May 6, 2015

Washington State Department of Ecology
3190 160th Avenue SE
Bellevue, Washington 98008

Attn: Robin Harrover

RE: 2015 GROUNDWATER INVESTIGATION DATA SUBMITTAL

Dear Ms Harrover:

The Boeing Company (Boeing) completed additional groundwater investigation activities to the west and north of the Boeing Auburn Facility as described in the Supplemental Remedial Investigation Work Plan Winter 2015, dated March 12, 2015 (Work Plan; Landau Associates 2015). The drilling, installation, and development of nine new monitoring wells (AGW260 through AGW268) in Algona and Auburn, Washington was completed between on March 23 and April 3, 2015. Initial sampling of the new wells took place on April 9, 2015. The new monitoring well locations are shown along with the current monitoring well network on Figure 1. The initial new well sample results are provided on Table 1. Laboratory data packages for all analytical results are included on a DVD. A draft report summarizing the findings of the investigation will be submitted to Washington State Department of Ecology (Ecology) for review in accordance with the schedule outlined in the Work Plan. If you have any questions about the information contained in this letter, please contact Jennifer Wynkoop at (253) 284-4879 or Jim Bet at (206) 679-0433.

LANDAU ASSOCIATES, INC.

Sarah Fees
Project Hydrogeologist

Jennifer Wynkoop
Senior Associate

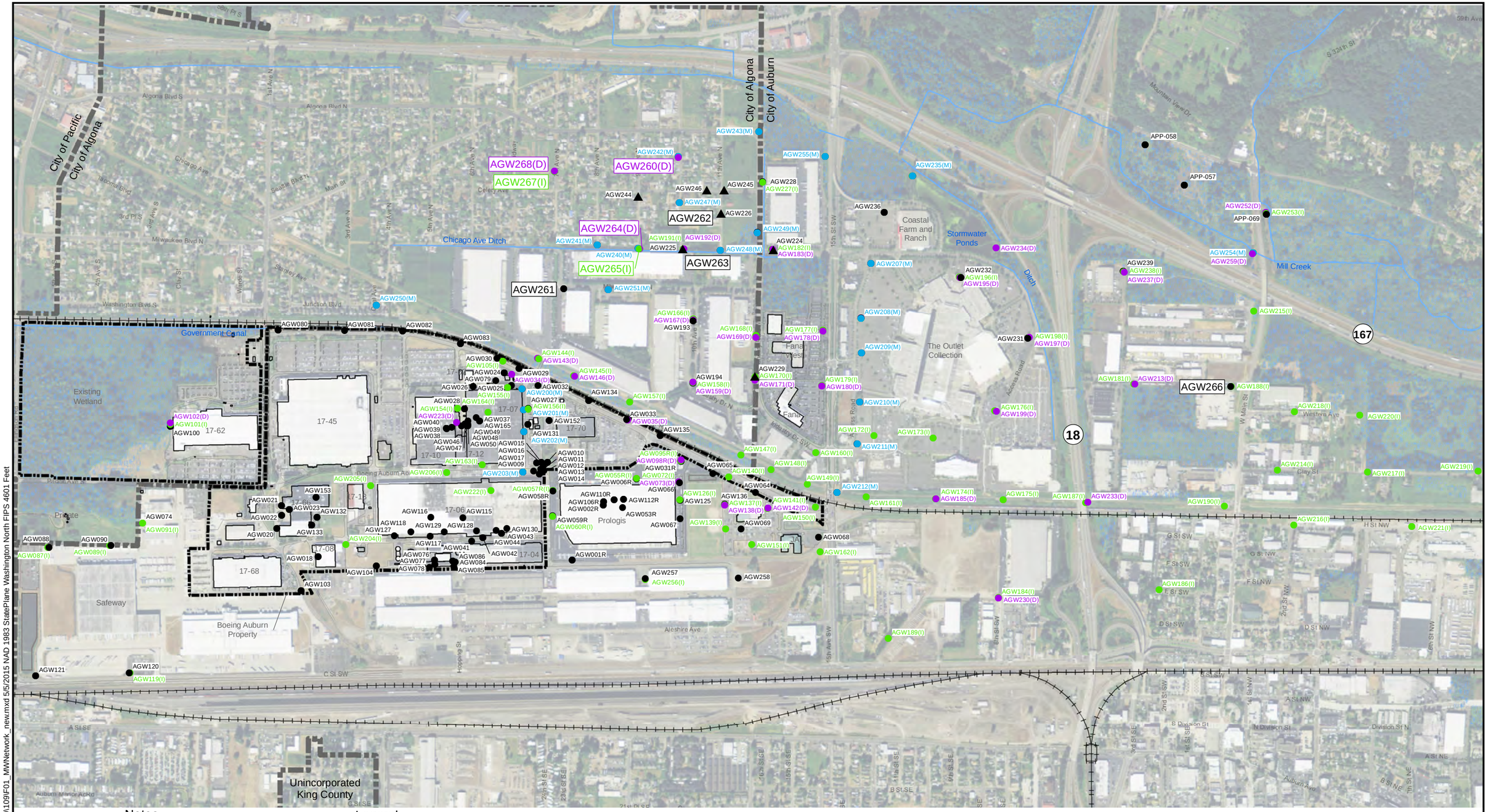
SEF/JWW/jrc

REFERENCE

Landau Associates. 2015. Report: *Supplemental Remedial Investigation Work Plan, Winter 2015, Boeing Auburn Facility, Auburn, Washington*. Prepared for The Boeing Company. March 12.

Attachments: Figure 1: New Well Locations and Current Monitoring Well Network
Table 1: New Well Sample Results- April 2015
Laboratory Data Packages (provided on DVD)

cc: Jim Bet, The Boeing Company (email only)
Jim Swortz, The Boeing Company
Neal Hines, Washington State Department of Ecology (email only)



Notes

1. Well designations beginning with APP are installed and owned by WSDOT.
2. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- ▲ Offsite Water Table Well
- ● Shallow Monitoring Well (2 to 30 ft BGS)
- (I) ● Intermediate Monitoring Well (40 to 60 ft BGS)
- (D) ● Deep Monitoring Well (80 to 100 ft BGS)
- (M) ● Multi-Level Well
- Wetland Areas
- Water Bodies
- Waterways

N

0 1,000 2,000

Scale in Feet

Base map source: Geometrix 2003; Aerial Photo Source: ESRI World Imagery; Parcel Data Source: King County GIS 2012

LANDAU ASSOCIATES

Boeing Auburn
Auburn, Washington

New Well Locations and Current Monitoring Well Network

Figure 1

G:\Projects\025\164\120\109\F01_MWNetwork_new.mxd 5/5/2015 NAD 1983 StatePlane Washington North FIPS 4601 Feet

TABLE 1
NEW WELL SAMPLE RESULTS - APRIL 2015
BOEING AUBURN

Sample ID:	AGW260	AGW261	AGW262	Dup of AGW262 AGW900	AGW263	AGW264	AGW265
Zone:	Deep	Shallow	Water Table	Water Table	Water Table	Deep	Int.
SDG:	1552310	1552310	1552310	1552310	1552310	1552310	1552310
Lab ID:	7842328	7842322	7842324	7842323	7842325	7842326	7842327
Sample Date:	4/9/2015	4/9/2015	4/9/2015	4/9/2015	4/9/2015	4/9/2015	4/9/2015
VOLATILES (µg/L)							
Method SW8260C							
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	**76**	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	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	0.2 U	**1.1**	0.2 U	0.2 U	**4.2**	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	**0.3**	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	**2.6**	0.2 U	0.2 U	**0.4**	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
VOLATILES (µg/L)							
Method 8260C SIM							
Tetrachloroethene	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Vinyl Chloride	0.020 U	**0.10**	**0.20**	**0.21**	**0.080**	0.020 U	**0.059**

TABLE 1
NEW WELL SAMPLE RESULTS - APRIL 2015
BOEING AUBURN

Sample ID:	AGW266	AGW267	AGW268
Zone:	Shallow	Deep	Int.
SDG:	1552310	1552310	1552310
Lab ID:	7842321	7842329	7842330
Sample Date:	4/9/2015	4/9/2015	4/9/2015
VOLATILES (µg/L)			
Method SW8260C			
Acetone	5.0 U	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U
2-Butanone	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**0.4**	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U
m,p-Xylene	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U
VOLATILES (µg/L)			
Method 8260C SIM			
Tetrachloroethene	0.020 U	0.020 U	0.020 U
Vinyl Chloride	0.020 U	0.020 U	0.020 U

U = Indicates the compound was undetected at the reported concentration.
Bold = Detected compound.