**	**13.7**
Trichloroethene	67	**4.9**	2.1 U	2.1 U	**24.2**
Vinyl Chloride	95	0.97 U	0.51 U	**3.8**	1 U

Analyte	Sample Location: / Screening Level (a)	SSV26 Building 17-07 4/22/2011	SSV27 Building 17-07 10/6/2011	SSV28 Building 17-07 10/6/2011	SSV29 Building 17-07 4/22/2011
VOLATILES (µg/m^3)					
1,1,1-Trichloroethane	76190	**14**	1.6 U	**9**	**216**
1,1,2,2-Tetrachloroethane	1.4	**5**	--	--	2.6 U
1,1-Dichloroethane	520	1.6 U	**7.2**	**20**	**185**
1,1-Dichloroethene	3047	1.6 U	**47**	**12**	1.5 U
cis-1,2-Dichloroethene	NA	1.6 U	**65**	**4.5**	**23.3**
Tetrachloroethene	1300	**9.3**	**7**	**160**	**5.1**
trans-1,2-Dichloroethene	NA	**13**	**12**	1.6 U	**9.6**
Trichloroethene	67	2.2 U	**72**	**190**	**1010**
Vinyl Chloride	95	1 U	**190**	0.51 U	0.97 U

Table 10-1
Industrial Soil Gas Analytical Data
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	Sample Location: / Screening Level (a)	SSV30 Building 17-07 4/22/2011	SSV31 Building 17-07 4/22/2011	SSV32 Building 17-07 4/22/2011	SSV33 Building 17-07 4/22/2011
VOLATILES (µg/m^3)					
1,1,1-Trichloroethane	76190	**18.4**	**10.1**	**53.1**	2.1 U
1,1,2,2-Tetrachloroethane	1.4	2.2 U	1.3 U	1.2 U	1.3 U
1,1-Dichloroethane	520	2.6 U	**171**	**35.3**	1.6 U
1,1-Dichloroethene	3047	2.5 U	1.6 U	1.4 U	1.6 U
cis-1,2-Dichloroethene	NA	**3.7**	**40.4**	**26.8**	1.6 U
Tetrachloroethene	1300	2.2 U	1.3 U	1.2 U	**3.5**
trans-1,2-Dichloroethene	NA	**34.3**	**40.4**	**6**	**15**
Trichloroethene	67	**32.7**	**36.5**	**168**	1.1 U
Vinyl Chloride	95	0.81 U	0.5 U	0.45 U	0.5 U

Analyte	Sample Location: / Screening Level (a)	SSV34 Building 17-07 4/22/2011	SSV35 Building 17-07 4/22/2011	SSV36 Building 17-07 4/22/2011	SSV37 Building 17-12 4/22/2011
VOLATILES (µg/m^3)					
1,1,1-Trichloroethane	76190	**55.5**	**7.3**	**95.9**	**111**
1,1,2,2-Tetrachloroethane	1.4	2.7 U	**4.5**	2.7 U	2.5 U
1,1-Dichloroethane	520	1.6 U	1.6 U	**9.6**	**7.5**
1,1-Dichloroethene	3047	1.6 U	1.6 U	1.6 U	**7.1**
cis-1,2-Dichloroethene	NA	1.6 U	1.6 U	1.6 U	1.5 U
Tetrachloroethene	1300	2.7 U	**1.8**	**3.5**	2.5 U
trans-1,2-Dichloroethene	NA	**5.1**	**9.2**	**5.3**	**19**
Trichloroethene	67	**11**	**1.6**	2.1 U	2 U
Vinyl Chloride	95	1 U	0.5 U	1 U	0.94 U

Analyte	Sample Location: / Screening Level (a)	SSV38 Building 17-12 4/22/2011	SSV39 Building 17-12 4/22/2011	SSV40 Building 17-12 4/22/2011	SSV41 Building 17-12 8/16/2011
VOLATILES (µg/m^3)					
1,1,1-Trichloroethane	76190	**25.8**	**29.2**	**209**	**21**
1,1,2,2-Tetrachloroethane	1.4	2.5 U	2.8 U	2.7 U	--
1,1-Dichloroethane	520	1.5 U	1.6 U	**16.5**	0.27 U
1,1-Dichloroethene	3047	1.5 U	1.6 U	1.6 U	0.53 U
cis-1,2-Dichloroethene	NA	1.5 U	1.6 U	1.6 U	0.74 U
Tetrachloroethene	1300	2.5 U	2.8 U	2.7 U	**2.2**
trans-1,2-Dichloroethene	NA	**74.7**	1.6 U	**10.9**	**1.8**
Trichloroethene	67	2 U	2.2 U	**2.3**	**0.87**
Vinyl Chloride	95	0.94 U	1 U	1 U	0.17 U

Table 10-1
Industrial Soil Gas Analytical Data
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	Sample Location: Screening Level (a)	SSV42 Building 17-07 8/16/2011	SSV43 Building 17-07 8/16/2011	SSV44 Building 17-07 8/16/2011
VOLATILES (µg/m^3)				
1,1,1-Trichloroethane	76190	**50**	**160**	**0.5**
1,1,2,2-Tetrachloroethane	1.4	--	--	--
1,1-Dichloroethane	520	**0.26**	33 U	0.27 U
1,1-Dichloroethene	3047	0.51 U	32 U	0.53 U
cis-1,2-Dichloroethene	NA	0.71 U	32 U	0.74 U
Tetrachloroethene	1300	**5.6**	55 U	**2.1**
trans-1,2-Dichloroethene	NA	**0.57**	**180**	**1.1**
Trichloroethene	67	**1.1**	**49**	**1**
Vinyl Chloride	95	0.16 U	21 U	0.17 U

-- not analyzed
J = Indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
µg/m^3 = micrograms per cubic meter
NA = Screening level not available
U = Indicates the compound was not detected at the reported concentration.
UJ = The analyte was not detected in the sample; the reported sample reporting limit is an estimate.

Notes:

1. **Bold** text indicates detected analyte.
2. Green shading indicates exceedance of screening level.
3. SSV-6, SSV-13, SSV-16, SSV-19, SSV-25 were never collected.
4. Sub-slab soil vapor sample locations are identified by the SSV prefix.

a. Soil gas screening levels protective of MTCA Method C air cleanup levels. The lower (i.e., more restrictive) value of carcinogenic and non-carcinogenic is shown.

Table 10-2
Industrial Indoor Air Analytical Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	Sample Location: / Screening Level (a)	AA02 Building 17-07 2/29/2012	AA06 Building 17-07 4/8/2013	IA03 Building 17-07 2/29/2012	IA04 Building 17-07 2/29/2012	IA05 Building 17-07 2/29/2012
VOLATILES (µg/m^3)						
cis-1,2-Dichloroethene	NA	0.198 U	0.13 U	0.198 U	0.198 U	0.198 U
Tetrachloroethene	40	0.339 U	0.22 U	0.339 U	0.339 U	0.339 U
Trichloroethene	2	0.269 U	0.18 U	0.269 U	0.269 U	0.269 U
Vinyl Chloride	2.8	0.128 U	0.042 U	0.128 U	0.128 U	0.128 U

Analyte	Sample Location: / Screening Level (a)	IA06 Building 17-07 2/29/2012	IA07 Building 17-07 2/29/2012	IA11 Building 17-07 4/8/2013	IA12 Building 17-07 4/8/2013
VOLATILES (µg/m^3)					
cis-1,2-Dichloroethene	NA	0.198 U	0.198 U	0.12 U	0.13 U
Tetrachloroethene	40	0.339 U	0.339 U	0.21 U	0.22 U
Trichloroethene	2	0.269 U	0.269 U	0.17 U	0.18 U
Vinyl Chloride	2.8	0.128 U	0.128 U	0.04 U	0.042 U

µg/m^3 = micrograms per cubic meter
NA = screening level not available
U = the compound was not detected at the reported concentration

Note:
1. Indoor air sample locations are identified by the IA prefix. Ambient air sample locations are identified by the AA prefix.

a. MTCA Method C Air Cleanup Levels. The lower (i.e. more restrictive) value of carcinogenic and non-carcinogenic is shown.

Table 10-3
Commerical: Fana and Prologis Air Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Indoor and Ambient Air	Sample Location:	IA08	IA09	AA03 (b)	AA04 (c)	IA01
		Prologis	Prologis	Prologis	Prologis	Fana
Analyte	Screening Level (a)	2/29/2012	2/29/2012	2/29/2012	2/29/2012	2/28/2012
VOLATILES (µg/m^3)						
cis-1,2-Dichloroethene	NA	0.198 U	0.198 U	0.198 U	0.198 U	19.8 U
Tetrachloroethene	29	0.339 U	**0.372**	0.339 U	0.339 U	**918**
Trichloroethene	1.9	0.269 U	0.269 U	0.269 U	0.269 U	26.9 U
Vinyl Chloride	0.85	0.128 U	0.128 U	0.128 U	0.128 U	12.8 U

Indoor and Ambient Air	Sample Location:	IA02	IA10	AA01 (c)	AA05
		Fana	Fana	Fana	Fana
Analyte	Screening Level (a)	2/28/2012	8/23/2012	2/28/2012	8/26/2012
VOLATILES (µg/m^3)					
cis-1,2-Dichloroethene	NA	0.198 U	0.05 U	0.198 U	0.05 U
Tetrachloroethene	29	0.339 U	0.05 U	0.339 U	0.05 U
Trichloroethene	1.9	0.269 U	0.05 U	0.269 U	0.05 U
Vinyl Chloride	0.85	0.128 U	0.05 U	0.128 U	0.05 U

Sub-Slab Soil Vapor	Sample Location:	SSV49
		Fana
Analyte	Screening Level (a)	8/23/2016
VOLATILES (µg/m^3)		
cis-1,2-Dichloroethene	NA	2.0
Tetrachloroethene	960	3.4
Trichloroethene	63	2.7
Vinyl Chloride	28	1.3

µg/m^3 = micrograms per cubic meter
NA = Screening level not available
U = Indicates the compound was undetected at the reported concentration.

Notes:

1. **Bold** text indicates detected analyte.
2. Green shading indicates exceedance of screening level.
3. Indoor air sample locations are identified by the IA prefix. Ambient air sample locations are identified by the AA prefix.
4. Sub-slab soil vapor sample locations are identified by the SSV prefix.

a. The Model Toxics Control Act Method B air cleanup level was selected. The lower (i.e., more restrictive) value of carcinogenic and non-carcinogenic is shown.
b. At Prologis, an extra background ambient air sample was collected from the breathing zone near ground level at the request of the building's manager.
c. Rooftop samples were collected from a point near the HVAC system intake point at each of the buildings in which indoor air samples were collected. The rooftop samples represent background ambient air concentrations entering the building and not impacted by vapor intrusion.

Table 10-4
Commercial: YMCA Air Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Indoor Air Samples	Sample Location:	IA15 Main Office	IA060 Main Office	IA16 Total Health Room	IA061 Total Health Room
Analyte	Screening Level (a)	7/2/2013	12/17/2013	7/2/2013	12/17/2013
VOLATILES (µg/m^3)					
Trichloroethene	1.9	0.18 U	0.18 U	0.18 U	**0.22**
Vinyl Chloride	0.85	**0.32**	**0.053**	**0.38**	**0.072**

Ambient Air Samples	Sample Location:	AA07 YMCA South Parking Lot	AA025 YMCA Roof (b)
Analyte	Screening Level (a)	7/2/2013	12/17/2013
VOLATILES (µg/m^3)			
Trichloroethene	1.9	0.18 U	0.17 U
Vinyl Chloride	0.85	0.044 U	0.04 U

Sub-Slab Soil Vapor Samples	Sample Location:	SSV46 Crawlspace	SSV47 Storage Room	SSV48 Boiler Room	SSV062 Data Room
Analyte	Screening Level (a)	2/29/2012	2/29/2012	2/29/2012	12/18/2013
VOLATILES (µg/m^3)					
Trichloroethene	63	2.7 U	2.7 U	2.7 U	6 U
Vinyl Chloride	28	1.3 U	1.3 U	1.3 U	2.9 U

U = the compound was not detected at the reported concentration.

Notes:

1. **Bold** text indicates detected analyte.
2. Indoor air sample locations are identified by the IA prefix. Ambient air sample locations are identified by the AA prefix.
3. Sub-slab soil vapor sample locations are identified by the SSV prefix.

a. The MTCA Method B air and soil gas cleanup levels were selected. The lower (i.e., more restrictive) value of carcinogenic and non-carcinogenic is shown.

b. The rooftop sample was collected from a point near the HVAC system intake point. The rooftop sample represent background ambient air concentrations entering the building and not impacted by vapor intrusion.

Table 10-5
Commercial: Junior Achievement Air Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Indoor and Ambient Air	Sample Location:	AA07 YMCA South Parking Lot	IA13 Office Space	IA14 Mock Wells Fargo Bank
Analyte	Screening Level (a)	7/2/2013	7/2/2013	7/2/2013
VOLATILES (µg/m^3)				
Trichloroethene	1.9	0.18 U	0.18 U	0.18 U
Vinyl Chloride	0.85	0.044 U	0.042 U	0.043 U

µg/m^3 = micrograms per cubic meter

U = Indicates the compound was not detected at the reported concentration.

Note:

1. Indoor air sample locations are identified by the IA prefix. Ambient air sample locations are identified by the AA prefix.

a. The Model Toxics Control Act Method B air cleanup level was selected. The lower (i.e., more restrictive) value of carcinogenic and non-carcinogenic is shown.

Table 10-6
Sewer Manhole Air Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	Sample Location: / Screening Level (a)	SV-907-17 5/20/2013	SV-907-19 5/21/2013	SV-907-27 5/21/2013	SV-907-28 5/21/2013	SV-909-01 5/20/2013
VOLATILES (µg/m^3)						
Tetrachloroethene	390	5.5 U	5.4 U	5.7 U	5.8 U	5.7 U
Trichloroethene	25	4.4 U	4.3 U	**14**	**7.0**	4.5 U
Vinyl Chloride	11	2.1 U	2 U	**3.9**	2.2 U	2.1 U

µg/m^3 = micrograms per cubic meter
U = Indicates the compound was undetected at the reported concentration.

Note:
1. **Bold** text indicates detected analyte.

a. Modified MTCA Method B cleanup levels were calculated specifically for the sewer worker exposure scenario.

Table 10-7
Algona Soil Gas and Groundwater Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Soil Gas	Sample Location:	ASG0250	ASG0251	ASG0251R	ASG0251R2	ASG0254
Analyte	Screening Level (a)	3/17/2015	3/18/2015	4/26/2015	6/25/2015	3/18/2015
VOLATILES (µg/m^3)						
cis-1,2-Dichloroethene	NA	4.0 U	4.0 U	4.0 U	4.0 U	**11**
Trichloroethene	63	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U
Vinyl chloride	28	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U

Groundwater	Sample Location:	ASB0250-7	ASB0251-7	ASB0251R-8	ASB0251R2-8	ASB0254-8
Analyte	Screening Level (b)	3/17/2015	3/18/2015	4/26/2015	6/25/2015	3/18/2015
VOLATILES (µg/L)						
cis-1,2-Dichloroethene	NA	0.2 U	**1.4**	**1.7**	**1.6**	0.2 U
Trichloroethene	7.9	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride	1.0	**0.22**	**0.4**	**0.72**	**1.5**	0.020 U

µg/L = micrograms per liter
µg/m^3 = micrograms per cubic meter
NA = Screening level not available
U = Indicates the compound was undetected at the reported concentration.

Notes:

1. **Bold** text indicates detected analyte.
2. Green shading indicates exceedance of screening level.
3. Soil gas sampling locations are identified by the ASG prefix; co-located groundwater sample locations are identified by the ASB prefix.

a. Soil gas screening level protective of Modified MTCA Method B air screening levels was selected. The lower (i.e., more restrictive) value of carcinogenic and non-carcinogenic is shown.

b. Groundwater screening level protective of Modified MTCA Method B air screening levels was selected. The lower (i.e., more restrictive) value of carcinogenic and non-carcinogenic is shown.

Table 10-8
Auburn Soil Gas and Groundwater Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Soil Gas	Sample Location:	ASG0244	ASG0245	ASG0246	ASG0247	ASG0248
Analyte	Screening Level (a)	3/16/2015	3/16/2015	3/16/2015	3/17/2015	3/17/2015
VOLATILES (µg/m^3)						
cis-1,2-Dichloroethene	NA	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Trichloroethene	63	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U
Vinyl chloride	28	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U

Soil Gas	Sample Location:	ASG0249	ASG0252	ASG0253	ASG0255	ASG0256
Analyte	Screening Level (a)	3/17/2015	3/18/2015	3/18/2015	4/26/2015	4/27/2015
VOLATILES (µg/m^3)						
cis-1,2-Dichloroethene	NA	4.0 U	4.0 U	4.0 U	4.0 U	**5.1**
Trichloroethene	63	5.5 U	5.5 U	5.5 U	5.5 U	**5.6**
Vinyl chloride	28	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U

Soil Gas	Sample Location:	ASG0256R	ASG0257	ASG0258	ASG0259	ASG0260
Analyte	Screening Level (a)	6/25/2015	4/27/2015	4/27/2015	4/28/2015	4/28/2015
VOLATILES (µg/m^3)						
cis-1,2-Dichloroethene	NA	4.0 U	4.0 U	4.0 U	**30**	4.0 U
Trichloroethene	63	5.5 U	5.5 U	5.5 U	**13**	5.5 U
Vinyl chloride	28	2.6 U	2.6 U	**30**	2.6 U	2.6 U

Soil Gas	Sample Location:	ASG0261	ASG0261R	ASG0262	ASG0263
Analyte	Screening Level (a)	4/28/2015	6/26/2015	4/29/2015	4/29/2015
VOLATILES (µg/m^3)					
cis-1,2-Dichloroethene	NA	4.0 U	4.0 U	4.0 U	4.0 U
Trichloroethene	63	**8.2**	5.5 U	5.5 U	5.5 U
Vinyl chloride	28	2.6 U	2.6 U	2.6 U	2.6 U

Groundwater	Sample Location:	ASB0244-9	ASB0245-10	ASB0246-10	ASB0247-7	ASB0248-7
Analyte	Screening Level (b)	3/16/2015	3/16/2015	3/16/2015	3/17/2015	3/17/2015
VOLATILES (µg/L)						
cis-1,2-Dichloroethene	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	7.9	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride	1.0	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U

Groundwater	Sample Location:	ASB0249-7	ASB0252-8	ASB0253-8	ASB0255-10	ASB0256-12
Analyte	Screening Level (b)	3/17/2015	3/18/2015	3/18/2015	4/26/2015	4/27/2015
VOLATILES (µg/L)						
cis-1,2-Dichloroethene	NA	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U
Trichloroethene	7.9	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride	1.0	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U

Table 10-8
Auburn Soil Gas and Groundwater Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Groundwater	Sample Location:	ASB0256R-15	ASB0257-15	ASB0258-10	ASB0259-10	ASB0260-8
Analyte	Screening Level (b)	6/26/2015	4/27/2015	4/28/2015	4/28/2015	4/28/2015
VOLATILES (µg/L)						
cis-1,2-Dichloroethene	NA	0.2 U	0.2 U	**0.4**	**0.4**	0.2 U
Trichloroethene	7.9	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride	1.0	**0.063**	0.020 U	**2.8**	**0.13**	0.020 U

Groundwater	Sample Location:	ASB0261-10	ASB0261R-12	ASB0262-10	ASB0263-10
Analyte	Screening Level (b)	4/28/2015	6/26/2015	4/29/2015	4/29/2015
VOLATILES (µg/L)					
cis-1,2-Dichloroethene	NA	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	7.9	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride	1.0	**0.024**	0.020 U	**0.43**	0.020 U

µg/L = micrograms per liter
µg/m^3 = micrograms per cubic meter
NA = Screening level not available
U = Indicates the compound was undetected at the reported concentration.

Notes:

1. **Bold** text indicates detected analyte.
2. Green shading indicates exceedance of screening level.
3. Soil gas sampling locations are identified by the ASG prefix; co-located groundwater sample locations are identified by the ASB prefix.

a. Soil gas screening level protective of Modified MTCA Method B air screening levels was selected. The lower (i.e., more restrictive) value of carcinogenic and non-carcinogenic is shown.

b. Groundwater screening level protective of Modified MTCA Method B Air screening levels was selected. The lower (i.e., more restrictive) value of carcinogenic and non-carcinogenic is shown.

Table 10-9
Commercial: The Outlet Collection Air Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Indoor and Ambient Air	Sample Location:	AA034	AA035	IA077	IA078	IA079
		Roof	Roof	Hallway	East Tunnel Sump	West Fire Room
Analyte	Screening Level (a)	4/27/2015	6/4/2015	4/27/2015	4/27/2015	4/27/2015
VOLATILES (µg/m^3)						
cis-1,2-Dichloroethene	NA	0.69 U	0.65 U	0.66 U	0.64 U	0.63 U
Trichloroethene	1.9	0.94 U	0.89 U	0.89 U	**11**	0.85 U
Vinyl chloride	0.85	0.45 U	0.42 U	0.42 U	0.41 U	0.41 U

Indoor and Ambient Air	Sample Location:	IA080	IA081	IA082	IA083	IA084
		West Tunnel Sump	South Fire Room	East Tunnel Hallway (b)	East Tunnel Sump	East Tunnel Sump (b)
Analyte	Screening Level (a)	4/27/2015	4/27/2015	6/4/2015	6/4/2015	6/4/2015
VOLATILES (µg/m^3)						
cis-1,2-Dichloroethene	NA	0.66 U	0.66 U	0.60 U	0.64 U	0.61 U
Trichloroethene	1.9	0.89 U	0.89 U	0.81 U	0.87 U	0.83 U
Vinyl chloride	0.85	0.42 U	0.42 U	0.38 U	0.41 U	0.40 U

Sub-Slab Soil Vapor	Sample Location:	SSV071	SSV072	SSV073
		South Fire Room	West Fire Room	Hallway
Analyte	Screening Level (a)	4/28/2015	4/28/2015	4/28/2015
VOLATILES (µg/m^3)				
cis-1,2-Dichloroethene	NA	3.9 U	3.9 U	3.9 U
Trichloroethene	63	5.3 U	5.2 U	5.2 U
Vinyl chloride	28	2.5 U	2.5 U	2.5 U

µg/m^3 = micrograms per cubic meter
NA = Screening level not available
U = Indicates the compound was undetected at the reported concentration.

Notes:
1. **Bold** text indicates detected analyte.
2. Green shading indicates exceedance of screening level.
3. Indoor air sample locations are identified by the IA prefix. Ambient air sample locations are identified by the AA prefix.
4. Sub-slab soil vapor sample locations are identified by the SSV prefix.

a. Soil gas screening level protective of Modified Model Toxics Control Act Method B air screening levels was selected. The lower (i.e., more restrictive) value of carcinogenic and non-carcinogenic is shown.
b. Sample intake was placed at breathing zone height.

Table 10-10
Commercial: Building 17-70 Air Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Indoor and Ambient Air	Sample Location:	AA033	IA075	IA076
		Bldg 17-70 Roof	Bldg 17-70 Room 13A11	Bldg 17-70 Room W6
Analyte	Screening Level (a)	4/20/2015	4/20/2015	4/20/2015
VOLATILES (µg/m^3)				
cis-1,2-Dichloroethene	NA	0.69 U	0.66 U	0.59 U
Trichloroethene	1.9	0.94 U	0.90 U	0.81 U
Vinyl chloride	0.85	0.45 U	0.43 U	0.38 U

Sub-Slab Soil Vapor	Sample Location:	SSV069	SSV070
		Bldg 17-70 Room 13A11	Bldg 17-70 Room W6
Analyte	Screening Level (a)	4/21/2015	4/21/2015
VOLATILES (µg/m^3)			
cis-1,2-Dichloroethene	NA	4.1 U	4.1 U
Trichloroethene	63	5.5 U	5.6 U
Vinyl chloride	28	2.6 U	2.7 U

µg/m^3 = micrograms per cubic meter
NA = Screening level not available
U = Indicates the compound was undetected at the reported concentration.

Notes:

1. Indoor air sample locations are identified by the IA prefix. Ambient air sample locations are identified by the AA prefix.
2. Sub-slab soil vapor sample locations are identified by the SSV prefix.

a. Soil gas screening level protective of Modified MTCA Method B air screening levels was selected. The lower (i.e., more restrictive) value of carcinogenic and non-carcinogenic is shown.

Table 10-11
Commercial: Los Cabos Air Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Indoor and Ambient Air	**Sample Location:**	AA036	IA085	IA086
Analyte	**Screening Level**	6/8/2016	6/8/2016	6/8/2016
VOLATILES (µg/m^3)				
Vinyl Chloride	0.85	0.39 U	0.40 U	0.41 U

Sub-Slab Soil Vapor	**Sample Location:**	SSV074	SSV075
Analyte	**Screening Level**	6/9/2016	6/9/2016
VOLATILES (µg/m^3)			
Trichloroethene	63	6.4 U	6.3 U
Vinyl Chloride	28	3.0 U	3.0 U

-- = no screening level available
AA = ambient air
ASTM = ASTM International
Bold = detected compound
EPA = U.S. Environmental Protection Agency
IA = indoor air
µg/m^3 = micrograms per cubic meter
SSV = sub-slab soil vapor
U = Indicates the compound was not detected at the reported concentration.

Table 10-12
Residential Air Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Residence ID Number	Residence ID Number	Sample Type	Location Description	Sample Location	Sample Date (b)	TCE (µg/m^3)	cDCE (µg/m^3)	tDCE (µg/m^3)	VC (µg/m^3)	Radiello TCE (µg/m^3)
				Indoor Air Screening Level (c)		0.37	--	27	0.28	0.37
				Soil Gas Screening Level (c)		12	--	907	9.5	12
Foundation: Slab-on-Grade										
RES003	1	SSV	1st Floor TV Room	SSV050	8/13/2013	<0.16	<0.12	<0.60	<0.039	--
RES003	1	SSV	1st Floor Master Bedroom	SSV051	8/13/2013	<0.16	<0.12	<0.61	<0.039	--
RES003	1	IA	1st Floor TV Room	IA026	8/14/2013	<0.18	<0.13	<0.65	<0.042	<0.048
RES003	1	IA	1st Floor Master Bedroom	IA027	8/14/2013	<0.17	<0.13	<0.64	<0.041	<0.048
RES003	1	IA	1st Floor Office	IA028	8/14/2013	<0.15	<0.11	<0.57	<0.036	<0.048
RES003	1	AA	Outside	AA012	8/14/2013	<0.17	<0.12	<0.61	<0.040	--
RES006	1	SSV	1st Floor Hallway	SSV057	9/15/2013	<0.42	<0.31	<1.5	<0.099	--
RES006	1	IA	1st Floor TV Room	IA043	9/14/2013	<0.27	<0.20	<1.0	<0.064	--
RES006	1	IA	1st Floor Master Bedroom	IA044	9/14/2013	<0.19	<0.14	<0.69	<0.045	--
RES006	1	AA	Outside	AA018	9/14/2013	<0.20	<0.14	<0.72	<0.047	--
RES014	2	SSV	Garage	SSV063	1/29/2014	<0.16	<0.12	<0.59	<0.038	--
RES014	2	SSV	1st Floor Closet	SSV064	1/29/2014	**0.43**	<0.12	<0.59	<0.038	--
RES014	2	IA	1st Floor Room	IA062	1/27/2014	<0.15	<0.11	<0.56	<0.036	--
RES014	2	AA	Outside	AA026	1/27/2014	<0.20	<0.15	<0.74	<0.048	--
RES021	1	SSV	Garage	SSV054	8/27/2013	<0.16	<0.12	<0.61	<0.039	--
RES021	1	SSV	Garage	SSV055	8/27/2013	<0.82	<0.61	<3.0	<0.20	--
RES021	2	SSV	Garage	SSV066	3/7/2014	<0.16	<0.12	<0.59	<0.038	--
RES021	2	SSV	Garage	SSV067	3/7/2014	<0.16	<0.12	<0.61	<0.039	--
RES023	1	SSV	1st Floor Closet	SSV053	8/21/2013	<0.17	<0.12	<0.62	<0.040	--
RES023	1	IA	1st Floor Bedroom	IA032	8/19/2013	0.0 (d)	<0.32	<1.6	<0.10	--
RES023	1	IA	1st Floor Office/Storage Room	IA033	8/19/2013	0.0 (d)	<0.14	<0.70	<0.045	--
RES023	1	AA	Outside	AA014	8/19/2013	**1.1**	<0.13	<0.66	<0.042	--
RES023	1	AA	Outside	AA022	9/25/2013	<0.16	<0.12	<0.59	<0.038	--
Foundation: Slab-on-Grade and Crawlspace										
RES004	1	SSV	1st Floor Bedroom/TV Room	SSV052	8/13/2013	<0.17	<0.12	<0.63	<0.040	--
RES004	1	CS	Crawlspace	CSA003	8/15/2013	**0.19**	<0.13	<0.66	<0.042	<0.050
RES004	1	IA	1st Floor Bedroom/TV Room	IA029	8/15/2013	<0.18	<0.14	<0.68	<0.044	<0.050
RES004	1	IA	2nd Floor TV Room	IA030	8/15/2013	<0.19	<0.14	<0.72	<0.046	<0.050
RES004	1	IA	3rd Floor Bedroom	IA031	8/15/2013	<0.19	<0.14	<0.69	<0.044	<0.050
RES004	1	AA	Outside	AA013	8/15/2013	<0.18	<0.13	<0.65	<0.042	--
RES004	1	SSV	Garage	SSV059	10/16/2013	<0.15	<0.11	<0.57	<0.036	--
RES004	1	CS	Crawlspace	CSA009	10/15/2013	<0.17	<0.12	<0.61	<0.040	--
RES004	1	IA	1st Floor Bedroom/TV Room	IA047	10/15/2013	<0.18	<0.13	<0.65	<0.042	--
RES004	1	IA	2nd Floor TV Room	IA048	10/15/2013	<0.15	<0.11	<0.54	<0.035	--
RES004	1	IA	3rd Floor Bedroom	IA055	10/15/2013	<0.17	<0.12	<0.62	<0.040	--
RES004	1	AA	Outside	AA020	10/15/2013	<0.17	<0.12	<0.61	<0.040	--
RES004	2	SSV	Garage	SSV068	4/1/2014	<0.17	<0.12	<0.61	<0.040	--
RES004	2	CS	Crawlspace	CSA013	4/2/2014	NR (e)	NR (e)	NR (e)	NR (e)	<0.052
RES004	2	CS	Crawlspace	CSA014	4/10/2014	<0.17	<0.12	<0.62	<0.040	--
RES004	2	IA	1st Floor Bedroom/TV Room	IA072	4/2/2014	<0.17	<0.12	<0.63	<0.040	<0.052
RES004	2	IA	2nd Floor TV Room	IA073	4/2/2014	<0.18	<0.13	<0.65	<0.042	<0.052
RES004	2	IA	3rd Floor Bedroom	IA074	4/2/2014	<0.18	<0.14	<0.68	<0.044	<0.052
RES004	2	AA	Outside	AA031	4/2/2014	<0.17	<0.13	<0.64	<0.041	--
RES004	2	AA	Outside	AA032	4/10/2014	<0.16	<0.12	<0.60	<0.039	--
RES012	1	SSV	Garage	SSV058	9/24/2013	<0.34	<0.25	<1.2	<0.081	--
RES012	1	CS	Crawlspace	CSA007	9/25/2013	<0.16	<0.12	<0.59	<0.038	**0.055**

Table 10-12
Residential Air Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Residence ID Number	Residence ID Number	Sample Type	Location Description	Sample Location	Sample Date (b)	TCE (µg/m^3)	cDCE (µg/m^3)	tDCE (µg/m^3)	VC (µg/m^3)	Radiello TCE (µg/m^3)
				Indoor Air Screening Level (c)		0.37	--	27	0.28	0.37
				Soil Gas Screening Level (c)		12	--	907	9.5	12
RES012	1	IA	1st Floor TV Room	IA046	9/25/2013	<0.16	<0.12	<0.58	<0.038	**0.18**
RES012	1	AA	Outside	AA019	9/25/2013	<0.16	<0.12	<0.59	<0.038	--
RES012	2	SSV	Garage	SSV065	2/25/2014	<0.17	<0.13	<0.63	<0.041	--
RES012	2	CS	Crawlspace	CSA011	2/26/2014	<0.16	<0.12	<0.58	<0.038	<0.052
RES012	2	IA	1st Floor TV Room	IA069	2/26/2014	**0.32**	<0.14	<0.69	<0.044	**0.17**
RES012	2	AA	Outside	AA029	2/26/2014	<0.17	<0.13	<0.63	<0.041	--
RES018	1	SSV	Garage	SSV056	8/30/2013	<1.6	<1.2	<5.9	<0.38	--
RES018	1	CS	Crawlspace	CSA005	8/28/2013	<0.16	<0.12	<0.61	<0.039	--
RES018	1	IA	1st Floor Master Bedroom	IA036	8/28/2013	<0.19	<0.14	<0.70	<0.045	--
RES018	1	IA	1st Floor Bedroom	IA037	8/28/2013	<0.18	<0.13	<0.66	<0.043	--
RES018	1	IA	1st Floor TV Room/Dining Room	IA038	8/28/2013	<0.19	<0.14	<0.71	<0.046	--
RES018	1	AA	Outside	AA016	8/28/2013	<0.17	<0.12	<0.61	<0.040	--
Foundation: Crawlspace										
RES005	1	CS	Crawlspace	CSA002	8/5/2013	<0.20	<0.14	<0.72	<0.047	<0.048
RES005	1	IA	1st Floor TV Room	IA023	8/5/2013	<0.18	<0.13	<0.67	<0.043	<0.048
RES005	1	IA	1st Floor Bedroom	IA024	8/5/2013	<0.20	<0.14	<0.72	<0.043	<0.048
RES005	1	IA	2nd Floor Master Bedroom	IA025	8/5/2013	<0.19	<0.14	<0.69	<0.045	<0.048
RES005	1	AA	Outside	AA011	8/5/2013	<0.19	<0.14	<0.71	<0.046	--
RES009	1	CS	Crawlspace	CSA008	9/25/2013	<0.17	<0.13	<0.63	<0.041	<0.052
RES009	1	IA	1st Floor TV Room	IA049	9/25/2013	<0.17	<0.12	<0.62	<0.040	<0.052
RES009	1	IA	1st Floor Bedroom	IA050	9/25/2013	<0.19	<0.14	<0.70	<0.045	<0.052
RES009	1	IA	1st Floor Bedroom	IA051	9/25/2013	<0.17	<0.13	<0.64	<0.041	<0.052
RES009	1	AA	Outside	AA021	9/25/2013	<0.17	<0.12	<0.62	<0.040	--
RES011	1	CS	Crawlspace	CSA001	7/29/2013	<0.18	<0.13	<0.67	<0.043	--
RES011	1	IA	Garage Sump	IA017	7/29/2013	<0.18	<0.13	<0.67	<0.043	--
RES011	1	IA	1st Floor Master Bedroom	IA018	7/31/2013	<0.16	<0.12	<0.59	<0.038	--
RES011	1	IA	1st Floor TV Room	IA019	7/31/2013	**0.30**	<0.15	<0.77	<0.050	--
RES011	1	AA	Outside	AA008	7/29/2013	<0.16	<0.12	<0.61	<0.039	--
RES011	1	AA	Outside	AA010	7/31/2013	<0.17	<0.13	<0.63	<0.041	--
RES011	2	CS	Crawlspace	CSA010	2/3/2014	<0.14	<0.10	<0.53	<0.034	--
RES011	2	IA	Garage Sump	IA063	2/3/2014	<0.15	<0.11	<0.57	<0.036	--
RES011	2	IA	1st Floor Master Bedroom	IA064	2/3/2014	<0.17	<0.13	<0.63	<0.041	--
RES011	2	IA	1st Floor TV Room	IA065	2/3/2014	<0.18	<0.13	<0.66	<0.042	--
RES011	2	AA	Outside	AA027	2/3/2014	<0.15	<0.11	<0.55	<0.036	--
RES015	1	CS	Crawlspace	CSA006	9/11/2013	<0.17	<0.12	<0.63	<0.040	--
RES015	1	IA	1st Floor TV Room	IA039	9/11/2013	<0.19	<0.14	<0.70	<0.045	--
RES015	1	IA	1st Floor Bedroom	IA040	9/11/2013	<0.18	<0.14	<0.68	<0.044	--
RES015	1	IA	1st Floor Bedroom	IA041	9/11/2013	<0.17	<0.12	<0.63	<0.040	--
RES015	1	IA	1st Floor Bedroom	IA042	9/11/2013	<0.18	<0.13	<0.65	<0.042	--
RES015	1	AA	Outside	AA017	9/11/2013	<0.14	<0.11	<0.54	<0.034	--
RES016	1	CS	Crawlspace	CSA004	8/22/2013	<0.18	<0.13	<0.66	<0.042	--
RES016	1	IA	1st Floor TV Room	IA034	8/22/2013	<0.18	<0.13	<0.67	<0.043	--
RES016	1	IA	1st Floor Bedroom	IA035	8/22/2013	<0.18	<0.14	<0.68	<0.044	--
RES016	1	AA	Outside	AA015	8/22/2013	<0.21	<0.16	<0.78	<0.050	--
RES016	2	CS	Crawlspace	CSA012	3/25/2014	<0.16	<0.12	<0.59	<0.038	--
RES016	2	IA	1st Floor TV Room	IA070	3/25/2014	<0.17	<0.12	<0.63	<0.040	--
RES016	2	IA	1st Floor Bedroom	IA071	3/25/2014	<0.18	<0.14	<0.68	<0.044	--

Table 10-12
Residential Air Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Residence ID Number	Residence ID Number	Sample Type	Location Description	Sample Location	Sample Date (b)	TCE (µg/m^3)	cDCE (µg/m^3)	tDCE (µg/m^3)	VC (µg/m^3)	Radiello TCE (µg/m^3)
				Indoor Air Screening Level (c)		0.37	--	27	0.28	0.37
				Soil Gas Screening Level (c)		12	--	907	9.5	12
RES016	2	AA	Outside	AA030	3/25/2014	<0.19	<0.14	<0.69	<0.045	--
Foundation: Slab-On-Grade and Basement										
RES010	1	SSV	Basement Storage Room	SSV060	10/17/2013	<0.33	<0.24	<1.2	<0.078	--
RES010	1	BM	Basement	IA052	9/30/2013	<0.17	<0.13	<0.63	<0.041	--
RES010	1	IA	2nd Floor Master Bedroom	IA053	9/30/2013	**1.2 (f)**	<0.12	<0.60	<0.039	--
RES010	1	IA	2nd Floor Bedroom	IA054	9/30/2013	<0.17	<0.13	<0.63	<0.041	--
RES010	1	AA	Outside	AA023	9/30/2013	<0.18	<0.13	<0.65	<0.042	--
RES010	1	SSV	Basement Storage Room	SSV061	10/30/2013	<0.16	<0.12	<0.59	<0.038	--
RES010	1	BM	Basement	IA056	10/29/2013	<0.17	<0.13	<0.63	<0.041	--
RES010	1	BM	Basement	IA057	10/29/2013	<0.16	<0.12	<0.6	<0.039	--
RES010	1	IA	2nd Floor Master Bedroom	IA058	10/29/2013	<0.18	<0.13	<0.65	<0.042	--
RES010	1	IA	2nd Floor Bedroom	IA059	10/29/2013	<0.19	<0.14	<0.71	<0.046	--
RES010	1	AA	Outside	AA024	10/29/2013	<0.15	<0.11	<0.56	<0.036	--
RES019	1	IA	Basement Bedroom	IA020	7/31/2013	<0.18	<0.13	<0.67	<0.043	--
RES019	1	IA	Basement Computer Room	IA021	7/31/2013	<0.18	<0.13	<0.65	<0.042	--
RES019	1	IA	Basement Sewer Pipe Access	IA022	7/31/2013	<0.18	<0.13	<0.66	<0.042	--
RES019	1	AA	Outside	AA009	7/31/2013	<0.18	<0.13	<0.65	<0.042	--
RES019	2	IA	Basement Bedroom	IA068	2/20/2014	0.17 J (g)	<0.13	<0.64	<0.041	--
RES019	2	IA	Basement Computer Room	IA066	2/20/2014	<0.18	<0.14	<0.68	<0.044	--
RES019	2	IA	Basement Sewer Pipe Access	IA067	2/20/2014	<0.17	<0.13	<0.63	<0.041	--
RES019	2	AA	Outside	AA028	2/20/2014	<0.15	<0.11	<0.57	<0.036	--

-- = Not applicable.
AA = ambient air
BM = basement
cDCE = cis-1,2-dichloroethene
CS = crawlspace
IA = indoor air
µg/m3 = micrograms per cubic meter
NR = not reported
SSV = sub-slab vapor
TCE = trichloroethene
tDCE = trans-1,2-dichloroethene
VC = vinyl chloride
J = the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample

Notes:

1. **Bold** text indicates detected analyte.
2. Green shading indicates exceedance of screening level.

a. Phase I (summer sampling) of the residential vapor intrusion (VI) assessment began in summer 2013 and concluded in early fall of 2013. Phase II (winter sampling) of the residential VI assessment began in the first quarter of 2014 and concluded in early spring of 2014.
b. Sample Date is the date samples were set up. The Summa canister sample period is 24 hours long, the Radiello sample period is 21 days long, and the sub-slab vapor sample period is approximately 30 minutes long.
c. The MTCA Method B air cleanup level and soil gas screening level protective of MTCA Method B Air cleanup levels were selected. The lower (i.e., more restrictive) value of carcinogenic and non-carcinogenic are shown.
d. If a constituent is detected in ambient air, the contribution of VI to indoor air concentrations is determined by subtracting the ambient air from the indoor air concentration(s). If the constituent is detected in ambient air at a higher concentration than in indoor air, the corrected value is a negative number and, therefore, is adjusted to zero. Detected concentrations of TCE in ambient air at RES023 was greater than all indoor air samples collected at RES023.
e. The Summa canister that collected this sample malfunctioned. With approval from Ecology, the sample was recollected.
f. TCE detection indoor air at RES010 was from a sample collected from the 2nd floor master bedroom; however, samples collected from the basement directly below were non-detect; therefore, the TCE detected was from a background source inside the home.
g. This concentration was marked as an estimate by the laboratory. The estimated concentration is at or below the typical reporting limit and, therefore, is treated as a non-detect.

Table 10-13
Residential: Chicago Avenue Ditch Over-Water Air Results
Boeing Auburn Remedial Investigation
Auburn, Washington

Analyte	Sample Location: / Screening Level (a)	AA-CD4 8/11/2014	OWA-CD4 8/11/2014	AA-CD4 8/26/2014	OWA-CD4 8/26/2014	AA-CD4 8/27/2014	OWA-CD4 8/27/2014
VOLATILES (µg/m^3)							
Trichloroethene	0.37	0.17 U	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U
Vinyl Chloride	0.28	0.041 U	0.043 U	0.040 U	0.040 U	0.041 U	0.041 U

µg/m^3 = micrograms per cubic meter

U = the compound was undetected at the reported concentration

Note:

1. Over-water air sample locations are identified by the OWA prefix. Ambient air sample locations are identified by the AA prefix.

a. The Model Toxics Control Act Method B air cleanup level was selected. The lower (i.e., more restrictive) value of carcinogenic and non-carcinogenic is shown.

Table 11-1
Summary of Recommendations for SWMUs and AOCs to be Addressed in the Feasibility Study
Boeing Auburn Remedial Investigation
Auburn, Washington

SWMU/AOC	Building	Description	Primary Constituents of Concern	SWMU/AOC to be addressed in Feasibility Study?	Comments
SWMU					
S-06	17-15	Rinsewater Treatment Plant (Wastewater Pre-treatment Plant)	VOCs	No	Evidence of a number of small releases, but these do not appear to have caused significant soil or groundwater contamination. VOC concentrations in groundwater will be addressed as part of the Site-wide VOC impacts.
S-11	17-45	Aqueous Degreasers; Formerly Vapor Degreasers	VOCs	No	There is no evidence of a release associated with these degreasers.
S-12a	17-03	Former Vapor Degreaser; Former Metal Fabrication and Finishing	VOCs	No	Letter of determination for NFA received as part of the Area 1 RI.
S-12b	17-05	Former Vapor Degreaser (VD-01); Process Assembly, Metal Bonds, and Composite Parts	VOCs	No	IRA completed in 2004 to 2005; TCE concentrations are now non-detect. Remaining VOC concentrations in groundwater will be addressed as part of the Site-wide VOC impacts.
S-12c	17-05	Former Vapor Degreaser (VD-02); Process Assembly, Metal Bonds, and Composite Parts	VOCs	No	Letter of determination for NFA received as part of the Area 1 RI.
S-12d	17-12	Former Vapor Degreaser; Former Metal Fabrication and Finishing	VOCs	No	There is no evidence of a release from this former degreaser.
S-12f	17-68	Former Vapor Degreaser	TCE	No	There is no evidence of a release from this former degreaser.
S-13a/b	17-07	Fomer Vapor Degreasers; Machine Fabrication	VOCs	No	Threre is no evidence of a release from the TCA degreaser (S-13b). There was likely a release from the former TCE degreaser (S-13a); however, the release/releases were not extensive and groundwater flux has depleted much of the mass from the source area. VOC concentrations in groundwater will be addressed as part of the Site-wide VOC impacts.
S-15a/S-16	17-06	Machine Sump (SAU06-12)/ Active Aluminum Chip Briquetter and Chip Conveyance System	TPH	**Yes**	Petroleum hydrocarbon contamination (DRO and ORO) associated with the briquetter exceeds screening levels. Low levels of VOCs in groundwater will be addressed as part of the Site-wide VOC impacts.
S-15b	17-07	Machine Sumps SAU07-024,-025,-028,-029	TPH	No	There is no evidence of a release from these machine sumps in Building 17-07.
S-15c	17-34	Chip Shed Sumps (SAU34-001 through -004)	TPH	No	There is no evidence of a release from these chip shed sumps.
S-15d	17-52	Machine Sump (SAU52-001)	TPH, Metals	No	Letter of determination for NFA received as part of transfer of the south Site to Safeway.
S-17	17-29	Titanium Chip Bailer (Shed and Sump)	TPH	No	There is no evidence of a TPH release at this SWMU. The low levels of VOCs at this area will be addressed as part of the Site-wide VOC impacts.
S-18	17-35	Miscellaneous Sumps at Chip Shed	TPH	No	There is no evidence of a release at this SWMU. Low levels of VOCs will be addressed as part of the Site-wide VOC impacts.
S-19	17-05	Former Waste Oil Tank (TAU-22); Process Assembly, Metal Bonds, and Composite Parts	TPH	No	Letter of determination for NFA received as part of the Area 1 RI.
S-30	17-10	Former Debris Pile and Burn Pit	TPH, VOCs, Metals	No	Low level concentrations of TCE and VC north and downgradient of this SWMU do not indicate a significant release from this SWMU. The low levels of VOCs at this area will be addressed as part of the Site-wide VOC impacts.
AOC					
A-01	17-06	Former USTs (TAU-01 and TAU-02)	TPH, BTEX	**Yes**	Petroleum hydrocarbon related constituents (DRO, GRO, BTEX) are above screening levels. The low levels of VOCs at this area will be addressed as part of the Site-wide VOC impacts.
A-02a	17-03	Former USTs (TAU-7 and TAU-8)	TPH	No	Letter of determination for NFA received as part of the Area 1 RI.

Table 11-1
Summary of Recommendations for SWMUs and AOCs to be Addressed in the Feasibility Study
Boeing Auburn Remedial Investigation
Auburn, Washington

SWMU/AOC	Building	Description	Primary Constituents of Concern	SWMU/AOC to be addressed in Feasibility Study?	Comments
A-02b	17-06	Former UST (TAU-23) Jet Fuel Product Storage	TPH	No	There is no evidence of a release from this former UST.
A-02c	17-08	Former UST (TAU-16) Diesel Product Storage	TPH	No	There is no evidence of a release from this former UST.
A-02d	17-10	Former UST (TAU-6) Diesel Product Storage Tank	TPH	No	There is no evidence of a release from this former UST.
A-03	17-35	Former Unregistered Waste Oil Tanks	TPH	No	There is no evidence of a release from these former waste oil tanks. The low level detections of VC will be addressed as part of the Site-wide VOC impacts.
A-04	17-29	Former Underground Titanium Chip Bailer Tank; PS300, cutting oil, and solvents	TPH	No	There is no evidence of a release from this sump.
A-05	17-64	Unleaded Gasoline UST (TAU-32); Transportation Building Fuel Island	TPH	No	There is no evidence of a release from this former UST.
A-06	17-66	Excavations for the expansion of 17-66	TPH, VOCs, Metals	No	There is evidence of a minor release of TCE and related constituents to groundwater in this area. However, current concentrations are below screening levels. Impacts from releases were minor and have been largely addressed through soil removal and natural attenuation.
A-07	17-08	Former MEK UST (TAU-18)	MEK/2-butanone	No	There is no evidence of a release from this former UST. Low level detections of TCE will addressed as part of the Site-wide VOC impacts.
A-08	17-05	Former Metalbond Tank Line; Process Assembly, Metal Bonds, and Composite Parts	VOCs	No	IRA completed in 2004 to 2005; TCE concentrations are now non-detect. Remaining VOC concentrations in groundwater will be addressed as part of the Site-wide VOC impacts.
A-09	17-07	Acid Scrubber Drain Line Leak; Machine Fabrication	Metals, Cyanide	**Yes**	Metals contamination was left in place in soil above screening levels and has resulted in metals contaminated groundwater.
A-10	17-10	G&L Post Mill; Tooling/Tool Fabrication	TPH, VOCs	No	Minor historical exceedence of petroleum hydrocarbon (ORO) screening levels occured at well AGW038. Low level detections of VOCs will be addressed as part of the Site-wide VOC impacts.
A-12	17-09	Fuel Oil Spill; southwest of Building 17-09	TPH	No	There is no evidence of a significant release associated with this fuel oil spill.
A-13	Site-wide	Site-wide TCE and VC concentrations in groundwater	TCE, VC	**Yes**	Groundwater exceedences of screening levels for TCE and VC.

AOC = area of concern
BTEX = benzene, toluene, ethylbenzene, and xylenes
DRO = diesel-range organics
GRO = gasoline-range organics
IRA = interim remedial action
MEK = methyl ethyl ketone
NFA = No Further Action
ORO = oil-range organics
RI = remedial investigation
SWMU = solid waste management unit
TCA = trichloroethane
TCE = trichloroethene
TPH = total petroleum hydrocarbons
UST = underground storage tank
VC = vinyl chloride
VOC = volatile organic compounds

Notes:
1. TPH stands for petroleum hydrocarbons (can include DRO, ORO, or GRO).
2. MEK is the same as 2-Butanone.
3. Green highlighting indicates Category 3 SWMUs or AOCs that will be carried forward to the FS.