October 15, 2014

Washington State Department of Ecology
Northwest Regional Office
3190 160th Avenue Southeast
Bellevue, Washington 98008-5452

Attn: Ms. Robin Harrover

RE: STATUS REPORT: NO. 48, JULY THROUGH SEPTEMBER 2014 ACTIVITY PERIOD
BOEING AUBURN FACILITY
WAD 041337130, RCRA CORRECTIVE ACTION AGREED ORDER
NO. 01HWTRNR-3345

Ms. Harrover:

References:

1. July 1, 2014. Email message from Neal Hines, Washington State Department of Ecology, to Jennifer Wynkoop and Sarah Fees, Landau Associates. Re: *Ecology comments for Vapor Intrusion Summary/Outreach doc*. (Attachment: Compiled Ecology comments for the Vapor Intrusion Summary/Outreach document).

2. July 2, 2014. Email message from Lenford O'Garro, Washington State Department of Health, to James Bet, The Boeing Company, and Jennifer Wynkoop, Landau Associates. Re: *Draft Letter Health Consultation for your review*. (Attachment: Copy of the draft letter health consultation report for ditches in Algona for courtesy review).

3. July 3, 2014. Email message from Megan Hilfer, The Boeing Company, to Neal Hines and Thea Levkovitz, Washington State Department of Ecology. Re: *Algona VI website summary*. (Attachment: Website summary for winter vapor intrusion sampling).

4. July 9, 2014. Email message from Thea Levkovitz, Washington State Department of Ecology, to Megan Hilfer, The Boeing Company; Gary Clendenin, ICF International; Dave Hill, City of Algona; Jennifer Wynkoop, Landau Associates. Re: *courtesy review- Ecology Algona Days Fact Sheet*. (Attachment: Text for a fact sheet to be used during Algona Days for review).

5. July 11, 2014. Email message from Robin Harrover, Washington State Department of Ecology, to James Bet, The Boeing Company. Re: *Ecology-requested additional well locations for Fall 2014 RI Work Plan*. (Attachment: Figure of requested drilling locations).

6. July 11, 2014. Email message from Jennifer Wynkoop, Landau Associates, to Thea Levkovitz, Washington State Department of Ecology. Re: *courtesy review – Ecology Algona Days Fact sheet*. (Attachment: Landau Associates comments on the Ecology fact sheet).

7. July 18, 2014. Email message from Jennifer Wynkoop, Landau Associates, to Neal Hines and Robin Harrover, Washington State Department of Ecology. Re: *Outreach Summary Rpt*. (Attachment: Additional edits for the vapor intrusion summary outreach report).

8. July 18, 2014. Email message from James Bet, The Boeing Company, to Lenford O'Garro, Washington State Department of Health; and Jennifer Wynkoop, Landau Associates. Re: *Draft Letter Health Consultation for your review*. (Attachment: Compiled comments from Boeing on the Algona ditch letter health consultation).

9. July 23, 2014. Email message from Neal Hines, Washington State Department of Ecology, to James Bet, Steven Tochko, Megan Hilfer, and Kamara Sams, The Boeing Company; and Jennifer Wynkoop, Landau Associates. Re: *Boeing Auburn Fabrication Site Investigation and Clean up update*. (Attachments: Ecology presentation that was given at the Auburn City Council meeting on June 30th and Ecology responses to questions raised at the June 30 City Council meeting).

10. July 25, 2014. Email message from Neal Hines, Washington State Department of Ecology, to Jennifer Wynkoop, Landau Associates. Re: *Outreach Summary Rpt.*

11. July 29, 2014. Draft report: *Ecology Review Draft Work Plan, Over-water Air Quality Sampling, Chicago Avenue Ditch, Auburn Fabrication Division facility, Auburn, Washington*.

12. July 29, 2014. Letter: *Status Report: No. 47, April Through June 2014 Activity Period, Boeing Auburn Facility, WAD 041337130, RCRA Corrective Action Agreed Order No. 01HWTRNR-3345*. From Jennifer Wynkoop, Landau Associates, to Robin Harrover, Washington State Department of Ecology.

13. July 29, 2014. Email message from Thea Levkovitz, Washington State Department of Ecology, to Megan Hilfer, The Boeing Company, and Jennifer Wynkoop, Landau Associates. Re: *Algona VI Website Summary_winter_NAH.docx*. (Attachment: Ecology comments on the Algona vapor intrusion website summary.)

14. July 29, 2014. Email message from Erin Govednik, Washington State Department of Health, to James Bet, The Boeing Company, and Jennifer Wynkoop, Landau Associates. Re: *Draft Summary of Letter Health Consult for review.* (Attachment: Draft summary for the surface water letter health consultation).

15. July 30, 2014. Letter: *Groundwater Monitoring Results: March and May 2014, Boeing Wells on Fana Auburn 234, LLC Property, Auburn, Washington.* From Jennifer Wynkoop, Landau Associates, to John Powers, Fana Group of Companies.

16. July 30, 2014. Letter: *Groundwater Monitoring Results: March and May 2014, Boeing Wells on Fana Auburn LLC Property, Auburn, Washington.* From Jennifer Wynkoop, Landau Associates, to John Powers, Fana Group of Companies.

17. July 30, 2014. Letter: *Groundwater Monitoring Results: June 2014, Sentry Wells, Pacific, Washington.* From Jennifer Wynkoop, Landau Associates, to Ken Barnett, Interim Public Works Director, City of Pacific.

18. July 30, 2014. Letter: *Groundwater Monitoring Results: March and May 2014, Coastal Farm and Ranch Well, Auburn, Washington*. From Jennifer Wynkoop, Landau Associates, to Byron Baule, Operations Manager, Coastal Farm and Ranch. (Email only).

19. July 30, 2014. Letter*: Groundwater Monitoring Results: March, May, and June 2014, Glimcher Wells, Auburn, Washington.* From Jennifer Wynkoop, Landau Associates, to Greg Fleser, General Manager, Glimcher.

20. July 30, 2014. Letter: *Groundwater Monitoring Results: March and May 2014, City of Auburn Wells, Auburn Washington.* From Jennifer Wynkoop, Landau Associates, to Chris Thorn, Water Quality Program Coordinator, City of Auburn.

21. July 30, 2014. Letter: *Monitoring Results: February, March and May 2014, City of Algona Wells and Chicago Avenue Ditch Sampling, Algona, Washington*. From Jennifer Wynkoop, Landau Associates, to David Hill, Mayor, City of Algona.

22. July 30, 2014. Letter: *Groundwater Monitoring Results: March and May, 2014, Auburn School District Warehouse Property Wells, Auburn, Washington*. From Jennifer Wynkoop, Landau Associates, to Michael Newman, Deputy Superintendent, Business and Operations, Auburn School District.

23. July 30, 2014. Letter: *Groundwater Monitoring Results: March, May, and June 2014, Boeing Wells Along the Interurban Trail, Auburn and Algona, Washington*. From Jennifer Wynkoop, Landau Associates, to Kurt Krebs, Puget Sound Energy.

24. July 30, 2014. Report: *Phase II Vapor Intrusion Summary (Winter-Spring 2014), Algona, Washington*. Prepared for The Boeing Company.

25. July 30, 2014. Email message from Neal Hines, Washington State Department of Ecology, to Jennifer Wynkoop, Landau Associates. Re: *Chicago Ave. ditch air space sampling*.

26. July 31, 2014. Draft Technical Memorandum: *Algona Neighborhood Yard Sampling Investigation, Boeing Auburn Facility, Auburn, Washington*. From Sarah Fees and Jennifer Wynkoop, Landau Associates, to Jim Bet, The Boeing Company.

27. August 5, 2014. Email message from James Bet, The Boeing Company, to Erin Govednik, Washington State Department of Health. Re: *Draft Summary of Letter Health Consult for review*. (Attachment: Boeing and Landau comments of the draft summary for the surface water letter health consultation).

28. August 5, 2014. Letter: *Additional Algona Groundwater Investigation Data Submittal*. From Sarah Fees and Jennifer Wynkoop, Landau Associates, to Robin Harrover, Washington State Department of Ecology.

29. August 6, 2014. Draft Technical Memorandum: *Phase VI Interim Groundwater Monitoring Program, Boeing Auburn, Auburn, Washington*. From Sarah Fees and Jennifer Wynkoop, Landau Associates, to Robin Harrover and Neal Hines, Washington State Department of Ecology.

30. August 14, 2014. Draft Report: *Draft Algona Residential Vapor Intrusion Assessment Summary Report, Boeing Auburn Facility, Auburn, Washington*. Prepared for The Boeing Company.

31. August 14, 2014. Letter: *Ecology Comment and Approval of the Work Plan Over-water Air Quality Sampling Chicago Avenue Ditch: by Landau Associates Inc. for the Boeing Company, July 29th, 2014; FS #2018; CS #5049; EPA #WAD041337130*. From Neal Hines, Washington State Department of Ecology, to James Bet, The Boeing Company.

32. August 14, 2014. Email message from Jennifer Wynkoop, Landau Associates, to Neal Hines, Washington State Department of Ecology. Re: *Residential Algona Screening levels*. (Attachment: Summary of the calculations for revised residential groundwater screening levels protective of indoor air.)

33. August 15, 2014. Letter Health Consultation: *Boeing Commercial Airplane Fabrication Division, Auburn Plant Exposures to Surface Water Seasonal Sampling 2013, Algona, King County, Washington*. Prepared by The Washington State Department of Health Under a Cooperative Agreement with the Agency for Toxic Substances and Disease Registry. (Received August 27).

34. August 20, 2014. Report: *Work Plan, Over-water Air Quality Sampling, Chicago Avenue Ditch, Auburn Fabrication Division Facility, Auburn, Washington*. Prepared for The Boeing Company.

35. August 21, 2014. Project team meeting attended by representatives from the Washington State Department of Ecology, Landau Associates, The Boeing Company, and ICF International. Washington State Department of Ecology Northwest Regional Office, Bellevue, Washington. Re: *Boeing Auburn Numerical Groundwater Model Presentation*. (PDF of Microsoft PowerPoint presentation emailed separately for distribution, title: Boeing-Auburn Numerical Groundwater Model with MODFLOW-NWT.)

36. August 21, 2014. Draft Report: *Draft Work Plan Supplemental Auburn Groundwater Investigation, Fall 2014 Boeing Auburn, Auburn, Washington*. Prepared for The Boeing Company.

37. August 29, 2014. Email message from Neal Hines, Washington State Department of Ecology, to Chip Halbert, Landau Associates. RE: *GW screening levels for VC, TCE w.r.t air CULs*.

38. September 2, 2014. Email message from Jennifer Wynkoop, Landau Associates, to Robin Harrover, Washington State Department of Ecology. Re: *Helpful to also have completed Table 1*. (Attachment: Proposed Phase VI groundwater sampling matrix.)

39. September 5, 2014. Email message from Robin Harrover, Washington State Department of Ecology, to James Bet, The Boeing Company. Re: *Groundwater Monitoring Well continuing quarterly sampling, Boeing Auburn*. (Attachment: Table of the wells for which Ecology is requesting continued quarterly monitoring.)

40. September 15, 2014. Email message from Thea Levkovitz, Washington State Department of Ecology; to Dana Hinman and Chris Anderson, City of Auburn; Megan Hilfer and James Bet, The Boeing Company; Jennifer Wynkoop, Landau Associates; and Heather Trim and Jeanette

Ordonez, APAC. Re: *Residential Leaflet for your courtesy review*. (Attachment: Draft leaflet for delivery to the residential area of Auburn).

41. September 16, 2014. Project team meeting attended by representatives from the Washington State Department of Ecology, Landau Associates, The Boeing Company, ICF International, The City of Algona, and Futurewise. Washington State Department of Ecology Northwest Regional Office, Bellevue, Washington. Re: *Algona well results and additional well locations*.

42. September 18, 2014. Agency Review Draft Technical Memorandum: *Private Well Survey*. From Sarah Fees and Eric Weber, to James Bet, The Boeing Company.

43. September 19, 2014. Technical Memorandum: *March 2014 Utility Tunnel Groundwater Intrusion Investigation and Analytical Results, Boeing Auburn Facility, Auburn, Washington*. From Jennifer Wynkoop to Jim Bet, The Boeing Company.

44. September 22, 2014. Letter: *Ecology Comment and Approval of the Technical Memo Algona Neighborhood Yard Sampling Investigation; by Landau Associates Inc. for the Boeing Company, July 31, 2014; FS #2018; CS #5049; EPA #WAD041337130*. From Neal Hines, Washington State Department of Ecology, to James Bet, The Boeing Company.

45. September 23, 2014. Email from Thea Levkovitz, Washington State Department of Ecology, to Jennifer Wynkoop, Landau Associates; Neal Hines and Robin Harrover, Washington State Department of Ecology; and James Bet and Megan Hilfer, The Boeing Company. Re: *questions from Algona community*. (Attachment: List of questions that APAC generated from their conversations in Algona).

46. September 23, 2014. Transmittal: *Boeing Auburn Facility – June and July 2014 Groundwater Concentration and Elevation Contour Figures*. From Jennifer Wynkoop, Landau Associates, to Robin Harrover and Neal Hines, Washington State Department of Ecology.

47. September 24, 2014. Email message from Neal Hines, Washington State Department of Ecology to Jennifer Wynkoop, Landau Associates, and Jim Bet, The Boeing Company. Re: *Map of 3 locations in Algona*. (Attachment: map of the City of Algona's recommended locations for three new wells in Algona).

48. September 25, 2014. Technical Memorandum: *Algona Neighborhood Yard Sampling Investigation, Boeing Auburn Facility, Auburn Washington*. From Sarah Fees and Jennifer Wynkoop, Landau Associates to Jim Bet, The Boeing Company.

49. September 25, 2014. Letter: *Ecology Comment and Approval of the Report: Algona Residential Vapor Intrusion Assessment Summary Report; by Landau Associates Inc. for the Boeing Company, August 14, 2014; FS #2018; CS #5049; EPA #WAD041337130*. From Neal Hines, Washington State Department of Ecology, to James Bet, The Boeing Company.

50. September 30, 2014. Report: *Algona Residential Vapor Intrusion Assessment Summary Report, Boeing Auburn Facility, Auburn, Washington*. Prepared for The Boeing Company.

The Auburn Agreed Order became effective on August 14, 2002. As required under Section VI.12 of the Auburn Agreed Order, The Boeing Company (Boeing) is providing Status Report No. 48, which covers the 3-month activity period of July through September 2014.

WORK CONDUCTED

General Site-wide Corrective Action Activities

On July 29, 2014, Landau Associates submitted Status Report No. 47 regarding second quarter 2014 activities to Washington State Department of Ecology (Ecology) and other stakeholders[1] for their records (Reference #12).

As part of various offsite monitoring well access agreements and right-of-way (ROW) permits, Boeing has agreed to provide semiannual groundwater data submittals. The following semiannual groundwater data submittals were distributed during third quarter 2014:

- AGW179(I) and AGW180(D) data from the March and May 2014 sampling events to Fana Auburn 234, LLC (Reference #15)
- AGW177(I) and AGW178(D) data from the March and May 2014 sampling events to Fana Auburn, LLC (Reference #16)
- Sentry well data from the June 2014 sampling event to the City of Pacific (Reference #17)
- AGW236 data from the March and May 2014 sampling events to Coastal Farm and Ranch (Reference #18)
- Data for 17 wells located on The Outlet Collection property from the March, May, and June 2014 sampling events to Glimcher (Reference #19)
- Data for 21 wells located on City of Auburn ROW from March and May 2014 sampling events to the City of Auburn (Reference #20)
- Data for 15 wells located on City of Algona ROW from the March and May 2014 sampling events and the February and May 2014 surface water sample results from the Chicago Avenue ditch to the City of Algona (Reference #21)
- Data for AGW237(D), AGW238(I), and AGW239(S) located on the Auburn School District warehouse property from the March and May 2014 sampling events to the Auburn School District (Reference #22)
- Data for 16 wells located on the Interurban Trail from the March, May, and June 2014 sampling events to Puget Sound Energy (PSE; Reference #23).

Boeing presented the draft site-wide numerical groundwater model to Ecology on August 21, 2014 (Reference #35). Boeing is continuing calibration and finalization of the site-wide numerical groundwater model. Boeing is preparing a numerical model report and plans to submit this to Ecology in the first quarter 2015.

[1] A list of stakeholders that receive paper copies of quarterly status reports are listed at the end of this document. Ecology also forwards quarterly status reports via email to representatives of the City of Algona, City of Auburn, City of Pacific, South King County Health Department, and Washington State Department of Health (WDOH).

Ecology project managers, Robin Harrover and Neal Hines, continued to attend regularly scheduled conference calls with Boeing, Landau Associates, and the City of Algona's environmental consultant, ICF International (ICF). The calls were scheduled weekly but in July, the schedule was adjusted to a bi-weekly frequency. The primary purpose of these calls is to discuss technical aspects of the project scope and schedule, data results, and public outreach. Boeing and Ecology communication personnel also attend these calls. Meeting notes continue to be recorded and distributed by Landau Associates.

Site-wide Vapor Intrusion Assessment

Boeing continued work on updating the site-wide *Draft Vapor Intrusion Evaluation and Assessment Approach* report (site-wide vapor intrusion approach report). The site-wide vapor intrusion approach report will be resubmitted to Ecology in the fourth quarter of 2014.

Algona Residential Vapor Intrusion Assessment

The Phase II (winter 2014) vapor intrusion sampling took place between January 27, 2014 and April 23, 2014. In an effort to provide the public with an update on the results of the Phase II sampling, Ecology and Boeing agreed that a Phase II vapor intrusion summary report, tailored to public understanding, should be prepared. Boeing submitted a draft of the Phase II vapor intrusion summary report on June 2, 2014. The first set Ecology comments were received on July 1, 2014 (Reference #1). Boeing resubmitted another draft of the Phase II vapor intrusion summary report on July 18, 2014 (Reference #7) and received Ecology approval on July 25, 2014 (Reference #10). Boeing finalized the Phase II vapor intrusion summary report and submitted it to Ecology on July 30, 2014 (Reference #24). Boeing also submitted a draft website summary to Ecology on July 3, 2014 (Reference #3). Ecology made modifications to the website summary and returned it to Boeing on July 29, 2014 (Reference #13). However, Ecology decided not to post the website summary on the website, as such it was never finalized.

Boeing also prepared a technical report describing the results of both Phase I and Phase II sampling and submitted a draft of this report to Ecology on August 14, 2014 (Reference #30). Ecology provided comments and approval of the report on September 25, 2014 (Reference #49). Boeing incorporated Ecology's comments and finalized the document. The final document was submitted on September 30, 2014 (Reference #50).

Boeing proposed to update the residential groundwater screening levels protective of indoor air based on results from the Phase I and Phase II vapor intrusion sampling. Landau Associates presented calculations for these revised screening levels to Ecology on August 14, 2014 (Reference #32). Ecology, Boeing, and Landau Associates discussed these screening level calculations and on August 29, 2014,

Ecology requested the submittal of a technical memorandum updating the groundwater screening levels protective of indoor air (Reference #37).

Chicago Avenue Ditch Over-Water Air Sampling

At the request of Ecology and WDOH, Boeing agreed to collect air samples from the air directly above the Chicago Avenue ditch and compare the volatile organic compound results to water samples collected from the ditch. Boeing submitted a draft work plan for the Chicago Avenue ditch air and surface water sampling to Ecology in October 2013. In the second quarter 2014, Ecology requested that Boeing resubmit a simplified work plan for Chicago Avenue ditch air sampling. Boeing submitted the draft work plan to Ecology on July 29, 2014 (Reference #11). Ecology provided initial approval to start the field work via email on July 30, 2014 (Reference #25). Ecology provided approval for the work plan on August 14, 2014 (Reference #31). Boeing finalized the work plan and submitted it to Ecology on August 20, 2014 (Reference #34). Over-water air and co-located surface water sampling occurred on August 11, 26, and 27, 2014. Boeing intends to submit a draft technical memorandum discussing the results of this sampling in the fourth quarter 2014.

Commercial Vapor Intrusion Assessment

Boeing is working on creating a commercial vapor intrusion assessment work plan for the first phase of commercial vapor intrusion sampling. Boeing expects to submit this work plan to Ecology in the fourth quarter 2014.

Algona Yard and Ditch Sampling

The yard and ditch sampling field investigation was split into two phases. The first phase included roadside ditch sampling and the second phase included residential ponded yard water sampling. Reporting tasks for the roadside ditch sampling were completed in the second quarter 2014.

Yard water sampling was completed in the first quarter of 2014 and data letters were sent out to the property owners in the first and second quarters of 2014. Boeing prepared a technical memorandum summarizing the results of the yard water sampling and submitted it to Ecology on July 31, 2014 (Reference #26). Ecology provided comments on the technical memorandum on September 22, 2014 (Reference #44). Boeing finalized the technical memorandum based on comments from Ecology and submitted the final technical memorandum on September 25, 2014 (Reference #48).

Surface Water Sampling

The 2014 surface water sampling in Algona includes quarterly sampling at three locations at the Chicago Avenue Ditch. The City of Algona provided a permit for accessing and sampling the Chicago

Avenue ditch on October 30, 2013. Three quarters of sampling at the Chicago Avenue ditch were previously completed (December 2013, February 2014, and May 2014). The fourth and final quarterly sampling event occurred on September 5, 2014. The Chicago Avenue ditch September surface water sampling results are provided in Attachment 1. The surface water sampling locations are presented on Figure 1-1. A complete summary of analytical results is presented in Table 1-1.

The 2014 surface water sampling in Auburn includes a wet season and a dry season surface water sampling event. Wet season surface water sampling was completed in Auburn in March and April 2014. Results of the wet season surface water sampling were submitted to Ecology in the second quarter 2014. Dry season surface water sampling was completed on September 5, 2014. The Auburn dry season surface water sampling results are provided in Attachment 2. The dry season surface water sampling locations are presented on Figure 2-1. A complete summary of analytical results is presented in Table 2-1.

The results of the 2014 surface water investigation will be presented in a report that Boeing plans to submit to Ecology in the fourth quarter 2014. Results from this investigation will be used to determine a long-term surface water monitoring plan that will also be submitted to Ecology in the fourth quarter 2014.

Algona Drilling Program

Boeing submitted the work plan for additional drilling in Algona in May 2014. The field work described in the work plan included drilling and installation of 12 monitoring wells in Algona. The well drilling and installation consisted of nine continuous multichannel tubing (CMT) multi-level wells and three conventional water table wells. Other field work in Algona also included drilling of five direct-push probe explorations with borehole groundwater samples collected from temporary well screens. Well drilling and installation and the five direct-push probe explorations in Algona were completed in June 2014. The new wells were developed between June 30 and July 3, 2014. New well sampling took place between July 9 and July 15, 2014.

Additional field work described in the work plan included nine direct-push probe explorations with borehole groundwater samples collected from temporary well screens along the Interurban Trail. The proposed locations along the Interurban Trail are on property owned by PSE. A limited use permit was granted by PSE on July 2, 2014. The nine direct-push probe explorations along the Interurban Trail were completed between July 7 and July 15, 2014.

Results from the direct-push borehole groundwater sampling and the new well sampling were presented to Ecology on August 5, 2014 (Reference #28). The results will be discussed in an additional Algona groundwater investigation report. Boeing intends to submit this report to Ecology in the fourth quarter 2014.

Fall 2012 to Fall 2013 Drilling Program

A total of 21 wells were proposed in the fall 2012 drilling work plan. Eighteen of the proposed wells were installed between fall 2012 and fall 2013. The remaining three wells proposed on General Services Administration (GSA) property have been postponed due to delays in obtaining an access agreement with GSA. A draft report summarizing data collected from the fall 2012 to fall 2013 drilling program was submitted to Ecology in June 2014. Boeing expects to receive comments from Ecology on this report in the fourth quarter 2014.

Auburn Drilling Program

Ecology requested additional well locations for a fall 2014 drilling work plan on July 11, 2014 (Reference #5). Boeing and Ecology discussed these locations during project conference calls and Boeing submitted a work plan for a supplemental Auburn groundwater investigation on August 21, 2014 (Reference #36). Boeing and Ecology had two additional meetings to further discuss Auburn well locations in September 2014. Boeing expects to receive Ecology comments on the supplemental Auburn groundwater investigation work plan and plans to finalize the work plan in the fourth quarter 2014. In order to expedite the drilling preparations, Boeing has been pursuing ROW and construction permits for the installation of these wells with the City of Auburn. Boeing plans to install these wells in the fourth quarter of 2014 pending approval of permits and the work plan.

Boeing Initiated Investigations

Utility tunnel sampling occurred in March 2014. Results of the utility tunnel sampling were provided to Ecology on March 26, 2014. Boeing submitted a final technical memorandum detailing the results of the utility tunnel sampling on September 19, 2014 (Reference #43).

Private Well Survey

Boeing completed a survey of possible private wells in the vicinity of the groundwater plumes. On September 18, 2014, Boeing submitted a draft technical memorandum about the private well survey to Ecology (Reference #42). Boeing expects to receive comments from Ecology on this technical memorandum in the fourth quarter 2014.

Groundwater and Surface Water Level Monitoring

Groundwater and surface water level monitoring occurs at locations in Auburn and Algona. Water level monitoring in Auburn includes monthly surface water measurements at a staff gauge in the Auburn 400 north flood storage pond and the depth to groundwater at the adjacent wells (AGW235 and AGW236). Water level monitoring in Algona includes hourly pressure transducer measurements at a

datalogger station in the Chicago Avenue ditch and hourly pressure transducer measurements at dataloggers in adjacent shallow zone wells (AGW225 and AGW226). Water levels were collected at these locations and dataloggers were downloaded on July 28, August 20, and September 18, 2014. The groundwater and surface water level monitoring has been completed for 2014 and this data will be presented in a report about the 2014 surface water investigation in the fourth quarter 2014.

Synoptic water levels were collected from all wells in the monitoring well network on July 7 and 8, 2014. These water levels were used to update the site-wide groundwater elevation contour figures. These figures were submitted to Ecology with the concentration plume figures on September 23, 2014 (Reference #46).

Groundwater Sampling

On August 6, 2014, Boeing submitted a draft Phase VI (i.e., six) interim groundwater monitoring plan to Ecology for review (Reference #29). The proposed Phase VI monitoring plan included adjustments to the sampling schedule at a number of wells. In order to review the requests in the monitoring plan, Ecology requested a table of the complete proposed Phase VI wells and analytes and Boeing provided this table to Ecology on September 2, 2014 (Reference #38). Ecology provided a list of the wells that needed continued quarterly sampling on September 5, 2014 (Reference #39). Boeing expects to receive complete Ecology comments on the proposed Phase VI groundwater monitoring plan in the fourth quarter 2014.

Boeing updated the groundwater concentration plume figures with the data from the June 2014 groundwater sampling and the new well sampling in July 2014. Boeing provided these figures to Ecology along with the groundwater elevation contour figures on September 23, 2014 (Reference #46).

Quarterly groundwater sampling took place from September 3 to September 10, 2014. The quarterly groundwater sampling data are provided in Attachment 3. The current monitoring well network is presented on Figure 3-1. A sampling matrix of the September 2014 quarterly sampling event is presented in Table 3-1. A complete summary of analytical results is presented in Table 3-2. Detections are summarized in Table 3-3. Several samples had elevated reporting limits due to sample foaming. Boeing requested reanalysis of these samples with anti-foaming agent to ensure appropriate reporting limits.

Building 17-68 Dewatering Sampling

Boeing is collecting monthly samples from two sentry wells (AGW020 and AGW103) during the construction dewatering at Building 17-68. Groundwater samples were collected on July 28, August 28, and September 28, 2014. Boeing also continues to monitor groundwater levels at shallow groundwater wells in the area during Building 17-68 dewatering activities.

City of Algona Communications

The City of Algona has been notified of all field work occurring in Algona. The City of Algona's consultant, ICF, continues to participate in project conference calls with Boeing and Ecology and continues to review Algona-related deliverables (e.g., work plans and reports). Ecology also has communications conference calls with Mayor Hill (City of Algona). Ecology shares information from these meetings with Boeing by distributing meeting notes and discussions during project conference calls.

On September 16, 2014, an in-person project meeting was held at the Ecology northwest regional office about the results from the recently installed wells in Algona (Reference #41). This meeting was attended by Mayor Hill, ICF, Futurewise, Boeing, and Landau Associates. Possible new well locations in Algona were discussed during this meeting and Ecology provided a map of well locations that the City of Algona requested on September 24, 2014 (Reference #47). Boeing intends to complete a work plan for additional groundwater monitoring wells in Algona in the fourth quarter 2014.

An event called Algona Days was held in Algona on July 18 and 19, 2014. Ecology, Futurewise, and the Algona Public Awareness Coalition (APAC) attended Algona Days and provided information about the Boeing Auburn project to the community. In preparation for this event, Ecology provided a draft fact sheet to be distributed at Algona Days to Boeing for a courtesy review on July 9, 2014 (Reference #4). Boeing provided comments on the fact sheet on July 11, 2014 (Reference #6). APAC generated a list of questions from their conversations with the community in Algona and are planning to use this list to create a frequently asked questions handout. Ecology shared this list of questions with Boeing on September 23, 2014 (Reference #45).

Ecology completed two drop-in sessions at the Algona-Pacific Public Library in the second quarter 2014 and had one additional drop-in session on July 16, 2014. Ecology also completed two walking tours along the Chicago Avenue ditch on August 5 and August 15, 2014. Ecology shared the discussions that occurred during the drop-in session and walking tours with Boeing during conference calls.

City of Auburn Communications

Conference calls with the City of Auburn continue to occur monthly. Regular attendees include representatives from Boeing, Landau Associates, the City of Auburn, and Ecology. Meeting notes continue to be recorded and distributed by Landau Associates.

Ecology gave a presentation to the Auburn City Council on June 30, 2014. This presentation provided an update on the Boeing Auburn facility groundwater contamination. Ecology provided Boeing with a copy of the presentation that was given at the Auburn City Council meeting and Ecology's responses to questions asked at that meeting on July 23, 2014 (Reference #9).

Ecology hand-delivered leaflets to the Auburn residential area on September 17, 2014. The purpose of the flyer was to provide an introduction to the project and to the Ecology staff as a resource for residents in Auburn. Ecology provided a draft of the leaflet to Boeing for courtesy review on September 15, 2014 (Reference #40).

Health Risk Assessment Activities

WDOH completed a letter health consultation for exposures to surface water in Chicago Avenue ditch and Government Canal in March 2013. WDOH drafted an updated assessment of exposures to surface water in Algona based on sampling that Boeing completed in 2013. On July 2, 2014, WDOH sent a draft of this health consultation to Boeing for a courtesy review (Reference #2). Boeing returned comments on the letter health consultation on July 18, 2014 (Reference #8). On July 29, 2014, WDOH also sent a draft of the summary for the letter health consultation to Boeing for a courtesy review (Reference #14). Boeing returned comments on this summary on August 5, 2014 (Reference #27). WDOH finalized this letter health consultation on August 15, 2014 (Reference #33).

OCCURRENCE OF PROBLEMS

None noted.

PROJECTED WORK FOR NEXT REPORTING PERIOD OCTOBER THROUGH DECEMBER 2014

Activities projected for the next reporting period pertain to the ongoing remedial investigation; including groundwater, vapor intrusion, and surface water investigations. It is anticipated that tasks during fourth quarter 2014 will include:

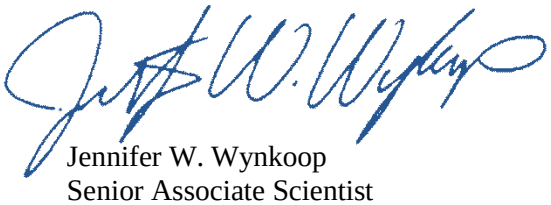
- Completing the 2014 surface water investigation report
- Submitting a long-term surface water monitoring plan
- Completing the Chicago Avenue ditch over-water air sampling technical memorandum
- Submitting the vapor intrusion assessment approach document
- Submitting a work plan for commercial vapor intrusion additional Tier I assessment
- Completing additional Tier I commercial vapor intrusion sampling
- Submitting a work plan for commercial vapor intrusion Tier II assessment
- Completing the 2014 Algona groundwater investigation data report
- Finalizing the work plan for additional groundwater investigations in Auburn
- Installing the proposed wells in Auburn and at GSA
- Submitting a work plan for the 2015 additional groundwater investigations in Algona
- Conducting the semiannual groundwater sampling event in December 2014.

OTHER SIGNIFICANT FINDINGS, CHANGES, AND CONTACTS

None noted.

If you have any questions regarding this status report, or need any other information, please do not hesitate to call or email Jim Bet (206) 679-0433 or me (253) 284-4879.

LANDAU ASSOCIATES, INC.



Jennifer W. Wynkoop
Senior Associate Scientist

SEF/JWW/jrc

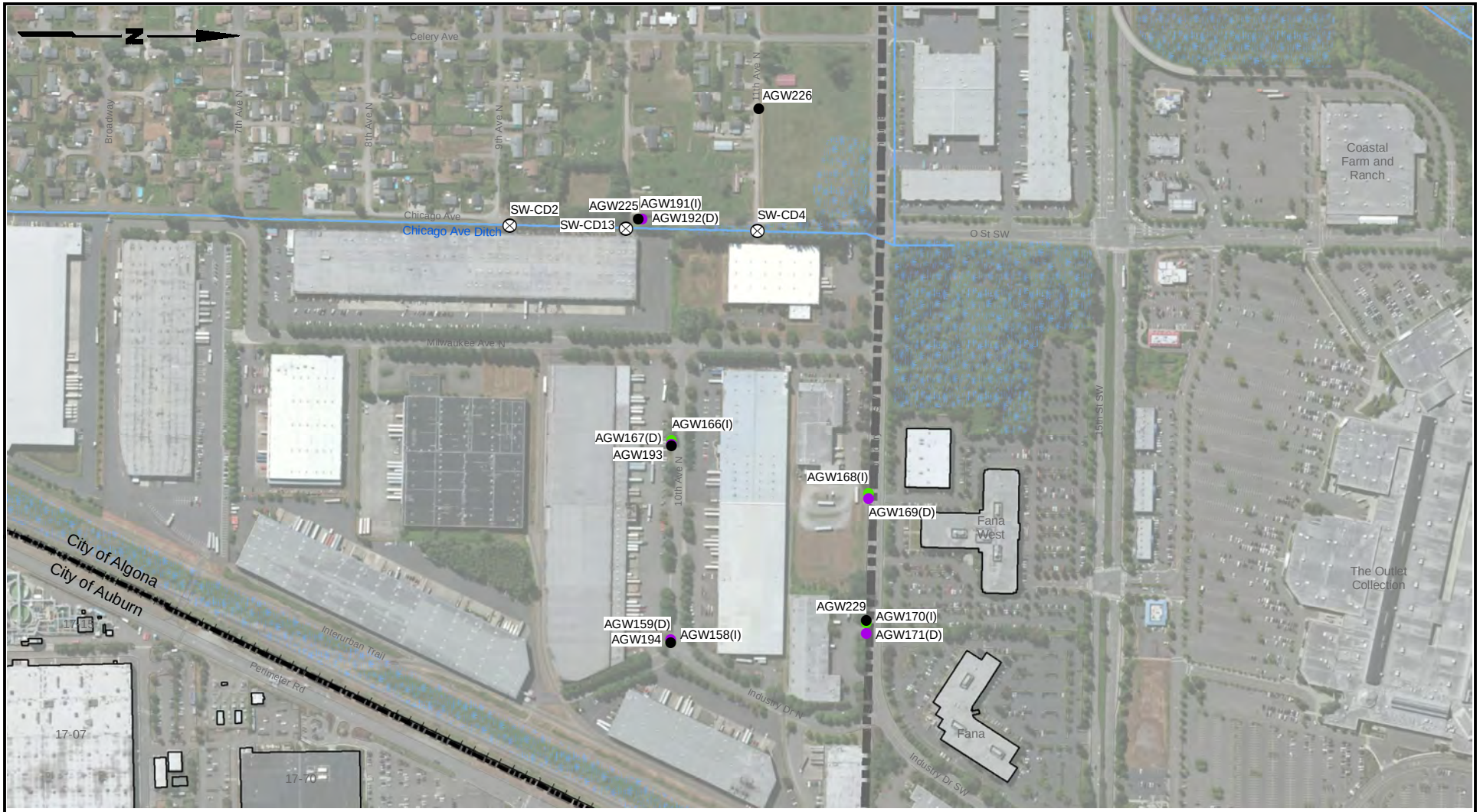
Attachments: Attachment 1: Chicago Avenue Ditch Surface Water Sampling Results
Attachment 2: Auburn Surface Water Sampling Results
Attachment 3: Groundwater Sampling Results

cc: James Bet, The Boeing Company (email only)
David Hartnett, The Boeing Company (email only)
Megan Hilfer, The Boeing Company (email only)
Jeff Averyt, The Boeing Company
Jim Swortz, The Boeing Company
Jeff Adelson, Boeing Realty Corporation
Steve Campbell, Prologis
Neal Hines, Washington State Department of Ecology (email only)
Terry Pollard, YMCA Auburn

ATTACHMENT 1

Chicago Avenue Ditch Surface Water Sampling Results

G:\Projects\025\164\110\501\3rd Quarter 2014 Status Report\Figure1-1COA.mxd 10/6/2014 NAD 1983 StatePlane Washington North FIPS 4601 Feet



Legend

- Shallow Monitoring Well
- Intermediate Monitoring Well
- Deep Monitoring Well
- Chicago Avenue Ditch Surface Water Sampling Location
- City Limits
- Boeing Property
- Waterways
- Wetland Areas

0 500 1,000

Scale in Feet

Note

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Base map source: Geometrix 2003; Aerial Photo Source: Esri World Imagery; Parcel Data Source: King County GIS 2013

LANDAU ASSOCIATES

Boeing of Auburn
Auburn, Washington

City of Algona Wells and Chicago Avenue Ditch Surface Water Sampling Locations

Figure 1-1

TABLE 1-1
CHICAGO AVENUE DITCH SURFACE WATER ANALYTICAL RESULTS
3RD QUARTER 2014
BOEING AUBURN

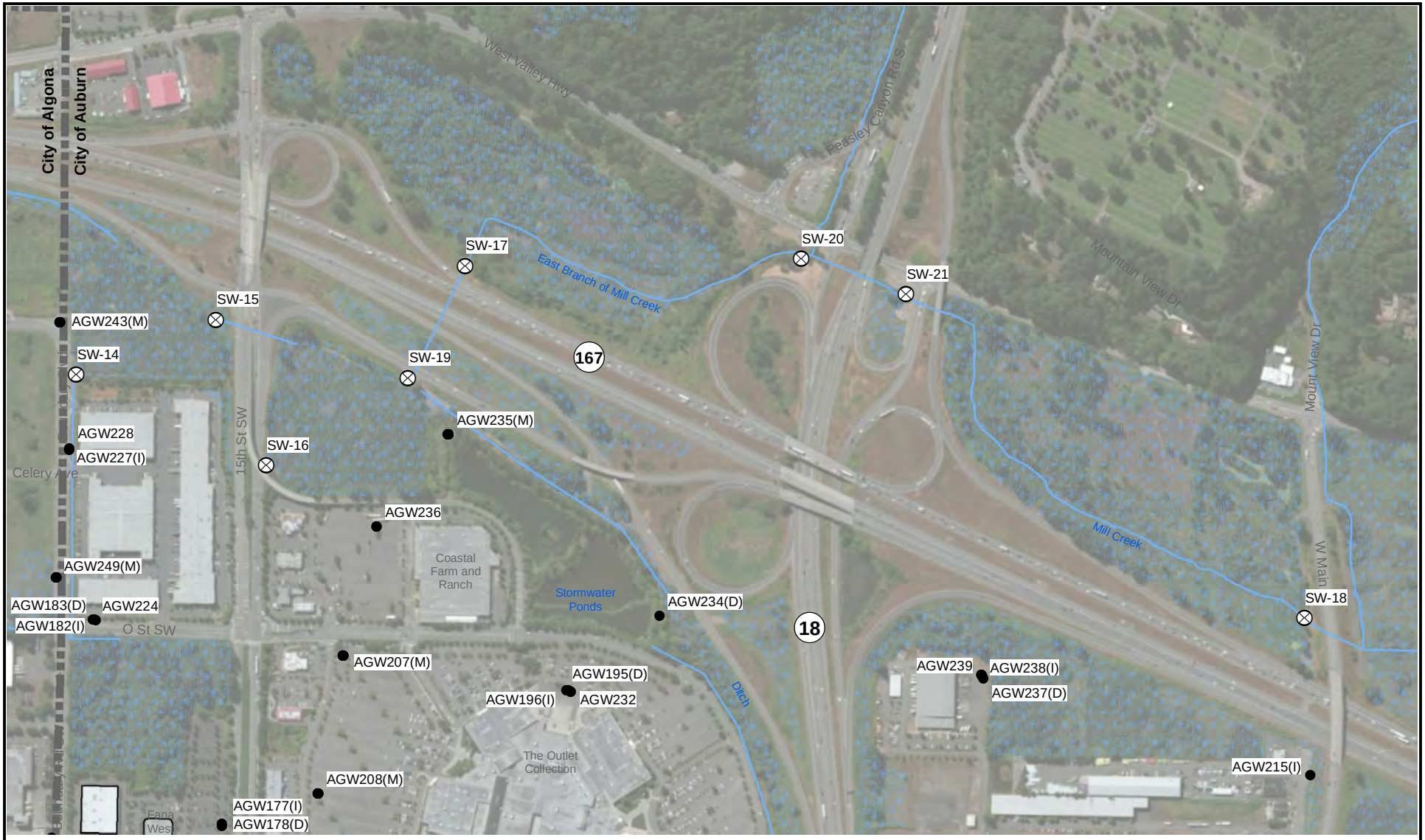
	SW-CD2	Dup of SW-CD2 SW-900	SW-CD4	SW-CD13
	1501458	1501458	1501458	1501458
	7590368	7590369	7590361	7590367
	9/5/2014	9/5/2014	9/5/2014	9/5/2014
VOCs (µg/L)				
Method SW8260C				
Acetone	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	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
Carbon Tetrachloride	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
Chloroethane	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
Chloromethane	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
1,1-Dichloroethane	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
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	**1.1**	**1.1**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	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
trans-1,3-Dichloropropene	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
2-Hexanone	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
Methylene Chloride	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
1,1,2,2-Tetrachloroethane	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
Toluene	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
1,1,1-Trichloroethane	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
Trichloroethene	0.2 U	0.2 U	**1.7**	0.2 U
Trichlorofluoromethane	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
Vinyl Chloride	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
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U
VOCs-SIM (µg/L)				
Method SW8260CSIM				
Vinyl Chloride	**0.10**	**0.093**	**0.13**	**0.21**

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

ATTACHMENT 2

Auburn Surface Water Sampling Results

G:\Projects\025\164\110\501\3rd Quarter 2014 Status Report\Figure2-1AuburnSurfaceWaterSamplesSept2014.mxd 10/6/2014 NAD 1983 StatePlane Washington North FIPS 4601 Feet



Legend

- Surface Water Sample
- Existing Monitoring Well Location
- Wetland Areas
- Waterways
- Boeing Property

N

0 600 1,200

Scale in Feet

Base map source: Geometrix 2003; Aerial Photo Source: ESRI World Imagery; Parcel Data Source: King County GIS 2013

Note

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

LANDAU ASSOCIATES

Boeing Auburn
Auburn, Washington

Auburn Surface Water Sampling Locations September 2014

Figure 2-1

TABLE 2-1
AUBURN SURFACE WATER ANALYTICAL RESULTS
SEPTEMBER 2014
BOEING AUBURN

	SW-14 1501458 7590360 9/5/2014	SW-15 1501458 7590370 9/5/2014	SW-16 1501458 7590371 9/5/2014	SW-17 1501458 7590363 9/5/2014	SW-18 1501458 7590365 9/5/2014	SW-19 1501458 7590362 9/5/2014
VOCs (µg/L)						
Method SW8260C						
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	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
Bromodichloromethane	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
Bromomethane	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
Carbon Disulfide	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
Chlorobenzene	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
Chloroform	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
Dibromochloromethane	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
1,2-Dichloroethane	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
cis-1,2-Dichloroethene	**0.7**	0.2 U	**1.4**	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	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
cis-1,3-Dichloropropene	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
Ethylbenzene	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
4-Methyl-2-Pentanone (MIBK)	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
Styrene	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
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	**0.3**	**0.3**	**0.7**	**0.3**	**19**
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
1,1,1-Trichloroethane	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
Trichloroethene	**0.9**	0.2 U	**1.0**	0.2 U	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
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	**0.2**	0.2 U	**0.3**	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
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
VOCs-SIM (µg/L)						
Method SW8260CSIM						
Vinyl Chloride	**0.061**	0.020 U	**0.32**	**0.059**	0.020 U	**0.13**

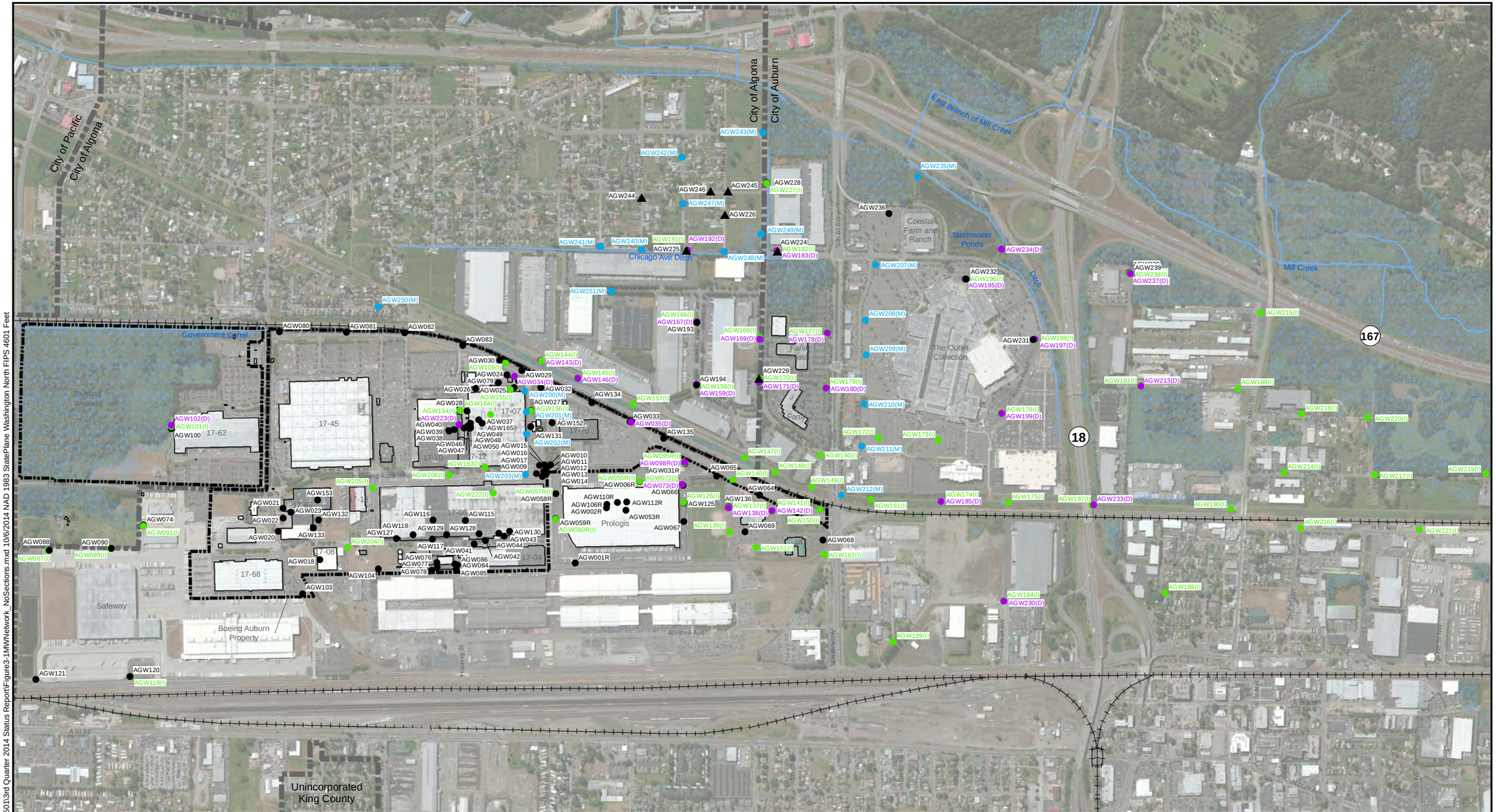
TABLE 2-1
AUBURN SURFACE WATER ANALYTICAL RESULTS
SEPTEMBER 2014
BOEING AUBURN

	SW-20 1501458 7590364 9/5/2014	SW-21 1501458 7590366 9/5/2014
VOCs (µg/L)		
Method SW8260C		
Acetone	5.0 U	5.0 U
Benzene	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U
2-Butanone	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U
Styrene	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U
Toluene	**0.3**	**0.4**
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U
m,p-Xylene	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U
VOCs-SIM (µg/L)		
Method SW8260CSIM		
Vinyl Chloride	0.020 U	0.020 U

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

ATTACHMENT 3

Groundwater Sampling Results



G:\Projects\025\164\11\0501\3rd Quarter 2014 Status Report\Figure3-1MWNetwork_NoSections.mxd 10/6/2014 NAD 1983 StatePlane Washington North FIPS 4601 Feet

Note

1. 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

Current Monitoring Well Network

Figure 3-1

TABLE 3-1
SAMPLE MATRIX
3rd QUARTER 2014
BOEING AUBURN

Location	SDG	Lab ID	Sample Date	VOCs	VOC SIM
AGW183	1502994	7597634	9/10/2014	x	x
AGW191	1502994	7597636	9/10/2014	x	x
AGW192	1502994	7597635	9/10/2014	x	x
AGW215	1502994	7597628	9/10/2014	x	x
AGW215-Dup	1502994	7597629	9/10/2014	x	x
AGW225	1502994	7597637	9/10/2014	x	x
AGW226	1502994	7597638	9/10/2014	x	x
AGW227	1502994	7597632	9/10/2014	x	x
AGW228	1502994	7597633	9/10/2014	x	x
AGW235-2	1502994	7597630	9/10/2014	x	x
AGW235-4	1502994	7597631	9/10/2014	x	x
AGW237	1501419	7590113	9/3/2014	x	x
AGW238	1501419	7590112	9/3/2014	x	x
AGW239	1501419	7590111	9/3/2014	x	x
AGW240-1	1501419	7590108	9/3/2014	x	x
AGW240-3	1501419	759019	9/3/2014	x	x
AGW240-5	1501419	7590110	9/3/2014	x	x
AGW241-1	1501456	7590343	9/4/2014	x	x
AGW241-3	1501456	7590344	9/4/2014	x	x
AGW241-5	1501456	7590345	9/4/2014	x	x
AGW242-1	1501419	7590107	9/3/2014	x	x
AGW242-2	1501419	7590106	9/3/2014	x	x
AGW242-3	1501419	7590105	9/3/2014	x	x
AGW242-4	1501419	7590104	9/3/2014	x	x
AGW242-5	1501419	7590103	9/3/2014	x	x
AGW242-6	1501419	7590101	9/3/2014	x	x
AGW242-6-Dup	1501419	7590102	9/3/2014	x	x
AGW243-1	1501420	7590117	9/3/2014	x	x
AGW243-3	1501420	7590116	9/3/2014	x	x
AGW243-5	1501420	7590115	9/3/2014	x	x
AGW244	1501457	7590357	9/5/2014	x	x
AGW245	1501456	7590342	9/4/2014	x	x
AGW246	1501456	7590353	9/4/2014	x	x
AGW247-1	1501456	7590346	9/4/2014	x	x
AGW247-3	1501456	7590347	9/4/2014	x	x
AGW247-5	1501456	7590348	9/4/2014	x	x
AGW248-1	1501456	7590349	9/4/2014	x	x
AGW248-3	1501456	7590351	9/4/2014	x	x
AGW248-3-Dup	1501456	7590352	9/4/2014	x	x
AGW248-5	1501456	7590350	9/4/2014	x	x
AGW249-1	1501457	7590354	9/5/2014	x	x
AGW249-3	1501457	7590355	9/5/2014	x	x
AGW249-5	1501457	7590356	9/5/2014	x	x
AGW250-1	1501455	7590333	9/4/2014	x	x
AGW250-2	1501455	7590334	9/4/2014	x	x
AGW250-3	1501455	7590335	9/4/2014	x	x
AGW250-4	1501455	7590336	9/4/2014	x	x
AGW250-5	1501455	7590337	9/4/2014	x	x
AGW250-6	1501455	7590338	9/4/2014	x	x
AGW250-7	1501455	7590339	9/4/2014	x	x
AGW251-1	1501420	7590119	9/3/2014	x	x
AGW251-2	1501420	7590125	9/3/2014	x	x
AGW251-2-Dup	1501420	7590124	9/3/2014	x	x
AGW251-3	1501420	7590123	9/3/2014	x	x
AGW251-4	1501420	7590120	9/3/2014	x	x
AGW251-5	1501420	7590121	9/3/2014	x	x
AGW251-6	1501420	7590122	9/3/2014	x	x
AGW251-7	1501420	7590118	9/3/2014	x	x

TABLE 3-2
GROUNDWATER SAMPLING EVENT RESULTS
3rd QUARTER 2014
BOEING AUBURN

Sample ID:	AGW183	AGW191	AGW192	AGW215	Dup of AGW215 AGW903	AGW225	AGW226	AGW227	AGW228	AGW235-2	AGW235-4
Zone:	Deep	Int.	Deep	Int.	Int.	Water Table	Water Table	Int.	Shallow	Shallow	Int.
SDG:	1502994	1502994	1502994	1502994	1502994	1502994	1502994	1502994	1502994	1502994	1502994
Lab ID:	7597634	7597636	7597635	7597628	7597629	7597637	7597638	7597632	7597633	7597630	7597631
Sample Date:	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014
VOLATILES (µg/L)											
Method SW8260C											
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	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	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	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	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	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	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	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	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	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	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	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	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	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	0.5 U	0.5 U	**0.8**	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	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	0.2 U	0.2 U	**0.4**	**0.4**
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**6.0**	**3.7**	**3.0**	**3.5**	**4.1**	**9.4**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.6**	**0.4**	**0.4**	**0.5**	**0.3**	**0.2**
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	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	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	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	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	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	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	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	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	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	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	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	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	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	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**2.2**	**4.8**	**2.4**	**2.8**	0.2 U	**4.2**
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	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	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	**0.5**	**0.6**	**0.3**	**0.3**	**0.5**	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	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	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						
Vinyl Chloride	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	**0.43**	**0.55**	**0.29**	**0.30**	**0.70**	**0.14**

TABLE 3-2
GROUNDWATER SAMPLING EVENT RESULTS
3rd QUARTER 2014
BOEING AUBURN

Sample ID:	AGW237	AGW238	AGW239	AGW240-1	AGW240-3	AGW240-5	AGW241-1	AGW241-3	AGW241-5	AGW242-1	AGW242-1	AGW242-2	AGW242-3
Zone:	Deep	Int.	Shallow	Water Table	Shallow	Shallow	Water Table	Shallow	Shallow	Water Table	Water Table	Shallow	Shallow
SDG:	1501419	1501419	1501419	1501419	1501419	1501419	1501456	1501456	1501456	1501419	1504721	1501419	1501419
Lab ID:	7590113	7590112	7590111	7590108	7590109	7590110	7590343	7590344	7590345	7590107	7606430	7590106	7590105
Sample Date:	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/4/2014	9/4/2014	9/4/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014
VOLATILES (µg/L)													
Method SW8260C													
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		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	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	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	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 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ		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	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	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	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	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 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ		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	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	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	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U
1,1-Dichloroethane	**0.7**	0.5 U	**0.6**	0.5 U	0.5 U	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	0.2 U	0.2 U	0.2 U		0.2 U	0.2 U
1,1-Dichloroethene	**1.0**	0.2 U	**0.3**	0.2 U	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	**1.0**	0.2 U	**10**	0.2 U	**0.5**	**6.7**	0.2 U	**0.6**	**0.7**	0.2 U		0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	**0.5**	**0.3**	**0.3**	**0.8**	0.2 U	0.2 U	**0.2**	0.2 U		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	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	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	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	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	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	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	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	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	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	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**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**1.5**		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	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	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	0.2 U	0.2 U	0.2 U		0.2 U	0.2 U
Trichloroethene	**3.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U		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	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 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ		0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	**0.9**	**0.4**	**3.6**	**4.0**	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	**0.9**	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	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U
VOLATILES (µg/L)													
Method 8260C SIM													
Tetrachloroethene	**0.046**	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	**0.026**	0.020 U	0.020 U	0.10 U	0.020 UJ	0.020 U	0.020 U
Vinyl Chloride	**0.045**	0.020 U	**0.94**	**0.55**	**3.8**	**4.2**	0.020 U	**0.027**	**0.036**	**0.19**	0.020 UJ	0.020 U	0.020 U

TABLE 3-2
GROUNDWATER SAMPLING EVENT RESULTS
3rd QUARTER 2014
BOEING AUBURN

Sample ID:	AGW242-4	AGW242-5	AGW242-6	Dup of AGW242-6 AGW900	AGW243-1	AGW243-1	AGW243-3	AGW243-5	AGW244	Anti-foaming agent used AGW244	AGW245	Anti-foaming agent used AGW246	Anti-foaming agent used AGW246
Zone:	Int.	Int.	Int.	Int.	Water Table	Water Table	Shallow	Shallow	Water Table	Water Table	Water Table	Water Table	Water Table
SDG:	1501419	1501419	1501419	1501419	1501420	1504721	1501420	1501420	1501457	1504721	1501456	1501456	1504721
Lab ID:	7590104	7590103	7590101	7590102	7590117	7606426	7590116	7590115	7590357	7606429	7590342	7590353	7606427
Sample Date:	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/5/2014	9/5/2014	9/4/2014	9/4/2014	9/4/2014
VOLATILES (µg/L)													
Method SW8260C													
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	**6.9**		**7.6**	5.0 U	5.0 U		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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.2 U		0.2 U	0.2 U	
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U		0.2 U	0.2 U	0.2 U		**0.2**	0.2 U	
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U		0.2 U	0.2 U	0.2 U		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	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	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	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	**0.8**		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	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	5.0 U		5.0 U	5.0 U	
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	**0.6**		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	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	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	0.2 U		0.2 U	0.2 U	
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	**0.4**		**0.2**	**0.3**	**0.2**		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	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	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	0.2 U		0.2 U	0.2 U	
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U		0.2 U	0.2 U	0.2 U		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	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	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	0.2 U		**0.7**	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	**2.3**		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	**1.6**		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	0.10 U	**0.024** J	0.020 U	0.020 U	0.10 U	0.020 UJ	0.020 U	0.10 U	0.020 UJ
Vinyl Chloride	0.020 U	0.020 U	0.020 U	0.020 U	0.10 U	**0.048** J	0.020 U	0.020 U	0.10 U	0.020 UJ	**0.83**	0.10 U	0.020 UJ

TABLE 3-2
GROUNDWATER SAMPLING EVENT RESULTS
3rd QUARTER 2014
BOEING AUBURN

Sample ID:	AGW247-1	AGW247-3	AGW247-5	AGW248-1	Anti-foaming agent used AGW248-1	AGW248-3	Dup of AGW248-3 AGW902	AGW248-5	AGW249-1	AGW249-3	AGW249-5	AGW250-1	AGW250-2	AGW250-3
Zone:	Water Table	Shallow	Shallow	Water Table	Water Table	Shallow	Shallow	Shallow	Water Table	Shallow	Shallow	Water Table	Shallow	Int.
SDG:	1501456	1501456	1501456	1501456	1504721	1501456	1501456	1501456	1501457	1501457	1501457	1501455	1501455	1501455
Lab ID:	7590346	7590347	7590348	7590349	7606428	7590351	7590352	7590350	7590354	7590355	7590356	7590333	7590334	7590335
Sample Date:	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/5/2014	9/5/2014	9/5/2014	9/4/2014	9/4/2014	9/4/2014
VOLATILES (µg/L)														
Method SW8260C														
Acetone	5.0 U	5.0 U	5.0 U	25 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	1.0 U	0.2 UJ	0.2 U	0.2 U	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	2.5 U	0.5 UJ	0.5 U	0.5 U	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	2.5 U	0.5 UJ	0.5 U	0.5 U	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	2.5 U	0.5 UJ	0.5 U	0.5 U	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	25 U	5.0 UJ	5.0 U	5.0 U	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	2.5 U	0.5 UJ	0.5 U	0.5 U	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	1.0 U	0.2 UJ	0.2 U	0.2 U	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	2.5 U	0.5 UJ	0.5 U	0.5 U	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	2.5 U	0.5 UJ	0.5 U	0.5 U	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	1.0 U	0.2 UJ	0.2 U	0.2 U	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	2.5 U	0.5 UJ	0.5 U	0.5 U	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	2.5 U	0.5 UJ	0.5 U	0.5 U	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	2.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	**0.3**	**0.3**	**0.3**	1.0 U	0.2 UJ	0.2 U	0.2 U	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	1.0 U	0.2 UJ	0.2 U	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	**5.2**	**6.9**	**6.1**	1.0 U	0.2 UJ	**2.0**	**2.0**	**2.1**	**1.3**	**2.5**	**2.4**	0.2 U	**0.3**	**0.7**
trans-1,2-Dichloroethene	**0.4**	**0.8**	**0.5**	1.0 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	**0.2**	0.2 U	0.2 U	**0.2**
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	2.5 U	0.5 UJ	0.5 U	0.5 U	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	1.0 U	0.2 UJ	0.2 U	0.2 U	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	1.0 U	0.2 UJ	0.2 U	0.2 U	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	2.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	**0.6**	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	25 U	5.0 UJ	5.0 U	5.0 U	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	25 U	5.0 UJ	5.0 U	5.0 U	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	2.5 U	0.5 UJ	0.5 U	0.5 U	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	2.5 U	0.5 UJ	0.5 U	0.5 U	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	1.0 U	0.2 UJ	0.2 U	0.2 U	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	1.0 U	0.2 UJ	0.2 U	0.2 U	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	1.0 U	**0.2** J	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
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U	2.5 U	0.5 UJ	0.5 U	0.5 U	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	2.5 U	0.5 UJ	0.5 U	0.5 U	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	1.0 U	0.2 UJ	0.2 U	0.2 U	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	0.2 U	0.2 U	1.0 U	0.2 UJ	**5.1**	**5.0**	**4.5**	**0.5**	**6.8**	**7.3**	0.2 U	**0.3**	**0.6**
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	2.5 U	0.5 UJ	0.5 U	0.5 U	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	2.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	**0.4**	**1.1**	**1.2**	1.0 U	0.2 UJ	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 U
m,p-Xylene	0.5 U	0.5 U	**1.3**	2.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	**3.4**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	**0.7**	2.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	**1.9**	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	0.10 U	0.020 UJ	**0.11**	**0.11**	**0.11**	0.020 U	**0.12**	**0.11**	0.020 U	0.020 U	0.020 U
Vinyl Chloride	**0.38**	**1.1**	**1.2**	0.10 U	0.020 UJ	**0.18**	**0.18**	**0.17**	**0.12**	**0.16**	**0.14**	0.020 U	**0.033**	**0.052**

TABLE 3-2
GROUNDWATER SAMPLING EVENT RESULTS
3rd QUARTER 2014
BOEING AUBURN

Sample ID:	AGW250-4	AGW250-5	AGW250-6	AGW250-7	AGW251-1	AGW251-2	AGW901	AGW251-3	AGW251-4	AGW251-5	AGW251-6	AGW251-7
						Dup of AGW251-2-25						
Zone:	Int.	Int.	Deep	Deep	Water Table	Shallow	Shallow	Int.	Int.	Int.	Deep	Deep
SDG:	1501455	1501455	1501455	1501455	1501420	1501420	1501420	1501420	1501420	1501420	1501420	1501420
Lab ID:	7590336	7590337	7590338	7590339	7590119	7590125	7590124	7590123	7590120	7590121	7590122	7590118
Sample Date:	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014
VOLATILES (µg/L)												
Method SW8260C												
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	**11**	5.0 U	5.0 U	5.0 U	5.0 U	**14**	**5.9**	**7.9**
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	**0.6**	**0.6**	0.2 U	0.2 U	**0.4**	0.2 U	**0.4**
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	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	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	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	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	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	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	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	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**	0.2 U	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	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	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	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	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**0.8**	0.2 U	0.2 U	0.2 U	0.2 U	**4.2**	**4.4**	**5.8**	**0.5**	**0.7**	**0.6**	**0.7**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.4**	0.2 U	0.2 U	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	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	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	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	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	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	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	0.5 U	0.5 U	0.5 U	0.5 U	**0.7**
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	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	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	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	**4.8**	**0.8**	**0.8**	0.2 U	**1.3**	**2.6**	**0.6**	**0.4**
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	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	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	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	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	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	**1.4**	**2.3**	**2.5**	**2.9**	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	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	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	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Vinyl Chloride	**0.19**	0.020 U	0.020 U	0.020 U	**1.5**	**2.4**	**2.5**	**3.0**	**0.11**	0.020 U	**0.066**	**0.029**

U = Indicates the compound was undetected at the reported concentration.
J = Indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ = The analyte was not detected in the sample; the reported sample reporting limit is an estimate.
Bold = Detected compound.

TABLE 3-3
QUARTERLY GROUNDWATER SAMPLING EVENT RESULTS - DETECTED ANALYTES ONLY
3rd QUARTER 2014
BOEING AUBURN

Sample ID:	AGW183	AGW191	AGW192	AGW215	Dup of AGW215 AGW903	AGW225	AGW226	AGW227	AGW228	AGW235-2
Zone:	Deep	Int.	Deep	Int.	Int.	Water Table	Water Table	Int.	Shallow	Shallow
SDG:	1502994	1502994	1502994	1502994	1502994	1502994	1502994	1502994	1502994	1502994
Lab ID:	7597634	7597636	7597635	7597628	7597629	7597637	7597638	7597632	7597633	7597630
Sample Date:	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014	9/10/2014
VOLATILES (µg/L)										
Method SW8260C										
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	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	0.2 U	0.2 U	0.2 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	0.5 U	0.5 U	**0.8**
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	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	0.2 U	0.2 U	**0.4**
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**6.0**	**3.7**	**3.0**	**3.5**	**4.1**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.6**	**0.4**	**0.4**	**0.5**	**0.3**
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	0.2 U	0.2 U	0.2 U	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	0.2 U	0.2 U	0.2 U	0.2 U	**2.2**	**4.8**	**2.4**	**2.8**	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	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	0.5 U	0.5 U	0.5 U
VOLATILES (µg/L)										
Method 8260C SIM										
Tetrachloroethene				0.020 U	0.020 U					
Vinyl Chloride	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	**0.43**	**0.55**	**0.29**	**0.30**	**0.70**

TABLE 3-3
QUARTERLY GROUNDWATER SAMPLING EVENT RESULTS - DETECTED ANALYTES ONLY
3rd QUARTER 2014
BOEING AUBURN

Sample ID:	AGW235-4	AGW237	AGW238	AGW239	AGW240-1	AGW240-3	AGW240-5	AGW241-1	AGW241-3	AGW241-5
Zone:	Int.	Deep	Int.	Shallow	Water Table	Shallow	Shallow	Water Table	Shallow	Shallow
SDG:	1502994	1501419	1501419	1501419	1501419	1501419	1501419	1501456	1501456	1501456
Lab ID:	7597631	7590113	7590112	7590111	7590108	7590109	7590110	7590343	7590344	7590345
Sample Date:	9/10/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/4/2014	9/4/2014	9/4/2014
VOLATILES (µg/L)										
Method SW8260C										
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	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	0.2 U	0.2 U	0.2 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	**0.7**	0.5 U	**0.6**	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	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	**0.4**	**1.0**	0.2 U	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**9.4**	**1.0**	0.2 U	**10**	0.2 U	**0.5**	**6.7**	0.2 U	**0.6**	**0.7**
trans-1,2-Dichloroethene	**0.2**	0.2 U	0.2 U	**0.5**	**0.3**	**0.3**	**0.8**	0.2 U	0.2 U	**0.2**
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	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
Trichloroethene	**4.2**	**3.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.9**	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	0.5 U	0.5 U	0.5 U
VOLATILES (µg/L)										
Method 8260C SIM										
Tetrachloroethene		**0.046**	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	**0.026**	0.020 U	0.020 U
Vinyl Chloride	**0.14**	**0.045**	0.020 U	**0.94**	**0.55**	**3.8**	**4.2**	0.020 U	**0.027**	**0.036**

TABLE 3-3
QUARTERLY GROUNDWATER SAMPLING EVENT RESULTS - DETECTED ANALYTES ONLY
3rd QUARTER 2014
BOEING AUBURN

Sample ID:	AGW242-1	AGW242-1	AGW242-2	AGW242-3	AGW242-4	AGW242-5	AGW242-6	Dup of AGW242-6 AGW900	AGW243-1	AGW243-1
Zone:	Water Table	Water Table	Shallow	Shallow	Int.	Int.	Int.	Int.	Water Table	Water Table
SDG:	1501419	1504721	1501419	1501419	1501419	1501419	1501419	1501419	1501420	1504721
Lab ID:	7590107	7606430	7590106	7590105	7590104	7590103	7590101	7590102	7590117	7606426
Sample Date:	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014
VOLATILES (µg/L)										
Method SW8260C										
Acetone	5.0 U		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**6.9**	
Benzene	0.2 U		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
Chloroform	0.2 U		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	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	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	0.2 U	
cis-1,2-Dichloroethene	0.2 U		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
trans-1,2-Dichloroethene	0.2 U		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	0.5 U	
Methylene Chloride	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.6**	
Toluene	**1.5**		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.4**	
Trichloroethene	0.2 U		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	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	0.5 U	
VOLATILES (µg/L)										
Method 8260C SIM										
Tetrachloroethene	0.10 U	0.020 UJ	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.10 U	**0.024** J
Vinyl Chloride	**0.19**	0.020 UJ	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.10 U	**0.048** J

TABLE 3-3
QUARTERLY GROUNDWATER SAMPLING EVENT RESULTS - DETECTED ANALYTES ONLY
3rd QUARTER 2014
BOEING AUBURN

Sample ID:	AGW243-3	AGW243-5	AGW244	Anti-foaming agent used AGW244	AGW245	Anti-foaming agent used AGW246	Anti-foaming agent used AGW246	AGW247-1	AGW247-3	AGW247-5
Zone:	Shallow	Shallow	Water Table	Water Table	Water Table	Water Table	Water Table	Water Table	Shallow	Shallow
SDG:	1501420	1501420	1501457	1504721	1501456	1501456	1504721	1501456	1501456	1501456
Lab ID:	7590116	7590115	7590357	7606429	7590342	7590353	7606427	7590346	7590347	7590348
Sample Date:	9/3/2014	9/3/2014	9/5/2014	9/5/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014
VOLATILES (µg/L)										
Method SW8260C										
Acetone	**7.6**	5.0 U	5.0 U		5.0 U	5.0 U		5.0 U	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	0.2 U
Chloroform	0.2 U	0.2 U	0.2 U		0.2 U	0.2 U		0.2 U	0.2 U	0.2 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	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U		0.2 U	0.2 U		**0.3**	**0.3**	**0.3**
1,1-Dichloroethene	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	0.2 U	0.2 U	0.2 U		**0.2**	0.2 U		**5.2**	**6.9**	**6.1**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U		0.2 U	0.2 U		**0.4**	**0.8**	**0.5**
Ethylbenzene	0.5 U	0.5 U	**0.8**		0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Methylene Chloride	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
Toluene	**0.2**	**0.3**	**0.2**		0.2 U	0.2 U		0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	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	**2.3**		0.5 U	0.5 U		0.5 U	0.5 U	**1.3**
o-Xylene	0.5 U	0.5 U	**1.6**		0.5 U	0.5 U		0.5 U	0.5 U	**0.7**
VOLATILES (µg/L)										
Method 8260C SIM										
Tetrachloroethene	0.020 U	0.020 U	0.10 U	0.020 UJ	0.020 U	0.10 U	0.020 UJ	0.020 U	0.020 U	0.020 U
Vinyl Chloride	0.020 U	0.020 U	0.10 U	0.020 UJ	**0.83**	0.10 U	0.020 UJ	**0.38**	**1.1**	**1.2**

TABLE 3-3
QUARTERLY GROUNDWATER SAMPLING EVENT RESULTS - DETECTED ANALYTES ONLY
3rd QUARTER 2014
BOEING AUBURN

Sample ID:	AGW248-1	Anti-foaming agent used AGW248-1	AGW248-3	Dup of AGW248-3 AGW902	AGW248-5	AGW249-1	AGW249-3	AGW249-5	AGW250-1	AGW250-2	AGW250-3
Zone:	Water Table	Water Table	Shallow	Shallow	Shallow	Water Table	Shallow	Shallow	Water Table	Shallow	Int.
SDG:	1501456	1504721	1501456	1501456	1501456	1501457	1501457	1501457	1501455	1501455	1501455
Lab ID:	7590349	7606428	7590351	7590352	7590350	7590354	7590355	7590356	7590333	7590334	7590335
Sample Date:	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/5/2014	9/5/2014	9/5/2014	9/4/2014	9/4/2014	9/4/2014
VOLATILES (µg/L)											
Method SW8260C											
Acetone	25 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	1.0 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroform	1.0 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	2.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	1.0 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	1.0 U	0.2 UJ	0.2 U	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	1.0 U	0.2 UJ	**2.0**	**2.0**	**2.1**	**1.3**	**2.5**	**2.4**	0.2 U	**0.3**	**0.7**
trans-1,2-Dichloroethene	1.0 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	**0.2**	0.2 U	0.2 U	**0.2**
Ethylbenzene	2.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	2.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	1.0 U	**0.2** J	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
Trichloroethene	1.0 U	0.2 UJ	**5.1**	**5.0**	**4.5**	**0.5**	**6.8**	**7.3**	0.2 U	**0.3**	**0.6**
m,p-Xylene	2.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	**3.4**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	2.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	**1.9**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
VOLATILES (µg/L)											
Method 8260C SIM											
Tetrachloroethene	0.10 U	0.020 UJ	**0.11**	**0.11**	**0.11**	0.02 U	**0.12**	**0.11**	0.020 U	0.020 U	0.020 U
Vinyl Chloride	0.10 U	0.020 UJ	**0.18**	**0.18**	**0.17**	**0.12**	**0.16**	**0.14**	0.020 U	**0.033**	**0.052**

TABLE 3-3
QUARTERLY GROUNDWATER SAMPLING EVENT RESULTS - DETECTED ANALYTES ONLY
3rd QUARTER 2014
BOEING AUBURN

Sample ID:	AGW250-4	AGW250-5	AGW250-6	AGW250-7	AGW251-1	AGW251-2	AGW901	AGW251-3	AGW251-4	AGW251-5	AGW251-6	AGW251-7
							Dup of AGW251-2-25					
Zone:	Int.	Int.	Deep	Deep	Water Table	Shallow	Shallow	Int.	Int.	Int.	Deep	Deep
SDG:	1501455	1501455	1501455	1501455	1501420	1501420	1501420	1501420	1501420	1501420	1501420	1501420
Lab ID:	7590336	7590337	7590338	7590339	7590119	7590125	7590124	7590123	7590120	7590121	7590122	7590118
Sample Date:	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014	9/3/2014
VOLATILES (µg/L)												
Method SW8260C												
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	**11**	5.0 U	5.0 U	5.0 U	5.0 U	**14**	**5.9**	**7.9**
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	**0.6**	**0.6**	0.2 U	0.2 U	**0.4**	0.2 U	**0.4**
Chloroform	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
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	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	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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**0.8**	0.2 U	0.2 U	0.2 U	0.2 U	**4.2**	**4.4**	**5.8**	**0.5**	**0.7**	**0.6**	**0.7**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.4**	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	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.7**
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	**4.8**	**0.8**	**0.8**	0.2 U	**1.3**	**2.6**	**0.6**	**0.4**
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	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	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	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	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Vinyl Chloride	**0.19**	0.020 U	0.020 U	0.020 U	**1.5**	**2.4**	**2.5**	**3.0**	**0.11**	0.020 U	**0.066**	**0.029**

U = Indicates the compound was undetected at the reported concentration.
J = Indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ = The analyte was not detected in the sample; the reported sample reporting limit is an estimate.
Bold = Detected compound.