FINAL
INTERIM MEASURES EFFECTIVENESS MONITORING ANNUAL 2015 REPORT

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Nitro, West Virginia

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POTESTA

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1.0 REPORT OVERVIEW

The Site consists of two areas separated by Interstate 64 (I-64): the former Process Area (PA) south of I-64; and the former Wastewater Treatment Area (WTA) north of I-64. The PA also incorporates a 9-acre past disposal area (PDA). Completion of all planned Interim Measures is scheduled for year-end 2016. However, the majority of the functional elements of those Interim Measures, including installation of barrier walls and the majority of the final caps and covers, were completed in early 2015, at which time appropriate portions of the Final Interim Measures (IM) Effectiveness Monitoring Plan (EMP) were initiated. The status of these items and the corresponding timelines going forward for those items are outlined in this IM-EM Annual 2015 Report (IM-EM 2015 Report).

The IM-EMP was prepared pursuant to the Site's Resource Conservation and Recovery Act (RCRA) Corrective Action Permit, I.D. WV039990965 (Permit), Section E.2, "Interim Measures." The IM-EMP objectives, sampling frequency and media analytes, IM inspection frequencies, and reporting requirements were included in the Final Interim Measures Work Plan, dated April 9, 2010 (WP), as approved by letter from Bill Wentworth, United States Environmental Protection Agency (USEPA) Project Manager, to Michael House, Solutia Inc. (Solutia), dated June 29, 2010.

The IM-EMP identified 12 groundwater monitoring well pairs to support Site wide groundwater monitoring. The IM-EMP also identified nine groundwater extraction wells and five piezometer pairs to achieve and monitor an inward hydraulic gradient across the four soil-bentonite barrier wall containment areas.

The IM-EMP was based on the results of a Site-specific groundwater flow model completed in September 2011. The detailed results of the 2011 groundwater model development were documented in a report titled, *Groundwater Model Development and Flow Simulations*, Solutia Nitro Site, Nitro, West Virginia, by GSI Environmental Inc. of Houston, Texas (GSI), dated September 9, 2011 (*GSI GW Model Report*). The IM-EMP was also based on a Site-specific remediation effectiveness evaluation completed in March 2013. The evaluation utilized the 2011 groundwater flow model results and historical groundwater concentration data for Site groundwater constituents. A letter report dated March 6, 2013, detailing the results of the March 2013 remediation effectiveness evaluation was included as Appendix A in the IM-EMP. The groundwater flow model results and the remediation effectiveness evaluation are summarized in this report.

A Quality Assurance Protection Plan (QAPP) applicable to this IM-EM Report was included as Appendix B in the IM-EMP.

2.0 INTERIM MEASURES EFFECTIVENESS MONITORING PLAN DEVELOPMENT

A draft of the IM-EMP was submitted to the USEPA and West Virginia Department of Environmental Protection (WVDEP) (collectively, Agencies) on May 30, 2012. Solutia and the Agencies discussed the May 30, 2012, draft IM-EMP, along with Joel Hennessy's August 24, 2012, comments on the plan, in an August 25, 2012 meeting in the Charleston, West Virginia, offices of Potesta & Associates, Inc. (POTESTA). As a result of that meeting, an agreement was reached on the following objective for a revised draft IM-EMP:

1. *Procure Site groundwater and Site stormwater concentration data that will be sufficient to evaluate the ongoing performance of the installed Interim Measures and, as may be needed, identify enhancements that might be necessary to meet Corrective Action Objectives.*

It was further agreed that utilization of the March 2011 Site-specific groundwater flow model to perform an evaluation of the projected remedial effectiveness of the approved Interim Measures currently being installed would be beneficial in developing the revised IM-EMP to accomplish the newly defined objectives. A revised draft IM-EMP, dated December 30, 2015, has been submitted to the Agencies for review.

3.0 GROUNDWATER FLOW MODEL AND REMEDIATION EFFECTIVENESS EVALUATION

3.1 Site Groundwater Flow Model Development

In May 2010, Solutia commissioned GSI to construct a model to simulate groundwater flow in the area of the Site, including measurement of the groundwater flow effects resulting from construction of planned Interim Measures (i.e., the soil-bentonite barrier walls and various soil caps and covers). The results of this modeling effort were documented in the *GSI GW Model Report*. That report was sent to the Agencies by letter dated October 24, 2011.

3.1.1 Flow Model Conclusions

Key conclusions of the flow model were:

1. Groundwater elevations across the Site outside of the barrier walls of the various containment areas will increase by less than 1 foot maximum, and in most areas, less than

0.5 feet. Construction of the walls is not expected to cause flooding anywhere on or off of the Site.

2. Altered groundwater flow patterns are unlikely to result in any impacts to groundwater that is not already impacted by past Site activities. The altered groundwater flow patterns should not significantly affect the current groundwater quality monitoring well network outside of the immediate area of the barrier walls.

3. Groundwater flow simulations indicate that a total combined pumping rate of 2.4 gallons per minute (gpm) is needed to maintain an inward hydraulic gradient at the four source areas following installation of barrier walls that exhibit a hydraulic conductivity of $\leq 3 \times 10^{-8}$ centimeters per second (cm/s).

4. The simulations indicate that the inward hydraulic gradient can be maintained with pumping only in Zone A[1].

5. A rise in the Kanawha River stage up to 2 feet is unlikely to have a significant impact on Site groundwater flow patterns. A river stage increase of 5 feet would increase hydraulic heads in wells at the Site and move the river/Armour Creek groundwater divide further west. A lowering of the Kanawha River stage would lower hydraulic heads across the Site but would not impact groundwater flow patterns significantly. These scenarios were simulated using the Site flow model and are discussed in detail in the *GSI GW Model Report.*

3.2 Remediation Effectiveness Evaluation

Based on the Agencies' review of the May 30, 2012, draft IM-EMP and discussions during the August 25, 2012, meeting at the POTESTA Charleston office, Solutia commissioned GSI to perform additional groundwater evaluations utilizing the 2011 Site-specific groundwater flow model. Solutia requested that GSI evaluate the effectiveness of the completed Interim Measures by modeling decreases in groundwater constituent concentrations and documenting inward head gradients across the slurry walls. In addition, GSI was requested to develop an optimal array of groundwater constituent concentration wells (monitoring wells) and groundwater monitoring wells for collecting cross-gradient groundwater elevations (piezometers). More specifically, GSI was tasked with determining and explaining:

- features of the Site that affect groundwater flow patterns
- the rationale and optimal location of extraction wells inside the groundwater containment areas
- the number and location of piezometers needed to demonstrate and monitor an inward hydraulic gradient across the slurry walls

[1] To add a margin of safety based on the predicted groundwater flow patterns of the model, containment area groundwater extraction wells were extended into the upper portion of the deeper groundwater (Zone B.)

- the number and location of proposed groundwater monitoring wells that are likely to show the most rapid groundwater constituent of concern (COC) concentration decreases and
- the projected overall effects of the remediation systems on groundwater concentrations

3.2.1 Remediation Effectiveness Report Summary

Several features, including the location of the Site adjacent to the Kanawha River, the higher transmissivity of the lower part of the alluvial aquifer, and the distribution of cross-wall gradients were considered in selecting the locations of wells (for both pumping and monitoring). Hydraulically, cross-wall gradients are higher on the downgradient sides of the barrier walls because the natural groundwater gradient is from the center of the Site to the Kanawha River. As a result of this, the distribution of piezometers and pumping wells are best located along the downgradient side of the slurry walls. The locations of the piezometers are shown on **Figure 1** located in **Appendix A**.

Mass transport modeling using MT3D with the existing MODFLOW groundwater flow model has identified locations where groundwater constituent concentrations are likely to show the largest change over a 3-year period. The trends in constituent concentrations are considered to be the more important factor in demonstrating the effectiveness of the remedial systems instead of the absolute magnitude of concentration changes.

The detailed results of GSI's effectiveness monitoring evaluations are documented in a letter report titled, *Monitoring Well Evaluation for Remediation Effectiveness*, Solutia Nitro Site, Nitro, West Virginia, dated March 6, 2013 (*GSI GW Remediation Effectiveness Report*). The *GSI GW Remediation Effectiveness Report* was attached as Appendix A in the IM-EMP.

4.0 IM-EMP OBJECTIVES

IM-EMP objectives have been developed for Site soils, wastes, stormwater and groundwater. The objectives are premised on the Site remaining industrial or commercial. The IM-EMP is a multi-year monitoring, evaluation and control plan. The purpose of the IM-EMP is to assess the short-term and long-term effectiveness of the Interim Measures in achieving the Site Corrective Action Objectives. As described in detail in the April 9, 2010, Final Interim Measures Work Plan, the objectives of the IM-EMP can be defined in three timeframes:

1. Short-term: Confirm that the Interim Measures are functioning consistent with the design specifications. The key short-term performance standard is the maintenance of, or a trend toward, an inward hydraulic gradient on the downgradient side of the barrier walls.

2. Intermediate-term: Provide sufficient data to evaluate the rate of improvement of Site environmental media relative to the media objectives. The performance standard for this intermediate-term objective is an overall decrease in groundwater concentrations of the COCs at the monitoring locations.

3. Long-term: Collect Site media data to assess the adequacy of the Interim Measures toward achievement and maintenance of the long-term Site media objectives, including long-term protection of human health and the environment. The long-term performance standard is the continued decrease in groundwater concentrations, and eventually, achievement of Site media objectives. Over time, assessment of progress toward achievement of these objectives will be accomplished by long-term monitoring of the condition and functionality of the Interim Measures and the quality of Site stormwater and groundwater. Short-Term and Intermediate/Long-Term IM-EMP objectives were detailed in Table 1 (Appendix A) of the IM-EMP.

5.0 INTERIM MEASURES EFFECTIVENESS MONITORING PLAN – GROUNDWATER MONITORING AND SOURCE CONTAINMENT

As stated in Section 1, several portions of the IM-EMP were initiated in 2015, following completion of the installation of barrier walls and associated low permeability caps. Completion of the planned Interim Measures is scheduled for 2016.

5.1 Site-wide Groundwater Monitoring

Eleven down-gradient, perimeter well pairs were used as IM-EM monitoring wells:

- GW-3(A/B), GW-4(A/B), CMW-11(A/B), and CMW-59(A/B) in the PA
- CMW-52(A/B) in the PDA
- GW-13(A/B), GW-14(A/B), GW-17(A/B), GW-18(A/B), GW-19(A/B), and CMW-41(A/B) in the WTA

Additionally, an up-gradient background groundwater monitoring well pair (MW-1AR and MW-1B) located in the southeastern corner of the Site was included in the monitoring plan.

The groundwater monitoring well pairs are shown on **Figure 1** in **Appendix A**. Specific sampling procedures and protocols applicable to sampling these wells were addressed in the QAPP (Appendix B of the IM-EMP).

5.2 Containment Areas Cross-Barrier Gradient Monitoring and Control

Groundwater from inside of the four soil-bentonite slurry wall containment areas will be extracted to maintain inward head gradients across the barrier walls. The *GSI GW Remediation Effectiveness Report* (Appendix A of the IM-EMP) concluded that this objective can be achieved by installation of nine groundwater extraction wells within the containment areas, designated as follows:

- PA – one new pumping well in the PA (PA-New-1) in combination with existing well GW-1A; (see Appendix A, Figure 4)

- PDA - one new pumping well in the PDA (PDA-New-1) in combination with three existing wells: GW-9A, GW-10A and GW-11A (see Appendix A, Figure 4)
- WTA - two new pumping wells in WTA-West (WTA-New-1 and (WTA-New-2); one new pumping well in WTA-East (WTA-New-3) (see Appendix A, Figure 4)

The total number and location of the cross-barrier gradient monitoring piezometers/monitoring well are:

- PA – PA-PZ-1 (inside) in combination with PA-PZ-2 (outside)
- PDA – PDA-PZ-3 (inside) in combination with PDA-PZ-4 (outside)
  PDA-PZ-5 (inside) in combination with PDA-PZ-6 (outside)
- WTA - East - WTA-PZ-7 (inside) in combination with WTA-PZ-8 (outside)
- WTA - West - WTA-PZ-9 (inside) in combination with existing well GW-13A (outside)

Table 1, Appendix B contains well construction details for the IM-EM extraction wells and piezometers. Drawing 4 (Appendix D of the IM-EMP) included a schematic of construction details for a typical IM-EM extraction well and piezometers. Note that the depth of each new well that will be used for groundwater extraction was extended approximately 10 feet into the upper portion of the deeper aquifer (groundwater Zone B). Groundwater pumps will be set to run continuously at the design flow rates, with periodic adjustments as necessary to achieve an inward cross-barrier hydraulic gradient.

The *GSI GW Model Report* concluded, and the *GSI GW Remediation Effectiveness Report* (Appendix A of the IM-EMP) confirmed, that at equilibrium the nine total extraction wells, pumping at a combined flow rate of 2.4 gpm, will be sufficient to maintain cross-barrier inward hydraulic gradients within the four containment areas. The *GSI GW Remediation Effectiveness Report* also confirmed that the designated piezometers, in combination with one groundwater monitoring well (GW-13A), will be sufficient to monitor the cross-barrier hydraulic gradients in each area.

5.3 Groundwater Treatment

The groundwater extracted from the containment areas (2.4 gpm at equilibrium) to maintain an inward cross-barrier hydraulic gradient will be collected and pumped to a series of treatment systems to remove iron and solids, then to a storage tank and fed through a single, centralized, granular activated carbon (GAC) treatment facility. The storage tank and central GAC treatment facility will be located near the existing gatehouse office area. Bench scale, pilot scale and full scale testing on Site groundwater have demonstrated that GAC treated groundwater is sufficient to meet National Pollutant Discharge Elimination System (NPDES) Permit discharge limits. Design details for the storage and treatment facility will be submitted at a later date. The anticipated start-up of this facility is currently estimated to occur in 2016.

6.0 SAMPLING, INSPECTIONS, AND REPORTING

The IM-EM includes the following periodic inspection, sampling, and reporting requirements.

6.1 Annual Inspection of All Caps and Covers

This IM-EM Report includes annual inspection observations; maintenance, and repair actions taken; any additional actions that are in progress, needed or planned; and hydraulic gradient measurement results.

Final caps and covers have not been completely installed. Low-permeability caps and low-permeability covers were completed during 2014. A permanent, permeable cover was completed in 2015, except for approximately 2½ acres at the Outlet 001 and 003 storm water basins. The final cover was not completed as Solutia was waiting for the vegetation on the remainder of the caps and covers to become established in order to stabilize the final vegetated surface.

As a result, formal quarterly inspections of the final caps and covers have not taken place. During 2016, Solutia anticipates the following activities to be completed:

- Finish installation of final caps and covers consisting mainly of approximately 2½ acres of permanent, permeable cover over the Outlet 001 and 003 storm water basins.
- Evaluate condition of vegetative cover over the final caps and covers areas with the goal of achieving a stable surface.
- Repair areas of minor erosion of the final caps and covers where vegetation is not complete.

Quarterly inspections of the final caps and covers will be completed in 2016.

6.2 Groundwater Pumping and Treatment with Containment Barriers

Groundwater pumping and treatment systems were designed and sourced during 2015. Engineering design of pumping and treatment systems was complicated due to high iron concentrations in groundwater. High iron concentrations necessitated incorporation of additional measures including nitrogen blanketing of extraction wells and iron pretreatment units in three containment areas at the Site. The design of pumping and treatment equipment was completed in 2015. Pumping and treatment equipment was sourced and equipment was delivered during 2015. Installation of pumping and treatment equipment is currently underway and is anticipated to be completed in April 2016. Following the completion, the groundwater pumping and treatment system will be placed into operation.

This will allow removal of groundwater from the containment areas to begin gradient control.

6.3 Cross-barrier Hydraulic Gradient Monitoring

The elevations of phreatic surfaces across the barrier walls are monitored regularly through the use of dedicated pressure transducers. These transducers were placed in each of the designated piezometers in December 2015. The transducers are programmed to collect a single measurement of the hydraulic head within each piezometer every 24 hours which is correlated to the elevation of the phreatic surface within the well bore. Each of the transducers was installed on a measured length of woven wire, stainless cable connected to a well cap at the top of casing allowing the water level measurements to be reported as an elevation above mean sea level. This elevation is referenced to the Site wide survey control network to correlate between each of the piezometers. The following piezometers are fitted with dedicated transducers forming the cross-barrier hydraulic gradient monitoring points:

Process Area	PZ-1 (inside) & PZ-2 (outside)
Past Disposal Area	PZ-3 (inside) & PZ-4 (outside) PZ-5 (inside) & PZ-6 (outside)
Waste Treatment Area (East)	PZ-7 (inside) & PZ-8 (outside)
Waste Treatment Area (West)	PZ-9 (inside) & GW-13A (outside)

Periodically, the transducers are removed from the piezometers and the information stored is downloaded to a laptop computer at the Site. Following the download, the transducer is immediately placed back into the well bore to continue the collection of water level readings. The results are then corrected for barometric pressure since all of the piezometer casings are vented to the atmosphere. Regular barometric pressure readings are recorded for the same period of water level measurements by a single baro-logger, which records the daily changes in barometric pressure. The corrected pressures and corresponding water level elevations are established from post-processing software supplied by the transducer and baro-logger manufacturer. The final downloaded files are then presented graphically in a series of charts, which were prepared using Microsoft Excel. The collected measurements for 2015 are attached in **Charts 1-5**, **Appendix B**, comparing the elevation of the phreatic surface inside the containment areas versus the elevation measured outside the containment wall along the correlated piezometer pair. Three of the initial points indicated on the charts were collated prior to the installation of the transducers. These data were collected by manual means using a static water monitoring probe.

In all cases, with the exception of the Waste Treatment Area (East), the water levels within the containment areas are higher than those outside. This condition is to be expected since the pump and treatment systems were not operational during this monitoring period. Groundwater extraction within the containment areas has not started and, therefore, the water levels within the barriers are static. The similar water levels (inside and outside of the barrier wall) detected at the Waste Treatment Area (East) location cannot be explained at this point in the study. A better

understanding of this situation may be gathered once groundwater extraction within this containment area is started.

6.4 IM-EM Groundwater Monitoring

Discrete groundwater samples were collected quarterly in 2015 and analyzed for Site COCs. Each of the 24 total quarterly groundwater samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) (including select pesticides and herbicides), and metals. Groundwater samples were collected from 16 of the 24 wells and analyzed for 2,3,7,8 tetrachlorodibenzo-para-dioxin (TCDD). Additionally, groundwater samples were collected from the shallow and deep background wells in fourth quarter 2015 for TCDD analysis. Those samples were retained pending the Agencies' authorization of using dissolved phase laboratory analytical methods for TCDD analysis. Agency concurrence with using dissolved phase laboratory analytical methods was received and analysis of the fourth quarter samples is currently underway. Results were not available as of the date of this report.

6.5 IM-EM Groundwater Reporting

The primary Site related COCs identified as a result of the Site environmental assessments are as follows.

CHEMICAL GROUP	CONSTITUENT
Volatile Organic Compounds (VOCs)	1,1-Dichloroethylene Benzene Carbon Tetrachloride Tetrachloroethene Trichloroethene Vinyl Chloride
Semi-volatile Organic Compounds (SVOCs)	Polynuclear Aromatic Hydrocarbons (PAHs) Phthalate Esters
Herbicide	2,4-Dichlorophenoxyacetic Acid (2,4-D)
Doixins/Furans	TCDD

The PA, PDA, and WTA available averages of 2015 analytical results for each primary COC in groundwater were calculated and are reported in **Table 2 (Appendix B)**. Individual well COC results are presented in **Appendix C**. The newly installed (December 2015) shallow background well, MW-1AR, was sampled in fourth quarter 2015 and analytical results from the event are presented in **Table 2 (Appendix B)**. One-half the detection limit was used in the calculations of average concentrations for non-detected COCs.

The PA, PDA, and WTA samples were analyzed for Target Compound List (TCL) VOCs, TCL SVOCs (including select herbicides and pesticides), Target Analyte List (TAL) metals, 2,4-D, and TCDD. Fourth quarter 2015 TCDD laboratory analytical results for the shallow and deep background wells were not available upon completion of this report.

A figure illustrating the approximate locations of the PA, PDA, WTA, and wells and piezometers is presented in **Figure 1, Appendix A**. A table summarizing information for the wells and piezometers located on the Site is presented in **Table 1, Appendix B**. A table listing the primary COCs and available averages of 2015 analytical results are presented in **Table 2, Appendix B**.

6.5.1 Background Wells Groundwater Summary

Shallow (A) Zone

One sample was collected from the shallow zone background well (MW-1AR) in fourth quarter 2015 and submitted for analysis of TCL VOCs, TCL SVOCs, TAL metals, and 2,4-D. Additionally, the fourth quarter 2015 groundwater sample from the one shallow zone background well was collected to be submitted for TCDD analysis. The fourth quarter 2015 groundwater sample was retained pending the Agencies' authorization of using dissolved phase laboratory analytical methods for TCDD analysis. Agency concurrence with using dissolved phase laboratory analytical methods was received and analysis of the fourth quarter sample is currently underway. Results were not available as of the date of this report. Fourth quarter 2015 concentrations are included in **Table 2 (Appendix B)**. One-half the detection limit was used for non-detected COCs in this report.

Four primary COCs were detected at concentrations greater than their laboratory detection limits in the MW-1AR sample. By chemical group, the COCs consisted of one Phthalate Ester and three SVOC-PAHs. TCDD laboratory analytical results for the shallow background well were not available upon completion of this report.

Deep (B) Zone

Four quarterly groundwater samples were collected from the one deep zone background well (MW-1B) in 2015 and submitted for analysis of TCL VOCs, TCL SVOCs, TAL metals, and 2,4-D. Additionally, the fourth quarter 2015 groundwater sample from the one deep zone background well was collected to be submitted for TCDD analysis. The fourth quarter 2015 groundwater sample was retained pending the Agencies' authorization of using dissolved phase laboratory analytical methods for TCDD analysis. Agency concurrence with using dissolved phase laboratory analytical methods was received and analysis of the fourth quarter 2015 sample is currently underway. Results were not available as of the date of this report. The averages of the COCs are included in **Table 2 (Appendix B)**. One-half the detection limit was used for non-detected COCs.

No primary COCs were detected at concentrations greater than their laboratory detection limits in the MW-1B sample. TCDD laboratory analytical results for the deep background well were not available upon completion of this report.

6.5.2 PA Groundwater Summary

Shallow (A) Zone

Four quarterly groundwater samples were collected from the four shallow zone wells (CMW-11A, CMW-59A, GW-3A, and GW-4A) in 2015 and submitted for analysis of TCL VOCs, TCL SVOCs, TAL metals, and 2,4-D. Additionally, four quarterly 2015 groundwater samples from the two shallow zone river boundary wells (GW-3A and GW-4A) were collected to be submitted for TCDD analysis. First through third quarter 2015 groundwater samples were submitted for analysis of TCDD. The fourth quarter 2015 groundwater samples were retained pending the Agencies' authorization of using dissolved phase laboratory analytical methods for TCDD analysis. Agency concurrence with using dissolved phase laboratory analytical methods was received and analysis of the fourth quarter sample is currently underway. Results were not available as of the date of this report. The averages of the COCs are included in **Table 2 (Appendix B)**. One-half the detection limit was used for non-detected COCs.

Nine primary COCs were detected at concentrations greater than their laboratory detection limits in the PA shallow zone. By chemical group, the COCs consisted of four VOCs, one SVOC-Phthalate Ester, two SVOC-PAHs, one Herbicide, and one Dioxin.

A SVOC-PAH, benzo[g,h,i]perylene, was detected at a concentration less than the RL, but greater than MDL, making the reported concentration an approximate value in one of the 16 samples collected from the PA shallow zone. The remaining samples did not contain detectable concentrations of benzo[g,h,i]perylene.

TCDD (Dioxin) was detected at concentrations less than the Minimum Levels (MLs), but greater than Estimated Detection Limits (EDLs), making the reported concentrations approximate values in two of the six groundwater samples. The remaining samples did not contain detectable concentrations of TCDD.

Deep (B) Zone

Four quarterly groundwater samples were collected from the four deep zone wells (CMW-11B, CMW-59B, GW-3B, and GW-4B) in 2015 and submitted for analysis of TCL VOCs, TCL SVOCs, TAL metals, and 2,4-D. Additionally, four quarterly samples from the two deep zone river boundary wells (GW-3B and GW-4B) were collected to be submitted for TCDD analysis. First through third quarter 2015 groundwater samples were submitted for analysis of TCDD. The fourth quarter 2015 groundwater samples were retained pending the Agencies' authorization of using dissolved phase laboratory analytical methods for TCDD analysis. Agency concurrence with using dissolved phase laboratory analytical methods was received and analysis of the fourth quarter sample is currently underway. Results were not available as of the date of this report. The averages of the COCs are included in **Table 2 (Appendix B)**. One-half the detection limit was used for non-detected COCs.

Eight primary COCs were detected at concentrations greater than their laboratory detection limits in the PA deep zone. By chemical group, the COCs consisted of four VOCs, three SVOC-PAHs, and one Herbicide.

A SVOC-PAH, benzo[g,h,i]perylene, was detected at a concentration less than the RL, but greater than MDL, making the reported concentration an approximate value in one of the 16 samples collected from the PA deep zone. The remaining samples did not contain detectable concentrations of benzo[g,h,i]perylene.

TCDD (Dioxin) was not detected at concentrations greater than the EDLs in the PA deep zone samples.

6.5.4 PDA Groundwater Summary

Shallow (A) Zone

Four quarterly groundwater samples were collected from the one PDA shallow zone well (CMW-52A) in 2015 and submitted for analysis of TCL VOCs, TCL SVOCs, TAL metals, and 2,4-D. Additionally, four samples from the one PDA shallow zone river boundary well were collected to be submitted for TCDD analysis. First through third quarter 2015 groundwater samples were submitted for analysis of TCDD. The fourth quarter 2015 groundwater samples were retained pending the Agencies' authorization of using dissolved phase laboratory analytical methods for TCDD analysis. Agency concurrence with using dissolved phase laboratory analytical methods was received and analysis of the fourth quarter sample is currently underway. Results were not available as of the date of this report. The averages of the primary COCs are included in **Table 2 (Appendix B)**. One-half the detection limit was used in calculations for non-detected COCs.

Six primary COCs were detected at concentrations greater than their laboratory detection limits in the PDA shallow zone. By chemical group, the COCs consisted of two VOCs, one SVOC-Phthalate Ester, two SVOC-PAHs, and one Dioxin.

A SVOC-PAH, chrysene, was detected at a concentration less than the RL, but greater than MDL, making the reported concentration an approximate value in one of the four samples collected from the PDA shallow zone. The remaining samples did not contain detectable concentrations of chrysene.

TCDD (Dioxin) was detected at concentrations less than the MLs, but greater than EDLs, making the reported concentrations approximate values in two of the three groundwater samples collected. The remaining samples did not contain detectable concentrations of TCDD.

Deep (B) Zone

Four quarterly groundwater samples were collected from the one PDA deep zone well (CMW-52B) in 2015 and submitted for analysis of TCL VOCs, TCL SVOCs, TAL metals, and 2,4-D.

Additionally, four quarterly samples from the one PDA deep zone river boundary well were collected to be submitted for TCDD analysis. First through third quarter 2015 groundwater samples were submitted for analysis of TCDD. The fourth quarter 2015 groundwater samples were retained pending the Agencies' authorization of using dissolved phase laboratory analytical methods for TCDD analysis. Agency concurrence with using dissolved phase laboratory analytical methods was received and analysis of the fourth quarter sample is currently underway. Results were not available as of the date of this report. The averages of the primary COCs are included in **Table 2 (Appendix B)**. One-half the detection limit was used in calculations for non-detected COCs.

Three primary COCs were detected at concentrations greater than their laboratory detection limits in the PDA deep zone. By chemical group, the COCs consisted of three VOCs.

TCDD was not detected at concentrations greater than the EDLs in the three PDA deep zone samples.

6.5.5 WTA Groundwater Summary

Shallow (A) Zone

Four quarterly groundwater samples were collected from the six WTA shallow zone wells (CMW-41A, GW-13A, GW-14A, GW-17A, GW-18A, and GW-19A) in 2015 and submitted for analysis of TCL VOCs, TCL SVOCs, TAL metals, and 2,4-D. Additionally, four samples from the five WTA shallow zone river boundary wells (GW-13A, GW-14A, GW-17A, GW-18A, and GW-19A) were collected to be submitted for TCDD analysis. First through third quarter 2015 groundwater samples were submitted for analysis of TCDD. The fourth quarter 2015 groundwater samples were retained pending the Agencies' authorization of using dissolved phase laboratory analytical methods for TCDD analysis. Agency concurrence with using dissolved phase laboratory analytical methods was received and analysis of the fourth quarter sample is currently underway. Results were not available as of the date of this report. The averages of the primary COCs are included in **Table 2 (Appendix B)**. One-half the detection limit was used in calculations for non-detected COCs.

Ten primary COCs were detected at concentrations greater than their laboratory detection limits in the WTA shallow zone. By chemical group, the COCs consisted of five VOCs, one Phthalate Ester, two SVOC-PAHs, one Herbicide, and one Dioxin.

A SVOC-PAH, naphthalene, was detected in three of the 24 groundwater samples at concentrations greater than detection limits and one of the 24 groundwater samples at a concentration less than the RL, but greater than its MDL, making the reported concentration an approximate value. Benzo[g,h,i]perylene was detected in one of the 24 groundwater samples at concentrations greater than detection limits and one of the 24 groundwater samples at a concentration less than the RL, but greater than its MDL, making the reported concentration an approximate value.

In two of the three detected samples, TCDD was detected at concentrations less than the MLs, but greater than EDLs, making the reported concentrations approximate values. One of the 15 samples contained a TCDD concentration greater than the EDL and ML. The remaining samples did not contain detectable concentrations of TCDD.

Deep (B) Zone

Four quarterly groundwater samples were collected from the six WTA deep zone wells (CMW-41B, GW-13B, GW-14B, GW-17B, GW-18B, and GW-19B) in 2015 and submitted for analysis of TCL VOCs, TCL SVOCs, TAL metals, and 2,4-D. Additionally, four samples from the five WTA deep zone river boundary wells (GW-13B, GW-14B, GW-17B, GW-18B, and GW-19B) were collected to be submitted for TCDD analysis. First through third quarter 2015 groundwater samples were submitted for analysis of TCDD. The fourth quarter 2015 groundwater samples were retained pending the Agencies' authorization of using dissolved phase laboratory analytical methods for TCDD analysis. Agency concurrence with using dissolved phase laboratory analytical methods was received and analysis of the fourth quarter sample is currently underway. Results were not available as of the date of this report. The averages of the primary COCs are included in **Table 2 (Appendix B)**. One-half the detection limit was used in calculations for non-detected COCs.

Six primary COCs were detected at concentrations greater than their laboratory detection limits in the WTA deep zone. By chemical group, the COCs consisted of four VOCs, one Herbicide, and one Dioxin.

In two of the three detected samples, TCDD was detected at concentrations less than the MLs, but greater than EDLs, making the reported concentrations approximate values. The remaining 13 samples did not contain detectable concentrations of TCDD.

6.6 IM-EM Groundwater Summary Conclusion

According to the groundwater modeling developed for the Site, the barrier walls will have a large effect on the amount of water flowing into the river from the source areas. Even without pumping, the flow from within the barrier walls into the river is reduced by 99.65 percent. Therefore, with completion of the barrier walls, and caps and covers addressing Site groundwater, Dioxin loading to the river from Site groundwater is expected to be almost completely reduced compared to the very low levels that existed prior to the Interim Remedial Measures (IRMs). The average Dioxin concentration in Site groundwater discharging to the river is expected to be well below the Total Maximum Daily Load (TMDL) target of 0.014 picograms per liter (pg/l) for the Kanawha River.

The total effect of the completed engineering controls is a nearly complete reduction in dioxin migration to the River. Significant reductions in the migration of other Site COCs to the river via groundwater will be realized as well.

6.7 Stormwater Monitoring

Three Site stormwater outlets (Outlet 001, Outlet 002(102), and Outlet 003) are monitored on a bi-monthly, monthly, and quarterly basis. Information related to the laboratory analytical results for the stormwater samples are detailed in this section. Summaries of stormwater analytical results are presented in **Table 3** and **Table 4 (Appendix B)**.

6.7.1 Outlet 001

Administrative Order Number 8446 (Order) was issued on November 5, 2015, to allow for the discharge from a pump and treat system of groundwater at the facility, once this system is operational. The Order requires a sampling frequency of once per month for the majority of the parameters, twice per month for TCDD, flow and TSS, and once per quarter for COD. This system is not operational and did not discharge in 2015.

Outlet 001 channels the discharge from a sedimentation basin, which was put in place to help manage stormwater discharges after the former manufacturing facility was demolished. As part of the remedial activities, this basin was modified and the increased depth allowed for a larger volume of water to be retained prior to discharge.

From January through late June of 2015, all results for 2,3,7,8-TCDD samples were reported as not detected. Of the 24 samples collected and analyzed for 2,3,7,8-TCDD in 2015, 12 samples were reported as not detected, and the remaining 12 sample results reported 2,3,7,8-TCDD as being present at low concentrations. Although a final permit limit for 2,3,7,8-TCDD became effective in February of 2015, this was replaced with an Order limit in November of 2015. The annual average for 2,3,7,8-TCDD is below the current Order limit, as have been all individual sample results since the Order came into effect. It is believed that sediments which entered the retention basin for this outlet during the previous construction activities associated with the caps and covers are the reason that 2,3,7,8-TCDD has been detected in the discharges during the last 6 months of 2015. Removing contact between storm water and these sediments, and the elimination of the retention basin associated with the discharge should reduce the concentration of 2,3,7,8-TCDD to below detection

Benchmark Values for total recoverable aluminum and total recoverable iron have also been exceeded; and these exceedances appear to be associated with the concentrations of these metals present in the soil that has been used for cover material. The concentrations of aluminum and iron present in the discharges from this outlet appear to be decreasing over time, as the soil continues to stabilize and the vegetative cover increases. It is highly probable the sediments which have accumulated in the basin are also contributing to the concentrations of aluminum and iron in the discharges from Outlet 001, and eliminating contact of stormwater flows with this material should also lower the concentrations of metals in the discharges. All other parameters are below applicable Benchmark Values.

6.7.2 Outlet 002(102)

For the period August 1, 2014, through June 30, 2017, the permit requires that a stormwater sample be collected from Outlet 002(102) twice per month for flow, TSS and TCDD; once per month for total recoverable iron; and once per quarter for all other parameters.

The remedial activities associated with the installation of caps and covers have greatly improved discharges from Outlet 002(102) in terms of the concentration of TCDD present in stormwater. Prior to the initiation of these remedial activities, it was difficult to obtain consistent and consecutive laboratory results showing that TCDD was not detected in the samples collected at this outlet. The laboratory has reported TCDD as not detected in all samples collected after August of 2014.

The 114 milligrams per liter (mg/L) annual average for total suspended solids (TSS) exceeded the 100 mg/L Benchmark Value for this parameter, as did five of the individual results obtained over the course of the year. These exceedances occurred in the April through September time frame, after off-site soil was used to cover the drainage area, and before the vegetative cover had become established.

Benchmark Values for total recoverable aluminum and total recoverable iron have also been exceeded; and these exceedances appear to be associated with the concentrations of these metals present in the soil that has been used for cover material. The concentrations of aluminum and iron present in the discharges from this outlet appear to be decreasing over time, as the soil continues to stabilize and the vegetative cover increases. All other parameters are below applicable Benchmark Values.

6.7.3 Outlet 003

For the period August 1, 2014, through June 30, 2017, the permit requires that a stormwater sample be collected from Outlet 003 twice per month for TCDD, flow and TSS; once per month for total recoverable iron; and once per quarter for all other parameters.

Prior to the installation of caps and covers, Outlet 003 was a lined open channel that flowed freely with each rain event. As part of the remedial activities, an earthen embankment was installed and the former open channel was transformed into a retention basin.

Prior to the placement of this embankment, laboratory results consistently indicated that 2,3,7,8-TCDD was not detected in any samples collected at this outlet. The annual average for 2,3,7,8-TCDD is above the associated Benchmark Value. Of the 24 samples collected and analyzed for 2,3,7,8-TCDD in 2015, 16 samples were reported as not detected, and 8 sample results have reported 2,3,7,8-TCDD as being present at extremely low concentrations. All eight of the low-level results were reported during the end of June through end of December time frame. It is believed that sediments which entered the retention basin for this outlet during the previous construction activities associated with the caps and covers are the source of these low concentrations. After the embankment has been removed, and storm water associated with this

outlet no longer contacts accumulated sediments in the basin, it is expected that samples for 2,3,7,8-TCDD will again be reported consistently as not detected.

Benchmark Values for total recoverable aluminum and total recoverable iron have also been exceeded; and these exceedances appear to be associated with the concentrations of these metals present in the soil that has been used for cover material. Results from samples collected prior to the introduction of the soil used for cover indicate the concentrations of both metals were below the Benchmark Values. The concentrations of aluminum and iron present in the discharges from this outlet appear to be decreasing over time, as the soil continues to stabilize and the vegetative cover increases. It is highly probable the sediments which have accumulated in the basin are also contributing to the concentrations of aluminum and iron in the discharges from Outlet 003, and eliminating contact of stormwater flows with this material should also lower the concentrations of metals in the discharges. All other parameters are below applicable Benchmark Values.

7.0 CLOSING

This report has been prepared to assist Solutia in evaluating the current environmental conditions at the Site. POTESTA and Solutia mutually devised the scope of this study, which is limited to the specific project, location, and time-period described herein. The report represents POTESTA's understanding of the Site conditions as discernible from information provided by others and obtained by POTESTA using the methods specified. POTESTA assumes no responsibility for information provided or developed by others or for documenting conditions detectable with methods or techniques not specified in the scope of services. In addition, no activity, including sampling, assessment or evaluation of material or substance, may be assumed to be included in this study unless specifically considered in the scope of services and this report. Sketches and maps in this report are included only to aid the reader and should not be considered surveys or engineering studies. If additional data concerning this Site become available, POTESTA should be informed so that we may examine the information and, if necessary, modify this report accordingly.

APPENDIX A

Scale: SEE SCALE BAR | Drawn: LMS
Date: FEBRUARY 15, 2016 | Checked:
Project No. 01-0081-700F | Approved:
G:\Projects\2001\01-0081 Solutia (new)\Map Documents \2015\IM\Map_rev2_15_16.mxd

POTESTA

SOLUTIA INC.
NITRO, WEST VIRGINIA SITE

FINAL INTERIM MEASURES
EFECTIVENESS MONITORING (IM-EM)
MONITORING WELL, EXTRACTION WELL, AND PIEZOMETER LOCATIONS

Figure
1

APPENDIX B

TABLE 1

Well ID	Top of Casing[1,2]	Top of Screen[3]	Bottom of Screen/Well[3]	Bottom of Pump Intake[4]
Extraction Wells				
WTA - East				
WTA-NEW-3	Note 1	570	550	552
WTA - West				
WTA-NEW-1	Note 1	570	550	552
WTA-NEW-2	Note 1	570	550	552
PDA				
PDA-NEW-1	Note 1	570	550	552
GW-9A	Note 1	567	552	554
GW-10A	Note 1	567	552	554
GW-11A	Note 1	570	555	557
PA				
PA-NEW-1	Note 1	570	550	552
GW-1A	Note 1	570	550	552
Piezometers				
WTA - East				
PZ-7 (Inside)	596.56	570	550	
PZ-8 (Outside)	595.76	570	550	
WTA - West				
PZ-9 (Inside)	596.87	570	550	
GW-13A (Outside)	593.5	570	555	
PDA				
PZ-3 (Inside)	596.79	570	550	
PZ-4 (Outside)	596.36	570	550	
PZ-5 (Inside)	597.46	570	550	
PZ-6 (Outside)	596.68	570	550	
PA				
PZ-1 (Inside)	593.48	570	550	
PZ-2 (Outside)	593.7	570	550	
Groundwater Monitoring Wells				
WTA - East				
CMW-41A	596	570	550	
CMW-41B	595.95	555	535	
WTA - West				
GW-13A	593.57	570	555	
GW-13B	593.44	548	533	
GW-14A	595.72	568	553	
GW-14B	595.87	548	533	
GW-17A	588.06	561	546	
GW-17B	588.07	549	534	
GW-18A	591.5	572	557	
GW-18B	592.19	553	538	
GW-19A	591.04	566	551	
GW-19B	592.96	548	533	
PDA				
CMW-52A	596.72	570	550	
CMW-52B	597.04	555	535	
PA				
CMW-11A	592.11	570	550	
CMW-11B	592.33	550	530	
CMW-59A	595	570	550	
CMW-59B	594.61	555	535	
GW-3A	596.31	574	559	
GW-3B	593.63	551	536	
GW-4A	594.68	569	554	
GW-4B	597.76	552	537	
MW-1AR[5]	NE	579	569	
MW-1B	597.34	558	543	

Notes:

1 - Extraction well top of casing elevations will be finalized during installation of groundwater treatment system

2 - Most recent top of Piezometer and Groundwater Well casing elevation measurements - most have been modified to accommodate changes in ground surface elevation during Interim Measures construction

3 - Elevations are approximate and based on well construction information and ground surface elevations at time of well installation or survey

4 - Planned level of pump intake, may be adjusted during operation to optimize system performance

5 - MW-1AR not yet surveyed. Well data presented is based on approximate 594' ground surface elevation

Groundwater Constituents of Concern (COC) Summary

Chemical Group	Name	CAS No.[2]	Background Concentration		Process Area Average[4] Concentration		Past Disposal Area Average Concentration		Waste Treatment Area Average Concentration	
			Shallow[3]	Deep	Shallow	Deep	Shallow	Deep	Shallow	Deep
Micrograms Per Liter										
VOC[1]	1,1-Dichloroethene	75-35-4	*0.50*	*0.50*	19.06	18.41	*100.00*	*2.50*	5.01	0.79
	Benzene	71-43-2	*0.50*	*0.50*	16.85	23.91	32750.00	235.00	24.66	16.65
	Carbon tetrachloride	56-23-5	*0.50*	*0.50*	*14.47*	*14.78*	*100.00*	*2.50*	*4.98*	*0.69*
	Tetrachloroethene	127-18-4	*0.50*	*0.50*	*14.47*	*14.78*	*100.00*	*2.50*	*5.00*	*0.69*
	Trichloroethene	79-01-6	*0.50*	*0.50*	669.56	452.81	*100.00*	22.25	1419.43	9.78
	Vinyl chloride	75-01-4	*0.50*	*0.50*	316.31	458.31	270.00	37.00	52.88	36.11
SVOC[5]-Phthalate Ester	Bis(2-ethylhexyl) phthalate	117-81-7	*3.4*	*4.91*	*4.78*	*4.89*	*15.54*	*4.88*	*4.74*	*4.87*
	Butyl benzyl phthalate	85-68-7	*5*	*4.91*	*4.93*	*4.89*	*16.09*	*4.88*	*4.91*	*4.87*
	Diethyl phthalate	84-66-2	*5*	*4.91*	*4.93*	*4.89*	*16.09*	*4.88*	*4.91*	*4.87*
	Dimethyl phthalate	131-11-3	*5*	*4.91*	*4.93*	*4.89*	*16.09*	*4.88*	*4.91*	*4.87*
	Di-n-butyl phthalate	84-74-2	*5*	*4.91*	*4.93*	*4.89*	*16.09*	*4.88*	*4.91*	*4.87*
	Di-n-octyl phthalate	117-84-0	*5*	*4.91*	*4.93*	*4.89*	*16.09*	*4.88*	*4.91*	*4.87*
	Total SVOC-Phthalate Esters		*28.4*	*29.5*	*29.4*	*29.3*	*96.0*	*29.3*	*29.3*	*29.2*
SVOC-PAH[6]	Acenaphthene	83-32-9	*5*	*4.91*	*4.93*	*4.89*	*16.09*	*4.88*	*4.91*	*4.87*
	Acenaphthylene	208-96-8	*5*	*4.91*	*4.93*	*4.89*	*16.09*	*4.88*	*4.91*	*4.87*
	Anthracene	120-12-7	*5*	*4.91*	*4.93*	*4.89*	*16.09*	*4.88*	*4.91*	*4.87*
	Benzo[a]anthracene	56-55-3	*5*	*4.91*	*4.93*	*4.89*	*16.09*	*4.88*	*4.91*	*4.87*
	Benzo[a]pyrene	50-32-8	*5*	*4.91*	5.23	*4.89*	*16.09*	*4.88*	*4.91*	*4.87*
	Benzo[b]fluoranthene	205-99-2	*5*	*4.91*	*4.93*	*4.89*	*16.09*	*4.88*	*4.91*	*4.87*
	Benzo[k]fluoranthene	207-08-9	*5*	*4.91*	*4.93*	*4.89*	*16.09*	*4.88*	*4.91*	*4.87*
	Benzo[g,h,i]perylene	191-24-2	*1.3*	*4.91*	*4.68*	*4.68*	*16.09*	*4.88*	*4.76*	*4.87*
	Chrysene	218-01-9	*5*	*4.91*	*4.93*	*4.89*	*7.71*	*4.88*	*4.91*	*4.87*
	Dibenz[a,h]anthracene	53-70-3	*1.1*	*4.91*	*4.93*	*4.89*	*16.09*	*4.88*	*4.91*	*4.87*
	Fluoranthene	206-44-0	*5*	*4.91*	*4.93*	*4.89*	*16.09*	*4.88*	*4.91*	*4.87*
	Fluorene	86-73-7	*5*	*4.91*	*4.93*	*4.89*	*16.09*	*4.88*	*4.91*	*4.87*
	Indeno[1,2,3-cd]pyrene	193-39-5	*1.1*	*4.91*	*4.93*	*4.89*	*16.09*	*4.88*	*4.91*	*4.87*
	Naphthalene	91-20-3	*5*	*4.91*	*4.93*	*4.89*	26	*4.88*	6.97	*4.87*
	Phenanthrene	85-01-8	*5*	*4.91*	*4.93*	5.2	*16.09*	*4.88*	*4.91*	*4.87*
	Pyrene	129-00-0	*5*	*4.91*	*4.93*	5.2	*16.09*	*4.88*	*4.91*	*4.87*
	Total SVOC-PAHs		*68.5*	*78.6*	78.9	78.7	259.0	*78.1*	80.5	*77.9*
Herbicide	2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	*0.24*	*0.24*	0.23	0.30	*0.24*	*0.24*	17.02	0.22
Dioxin	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1746-01-6	NA[7]	NA	*6.22E-07*	*1.04E-07*	*1.13E-06*	*9.80E-08*	*2.21E-06*	*1.05E-06*

Notes:

1. Volatile Organic Compound
2. Chemical Abstract Services Number
3. Four quarters of data were not available to calculate average concentrations in the shallow background well. Fourth quarter 2015 concentrations were used for screening purposes.
4. One-half the detection limit was used in the calculated averages for non-detected samples.
5. Semivolatile Organic Compound
6. Polynuclear Aromatic Hydrocarbons
7. Not available upon publication of this report.

COC's not detected greater than detection limits are presented in red italicised font.

COC was detected at a concentration less than the reporting limit, but greater than the method detection limit, making the reported concentration an approximate value (presented in green italicized font).

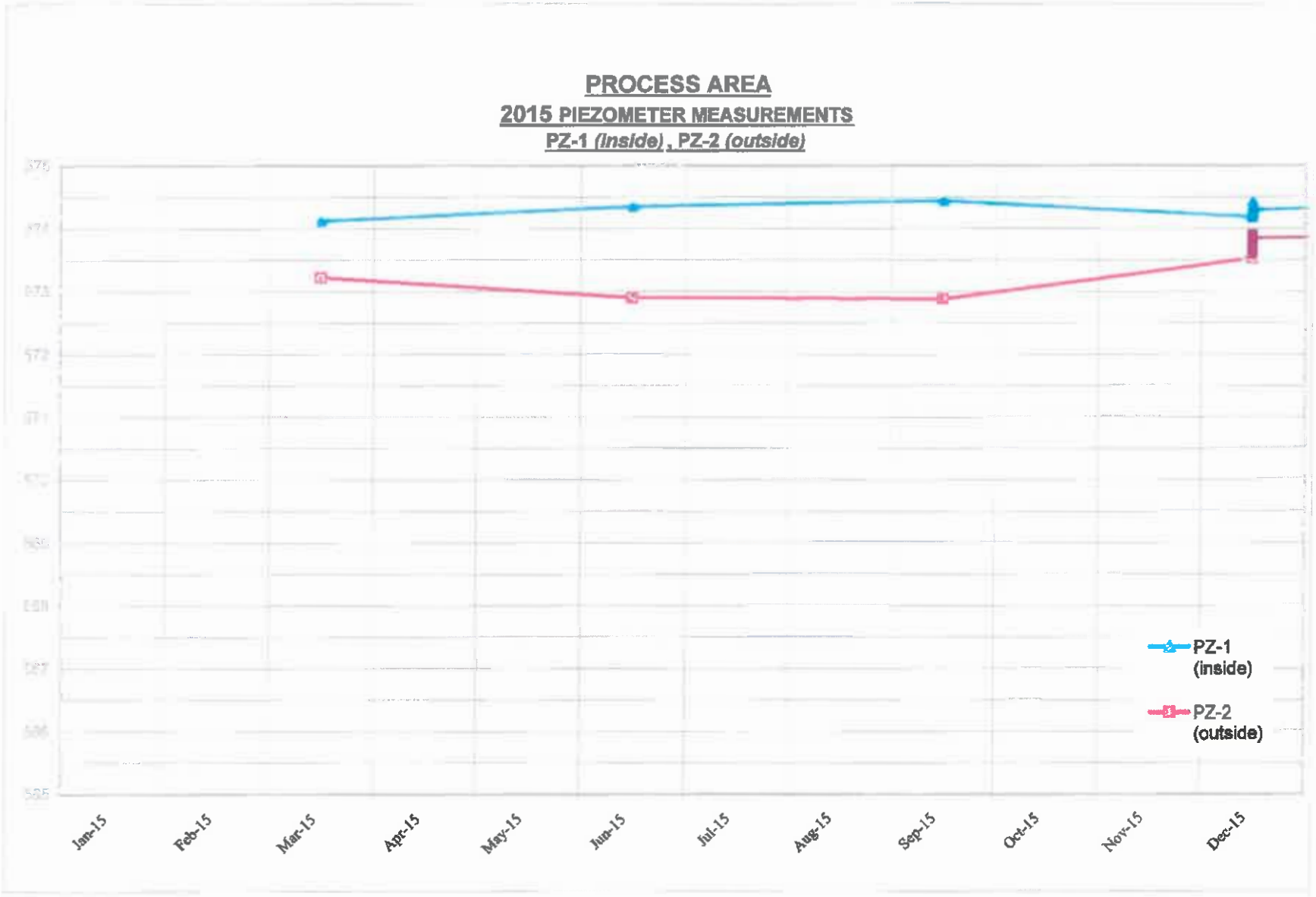
2015 Outlet 001 Analytical Results Summary vs. Order Limits and Benchmarks

SOLUTIA INC. - NITRO, WEST VIRGINIA SITE - WV/NPDES PERMIT NUMBER WV0116181		
Analytical Parameter	**Benchmark or Order Limit**	**2015 AVERAGE RESULTS OUTLET 001**
Flow, Million Gallons per Day (MGD)	N/A	*0.2289*
Total Suspended Solids (TSS), mg/l	100	21.2
2,3,7,8-TCDD Dioxin, pg/l	100	3.99
Biochemical Oxygen Demand-5 Day (BOD_5), mg/l	30.0	3.2
Total Recoverable Aluminum, mg/l	0.75	2.4
Total Recoverable Iron, mg/l	1.5	2.5
Trichloroethylene, ug/l (EPA Method 624)	81	0.067
Vinyl Chloride, ug/l (EPA Method 624)	525	< 0.500
pH, Standard Units (SU)	6 - 9	Within Range
Chemical Oxygen Demand (COD), mg/l	120	15.3
Total Recoverable Arsenic, mg/l	0.01	0.0033
Total Mercury, ng/l	12	0.78
Total Recoverable Nickel, mg/l	0.033	0.0036
Benzene, ug/l	51	< 0.43
Chlorobenzene, ug/l	21000	< 0.26
Ethyl Benzene, ug/l	29000	< 0.33
Toluene, ug/l	200000	< 0.48
1,2-Dichlorobenzene, ug/l (EPA Method 624)	17000	< 0.46
1,3-Dichlorobenzene, ug/l (EPA Method 624)	2600	< 0.48
1,4-Dichlorobenzene, ug/l (EPA Method 624)	2600	< 0.49
Hexachlorobenzene, ug/l (EPA Method 625)	0.0008	< 0.23
Bromodichloromethane, ug/l	17	< 0.44
Chloroform, ug/l	470	< 0.50
Tetrachloroethylene, ug/l (EPA Method 624)	8.8	< 0.74
Total Recoverable Cadmium, mg/l (Method 200.8)	0.0002	< 0.00015
Total Recoverable Manganese, mg/l (Method 200.8)	1	0.230
Acenaphthylene, ug/l (Method 610)	None	< 0.22
Anthracene, ug/l (Method 610)	None	< 0.097
Benzo(a)anthracene, ug/l (Method 610)	0.018	< 0.019
Benzo(a)pyrene, ug/l (Method 610)	0.018	< 0.019
Benzo(b)fluoranthene, ug/l (Method 610)	0.018	< 0.019
Benzo(k)fluoranthene, ug/l (Method 610)	0.018	< 0.019
Chrysene, ug/l (Method 610)	0.018	< 0.019
Fluoranthene, ug/l (Method 610)	370	< 0.029
Fluorene, ug/l (Method 610)	5300	< 0.039
Indeno[1,2,3-cd]pyrene, ug/l (Method 610)	0.018	< 0.039
Napthalene, ug/l (Method 610)	None	< 0.33
Phenanthrene, ug/l (Method 610)	None	< 0.049
Pyrene, ug/l (Method 610)	4000	< 0.029
Phthalate esters, ug/l (Method 625)	2.5	< 1.036
Carbon Tetrachloride, ug/l (EPA Method 624)	0.0044	< 0.33
1,2-Dichloroethane, ug/l (Method 624)	None	< 0.50
1,1-Dichloroethylene, ug/l (Method 624)	3.2	< 0.36
1,1,2,2-Tetrachloroethane, ug/l (EPA Method 624)	11	< 0.62

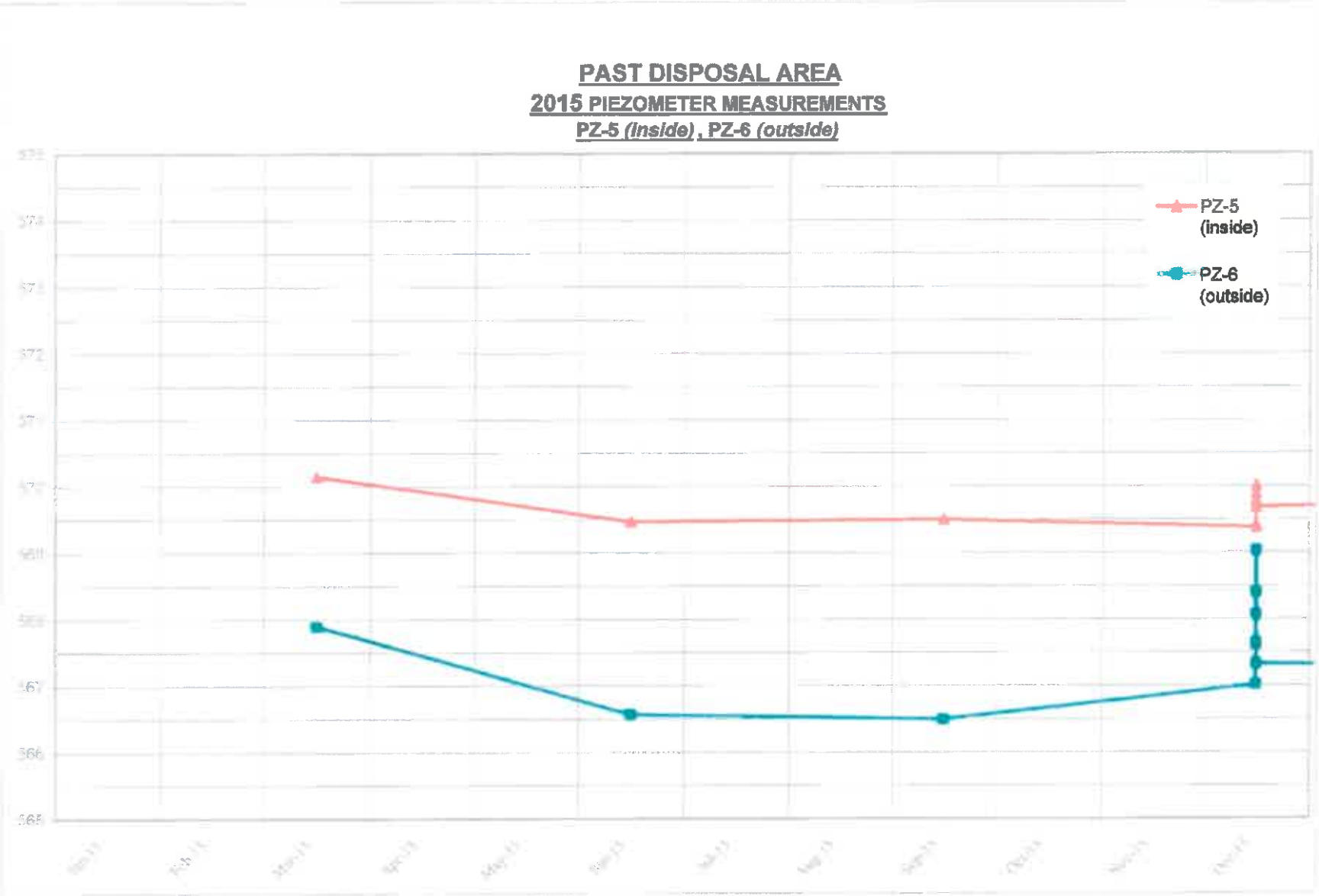
2015 Outlets 002(102) and 003 Analytical Results Summary vs. Benchmarks

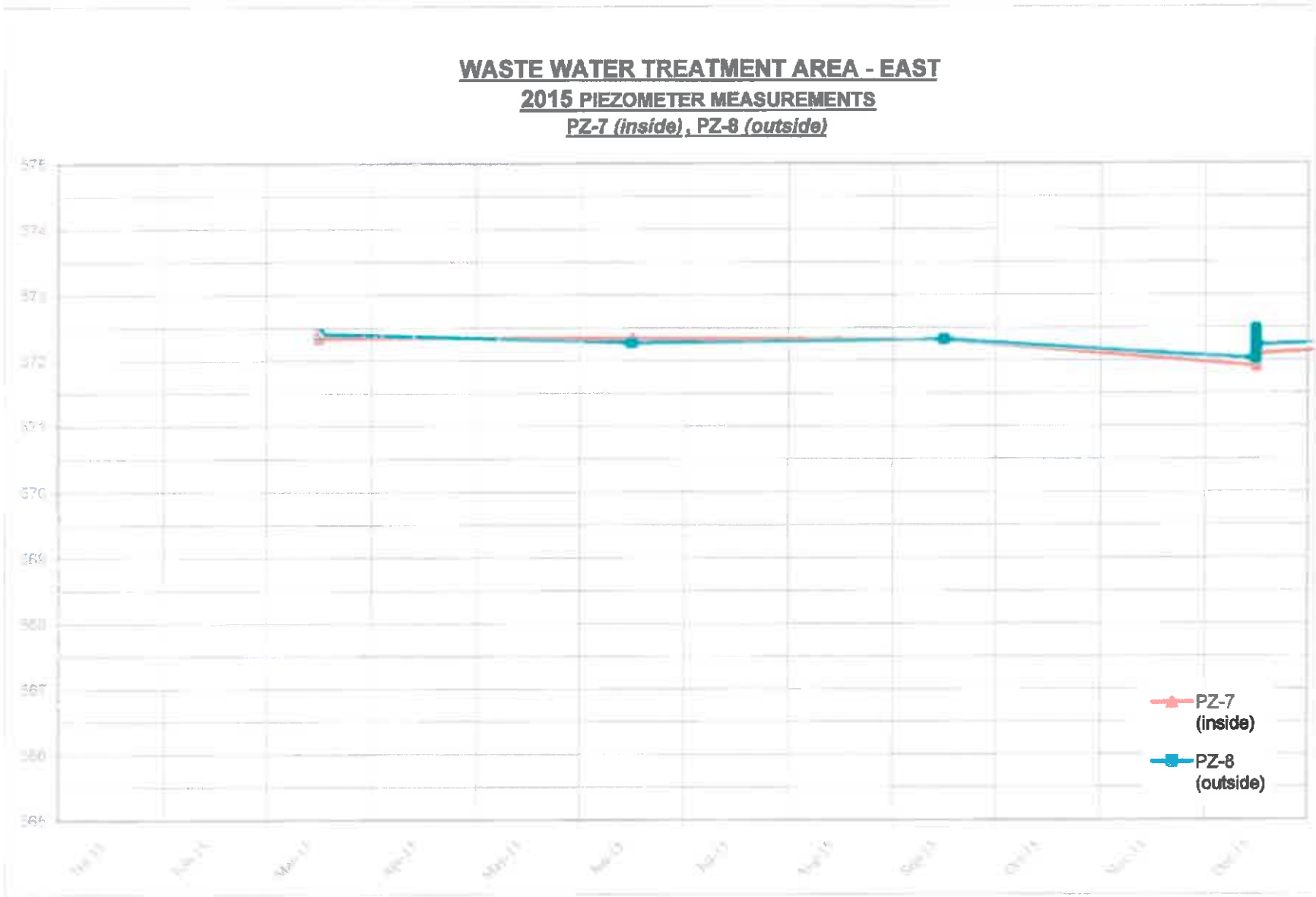
SOLUTIA INC. - NITRO, WEST VIRGINIA SITE - WV/NPDES PERMIT NUMBER WV0116181			
Analytical Parameter	Benchmark	2015 AVERAGE MONITORING	
		Outlet 002(102)	Outlet 003
		Average	Average
Flow, Million Gallons per Day (MGD)	N/A	*0.0118*	*0.0983*
Total Suspended Solids (TSS), mg/l	100	114.2	**51.9**
2,3,7,8-TCDD Dioxin, pg/l	ND [0.014]	**< 0.8736**	0.585
Biochemical Oxygen Demand-5 Day (BOD_5), mg/l	30.0	**7.8**	**2.0**
Total Recoverable Aluminum, mg/l	0.75	4.8	1.6
Total Recoverable Iron, mg/l	1.0	10.1	2.5
Trichloroethylene, ug/l (EPA Method 601)	81.0	**< 0.500**	**< 0.500**
Vinyl Chloride, ug/l (EPA Method 601)	525	**< 0.500**	**< 0.500**
pH, Standard Units (SU)	6 - 9	**Within Range**	**Within Range**
Chemical Oxygen Demand (COD), mg/l	120	**36.5**	**13.0**
Total Recoverable Arsenic, mg/l	0.15	**0.0026**	**0.0021**
Total Mercury, ng/l	1400	**< 82.8**	**< 85.5**
Total Recoverable Nickel, mg/l	1.417	**0.0059**	**0.0023**
Benzene, ug/l	10.0	**< 0.43**	**< 0.43**
Chlorobenzene, ug/l	21000	**< 0.26**	**< 0.26**
Ethyl Benzene, ug/l	29000	**< 0.33**	**< 0.33**
Toluene, ug/l	10000	**< 0.48**	**< 0.48**
1,2-Dichlorobenzene, ug/l (EPA Method 601)	17000	**< 0.50**	**< 0.500**
1,3-Dichlorobenzene, ug/l (EPA Method 601)	2600	**< 0.50**	**< 0.500**
1,4-Dichlorobenzene, ug/l (EPA Method 601)	2600	**< 0.50**	**< 0.500**
Hexachlorobenzene, ug/l (EPA Method 625)	0.00077	**< 0.23**	**< 0.23**
Total Recoverable Copper, mg/l	0.014	**0.0073**	**0.0030**
Total Recoverable Zinc, mg/l	0.117	**0.0108**	**0.0023**
Bromodichloromethane, ug/l	17.0		
Chloroform, ug/l	470		
Tetrachloroethylene, ug/l (EPA Method 624)	None		

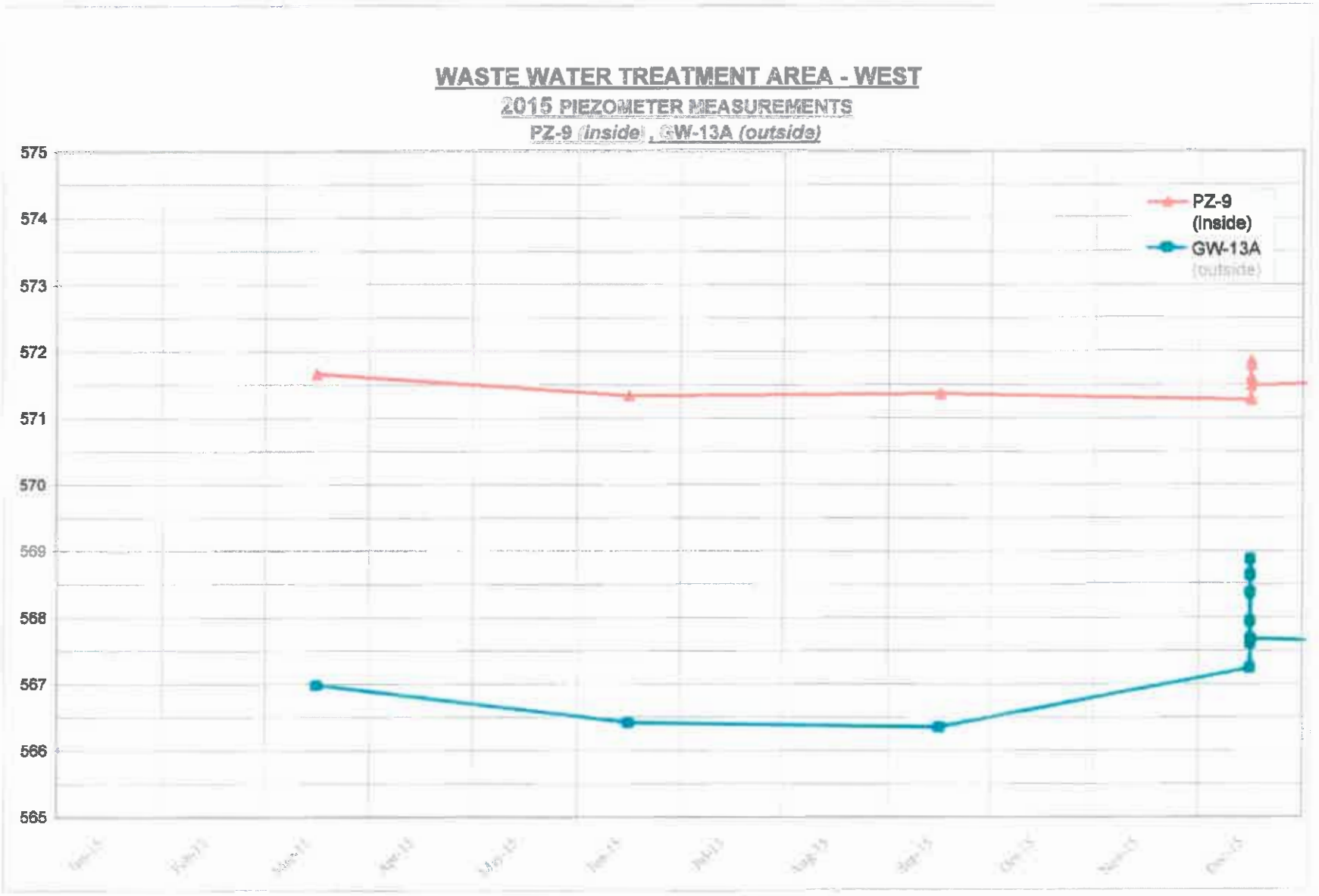
The above spreadsheet contains the average analytical results for storm water samples collected from Outlets 002(102) and 003 during 2015. An average shown in bold font preceded by the less than symbol (<) in the Average column indicate all samples collected for that parameter were reported as Not Detected (ND), and is the average of the Method Detection Limits (MDLs) for that parameter. TCDD samples reported as ND use the Estimated Detection Limit (EDL) for reporting purposes. Sample results with the (<) symbol are below Order Limits or Benchmark Values. Figures in bold font without the (<) symbol indicate averages that are below the Benchmark Values. Averages above applicable Benchmark Values are shown in normal font. Flow does not have a corresponding Benchmark Value. These results are shown in italics. Since pH values should not be averaged, the Average Cell for this parameter indicates whether or not pH field measurements were within the Benchmark Range of 6.0 to 9.0 Standard Units.


PROCESS AREA
2015 PIEZOMETER MEASUREMENTS
PZ-1 (inside), PZ-2 (outside)
PZ-1 (inside)
PZ-2 (outside)
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15
Dec-15

PAST DISPOSAL AREA
2015 PIEZOMETER MEASUREMENTS
PZ-3 (inside), PZ-4 (outside)
PZ-3 (inside)
PZ-4 (outside)


PAST DISPOSAL AREA
2015 PIEZOMETER MEASUREMENTS
PZ-5 (inside), PZ-6 (outside)
PZ-5 (inside)
PZ-6 (outside)


WASTE WATER TREATMENT AREA - EAST
2015 PIEZOMETER MEASUREMENTS
PZ-7 (inside), PZ-8 (outside)
PZ-7 (inside)
PZ-8 (outside)


WASTE WATER TREATMENT AREA - WEST
2015 PIEZOMETER MEASUREMENTS
PZ-9 (inside), GW-13A (outside)
575
574
573
572
571
570
569
568
567
566
565
PZ-9 (inside)
GW-13A (outside)

APPENDIX C

VOCs

Solutia Inc.

2015 Volatile Organic Compound Constituents of Concern

Analytical Data Summary for 1,1-dichloroethene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<5.0000	36.0000	.4100	2.8000	<200.0000	<5.0000	<50.0000	<100.0000	1.2000
2Q15	<5.0000	30.0000	<10.0000	<1.0000	<200.0000	<5.0000	97.0000	<5.0000	<50.0000
3Q15	<5.0000	24.0000	<10.0000	0.5800	<200.0000	<5.0000	4.5000	98.0000	<50.0000
4Q15	<5.0000	33.0000	.8500	<10.0000	<200.0000	<5.0000	<250.0000	<20.0000	<100.0000

Solutia Inc.

2015 Volatile Organic Compound
Constituents of Concern

Analytical Data Summary for 1,1-dichloroethene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A	GW-3B
1Q15	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	.4000	<1.0000	<1.0000	<1.0000	1.5000	.8000
2Q15	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	1.4000	<2.0000
3Q15	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	1.3000	<2.0000
4Q15	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	.3800	<1.0000	<1.0000	<1.0000	<2.0000	<2.0000

Solutia Inc.

2015 Volatile Organic Compound Constituents of Concern

Analytical Data Summary for 1,1-dichloroethene (ug/L)

Quarter	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	8.2000	10.0000		<1.0000
2Q15	<20.0000	8.9000		<1.0000
3Q15	<20.0000	10.0000		<1.0000
4Q15	<20.0000	9.9000	<1.0000	<1.0000

Solutia Inc.

2015 Volatile Organic Compound Constituents of Concern

Analytical Data Summary for Benzene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	3.6000	22.0000	1.9000	12.0000	31000.0000	290.0000	<50.0000	<100.0000	13.0000
2Q15	3.3000	<50.0000	18.0000	0.6600	35000.0000	170.0000	<50.0000	<5.0000	<50.0000
3Q15	3.0000	<50.0000	14.0000	2.3000	31000.0000	260.0000	<5.0000	<100.0000	28.0000
4Q15	3.1000	<50.0000	2.6000	14.0000	34000.0000	220.0000	<250.0000	<20.0000	<100.0000

Solutia Inc.

2015 Volatile Organic Compound
Constituents of Concern

Analytical Data Summary for Benzene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A	GW-3B
1Q15	41.0000	53.0000	37.0000	<1.0000	<1.0000	.8000	<1.0000	6.6000	5.7000	1.3000	1.4000
2Q15	42.0000	86.0000	41.0000	<1.0000	<1.0000	.8200	<1.0000	5.1000	7.8000	2.0000	2.0000
3Q15	42.0000	110.0000	43.0000	<1.0000	<1.0000	.6900	<1.0000	6.5000	7.4000	1.8000	1.7000
4Q15	39.0000	160.0000	54.0000	<1.0000	<1.0000	.7000	<1.0000	7.1000	6.8000	<2.0000	<2.0000

Solutia Inc.

2015 Volatile Organic Compound Constituents of Concern

Analytical Data Summary for Benzene (ug/L)

Quarter	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	23.0000	35.0000		<1.0000
2Q15	23.0000	40.0000		<1.0000
3Q15	17.0000	46.0000		<1.0000
4Q15	<20.0000	46.0000	<1.0000	<1.0000

Solutia Inc.

2015 Volatile Organic Compound Constituents of Concern

Analytical Data Summary for Carbon tetrachloride (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<5.0000	<50.0000	<1.0000	<1.0000	<200.0000	<5.0000	<50.0000	<100.0000	<1.0000
2Q15	<5.0000	<50.0000	<10.0000	<1.0000	<200.0000	<5.0000	<50.0000	<5.0000	<50.0000
3Q15	<5.0000	<50.0000	<10.0000	<1.0000	<200.0000	<5.0000	<5.0000	<100.0000	<50.0000
4Q15	<5.0000	<50.0000	<1.0000	<10.0000	<200.0000	<5.0000	<250.0000	<20.0000	<100.0000

Solutia Inc.

2015 Volatile Organic Compound
Constituents of Concern

Analytical Data Summary for Carbon tetrachloride (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A	GW-3B
1Q15	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<2.0000	<2.0000
2Q15	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<2.0000	<2.0000
3Q15	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<2.0000	<2.0000
4Q15	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<2.0000	<2.0000

Solutia Inc.

2015 Volatile Organic Compound Constituents of Concern

Analytical Data Summary for Carbon tetrachloride (ug/L)

Quarter	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<20.0000	<10.0000		<1.0000
2Q15	<20.0000	<10.0000		<1.0000
3Q15	<20.0000	<10.0000		<1.0000
4Q15	<20.0000	<10.0000	<1.0000	<1.0000

Solutia Inc.

2015 Volatile Organic Compound
Constituents of Concern

Analytical Data Summary for Tetrachloroethene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<5.0000	<50.0000	<1.0000	<1.0000	<200.0000	<5.0000	<50.0000	<100.0000	.8900
2Q15	<5.0000	<50.0000	<10.0000	<1.0000	<200.0000	<5.0000	<50.0000	<5.0000	<50.0000
3Q15	<5.0000	<50.0000	<10.0000	<1.0000	<200.0000	<5.0000	<5.0000	<100.0000	<50.0000
4Q15	<5.0000	<50.0000	<1.0000	<10.0000	<200.0000	<5.0000	<250.0000	<20.0000	<100.0000

Solutia Inc.

2015 Volatile Organic Compound Constituents of Concern

Analytical Data Summary for Tetrachloroethene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A	GW-3B
1Q15	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<2.0000	<2.0000
2Q15	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<2.0000	<2.0000
3Q15	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<2.0000	<2.0000
4Q15	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<2.0000	<2.0000

Solutia Inc.

2015 Volatile Organic Compound Constituents of Concern

Analytical Data Summary for Tetrachloroethene (ug/L)

Quarter	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<20.0000	<10.0000		<1.0000
2Q15	<20.0000	<10.0000		<1.0000
3Q15	<20.0000	<10.0000		<1.0000
4Q15	<20.0000	<10.0000	<1.0000	<1.0000

Solutia Inc.

2015 Volatile Organic Compound Constituents of Concern

Analytical Data Summary for Trichloroethene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	390.0000	31.0000	38.0000	59.0000	<200.0000	28.0000	250.0000	170.0000	4900.0000
2Q15	280.0000	28.0000	91.0000	7.6000	<200.0000	23.0000	450.0000	28.0000	8300.0000
3Q15	280.0000	26.0000	65.0000	86.0000	<200.0000	19.0000	22.0000	430.0000	9300.0000
4Q15	370.0000	30.0000	140.0000	72.0000	<200.0000	19.0000	320.0000	36.0000	11000.0000

Solutia Inc.

2015 Volatile Organic Compound Constituents of Concern

Analytical Data Summary for Trichloroethene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<1.0000	6.3000	<1.0000	<1.0000	<1.0000	15.0000	<1.0000	39.0000	<1.0000	110.0000
2Q15	<1.0000	12.0000	<1.0000	<1.0000	<1.0000	16.0000	<1.0000	24.0000	<1.0000	120.0000
3Q15	<1.0000	13.0000	<1.0000	<1.0000	<1.0000	13.0000	<1.0000	32.0000	<1.0000	120.0000
4Q15	.5100	17.0000	<1.0000	<1.0000	<1.0000	14.0000	<1.0000	29.0000	<1.0000	<2.0000

Solutia Inc.

2015 Volatile Organic Compound Constituents of Concern

Analytical Data Summary for Trichloroethene (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	19.0000	1500.0000	1500.0000		<1.0000
2Q15	24.0000	1600.0000	1600.0000		<1.0000
3Q15	22.0000	2200.0000	1700.0000		<1.0000
4Q15	<2.0000	2700.0000	1600.0000	<1.0000	<1.0000

Solutia Inc.

2015 Volatile Organic Compound Constituents of Concern

Analytical Data Summary for Vinyl chloride (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	53.0000	160.0000	11.0000	280.0000	500.0000	49.0000	180.0000	250.0000	5.0000
2Q15	40.0000	140.0000	490.0000	0.6300	260.0000	35.0000	1700.0000	93.0000	<50.0000
3Q15	33.0000	120.0000	360.0000	7.7000	220.0000	31.0000	140.0000	1700.0000	<50.0000
4Q15	34.0000	140.0000	17.0000	510.0000	<200.0000	33.0000	1800.0000	120.0000	<100.0000

Solutia Inc.

2015 Volatile Organic Compound Constituents of Concern

Analytical Data Summary for Vinyl chloride (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	3.1000	<1.0000	2.7000	<1.0000	<1.0000	64.0000	<1.0000	2.0000	7.5000	50.0000
2Q15	4.4000	<1.0000	2.3000	<1.0000	<1.0000	76.0000	<1.0000	3.5000	8.5000	42.0000
3Q15	6.1000	<1.0000	2.2000	<1.0000	<1.0000	67.0000	<1.0000	3.5000	8.0000	53.0000
4Q15	7.8000	.5000	3.1000	<1.0000	<1.0000	63.0000	.5100	3.1000	8.6000	46.0000

Solutia Inc.

2015 Volatile Organic Compound Constituents of Concern

Analytical Data Summary for Vinyl chloride (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	240.0000	230.0000	740.0000		<1.0000
2Q15	340.0000	210.0000	800.0000		<1.0000
3Q15	370.0000	230.0000	920.0000		<1.0000
4Q15	330.0000	220.0000	870.0000	<1.0000	<1.0000

SVOC-Phthalate Ester

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester
Constituents of Concern

Analytical Data Summary for Bis(2-ethylhexyl) phthalate (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	2.8000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester
Constituents of Concern

Analytical Data Summary for Bis(2-ethylhexyl) phthalate (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	1.6000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	4.2000	<9.6000	2.6000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester
Constituents of Concern

Analytical Data Summary for Bis(2-ethylhexyl) phthalate (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	3.4000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester Constituents of Concern

Analytical Data Summary for Butyl benzyl phthalate (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester
Constituents of Concern

Analytical Data Summary for Butyl benzyl phthalate (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester
Constituents of Concern

Analytical Data Summary for Butyl benzyl phthalate (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	<10.0000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester
Constituents of Concern

Analytical Data Summary for Di-n-butyl phthalate (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester
Constituents of Concern

Analytical Data Summary for Di-n-butyl phthalate (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester
Constituents of Concern

Analytical Data Summary for Di-n-butyl phthalate (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	<10.0000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester
Constituents of Concern

Analytical Data Summary for Di-n-octyl phthalate (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester
Constituents of Concern

Analytical Data Summary for Di-n-octyl phthalate (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester
Constituents of Concern

Analytical Data Summary for Di-n-octyl phthalate (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	<10.0000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester
Constituents of Concern

Analytical Data Summary for Diethyl phthalate (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester
Constituents of Concern

Analytical Data Summary for Diethyl phthalate (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester Constituents of Concern

Analytical Data Summary for Diethyl phthalate (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	<10.0000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester
Constituents of Concern

Analytical Data Summary for Dimethyl phthalate (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester
Constituents of Concern

Analytical Data Summary for Dimethyl phthalate (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Phthalate Ester Constituents of Concern

Analytical Data Summary for Dimethyl phthalate (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	<10.0000	<9.7000

SVOC-PAHs

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Acenaphthene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons
Constituents of Concern

Analytical Data Summary for Acenaphthene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Acenaphthene (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	<10.0000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Acenaphthylene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons
Constituents of Concern

Analytical Data Summary for Acenaphthylene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons
Constituents of Concern

Analytical Data Summary for Acenaphthylene (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	<10.0000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Anthracene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons
Constituents of Concern

Analytical Data Summary for Anthracene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Anthracene (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	<10.0000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Benzo[a]anthracene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons
Constituents of Concern

Analytical Data Summary for Benzo[a]anthracene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Benzo[a]anthracene (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	<10.0000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Benzo[a]pyrene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Benzo[a]pyrene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Benzo[a]pyrene (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	9.9000	<10.0000	<10.0000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Benzo[b]fluoranthene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons
Constituents of Concern

Analytical Data Summary for Benzo[b]fluoranthene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Benzo[b]fluoranthene (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	<10.0000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Benzo[g,h,i]perylene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	1.1000	1.5000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Benzo[g,h,i]perylene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	1.2000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons
Constituents of Concern

Analytical Data Summary for Benzo[g,h,i]perylene (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	1.3000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Benzo[k]fluoranthene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons
Constituents of Concern

Analytical Data Summary for Benzo[k]fluoranthene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Benzo[k]fluoranthene (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	<10.0000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Chrysene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	16.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons
Constituents of Concern

Analytical Data Summary for Chrysene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Chrysene (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	<10.0000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Dibenz(a,h)anthracene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Dibenz(a,h)anthracene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Dibenz(a,h)anthracene (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	1.1000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Fluoranthene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Fluoranthene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Fluoranthene (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	<10.0000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Fluorene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Fluorene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Fluorene (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	<10.0000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Indeno[1,2,3-cd]pyrene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Indeno[1,2,3-cd]pyrene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Indeno[1,2,3-cd]pyrene (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	1.1000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Naphthalene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	25.0000	<9.7000	<9.6000	<9.5000	1.8000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	26.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	26.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	27.0000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons
Constituents of Concern

Analytical Data Summary for Naphthalene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	21.0000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	23.0000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	23.0000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Naphthalene (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	<9.9000	<9.9000	<10.0000	<10.0000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Phenanthrene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Phenanthrene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Phenanthrene (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	9.9000	<9.9000	<10.0000	<10.0000	<9.7000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Pyrene (ug/L)

Quarter	CMW-11A	CMW-11B	CMW-41A	CMW-41B	CMW-52A	CMW-52B	CMW-59A	CMW-59B	GW-13A
1Q15	<9.7000	<9.6000	<10.0000	<9.6000	<10.0000	<9.7000	<9.6000	<9.5000	<9.6000
2Q15	<9.7000	<9.6000	<9.7000	<9.9000	<99.0000	<9.6000	<10.0000	<10.0000	<9.7000
3Q15	<9.9000	<9.6000	<9.7000	<9.7000	<10.0000	<9.8000	<9.9000	<9.7000	<10.0000
4Q15	<9.9000	<9.6000	<9.8000	<9.7000	<9.7000	<9.9000	<9.9000	<9.9000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Pyrene (ug/L)

Quarter	GW-13B	GW-14A	GW-14B	GW-17A	GW-17B	GW-18A	GW-18B	GW-19A	GW-19B	GW-3A
1Q15	<9.6000	<9.8000	<9.6000	<9.6000	<9.5000	<9.9000	<9.9000	<9.8000	<9.7000	<10.0000
2Q15	<9.7000	<9.7000	<9.6000	<10.0000	<9.6000	<9.6000	<10.0000	<9.9000	<9.6000	<10.0000
3Q15	<9.6000	<9.7000	<9.9000	<10.0000	<9.8000	<9.8000	<9.9000	<9.8000	<9.8000	<9.7000
4Q15	<9.7000	<10.0000	<9.8000	<9.7000	<10.0000	<10.0000	<9.7000	<9.9000	<9.7000	<10.0000

Solutia Inc.

2015 Semi-volatile Organic Compound - Polynuclear Aromatic Hydrocarbons Constituents of Concern

Analytical Data Summary for Pyrene (ug/L)

Quarter	GW-3B	GW-4A	GW-4B	MW-1AR	MW-1B
1Q15	<9.9000	<9.6000	<9.8000		<10.0000
2Q15	<9.9000	<10.0000	<10.0000		<10.0000
3Q15	<9.7000	<9.8000	<9.9000		<9.6000
4Q15	9.9000	<9.9000	<10.0000	<10.0000	<9.7000

TCDD

Solutia Inc.
2015 2,3,7,8 tetrachlorodibenzo-para-dioxin (Dioxin)
Constituent of Concern

Area	Well	3Q15[1]	2Q15	1Q15
A (Shallow) Aquifer TCDD Concentration (pg/L[2])				
PA	GW-3A	< 0.182	< 0.151	< 0.0554
	GW-4A	*2.81*	*0.704*	< 0.0522
PDA	CMW-52A	*1.13*	*0.948*	< 4.80
WTA	GW-13A	< 0.382	< 0.345	< 4.73
	GW-14A	*1.98*	**14.6**	< 4.77
	GW-17A	< 2.09	< 0.159	< 0.0674
	GW-18A	< 4.86	< 0.480	< 0.118
	GW-19A	< 1.79	*4.18*	< 4.88
B (Deep) Aquifer TCDD Concentration (pg/L)				
PA	GW-3B	< 0.210	< 0.361	< 0.0832
	GW-4B	< 0.193	< 0.205	< 0.199
PDA	CMW-52B	< 0.127	< 0.195	< 0.0618
WTA	GW-13B	< 0.148	< 0.268	< 0.134
	GW-14B	< 0.130	< 0.183	< 0.0861
	GW-17B	< 2.89	< 0.218	< 0.101
	GW-18B	< 2.29	< 0.207	< 0.0744
	GW-19B	< 3.07	*2.86*	*8.01*

Notes:
1. Third quarter 2015
2. picograms per liter

COC was detected at a concentration less than the reporting limit, but greater than the method detection limit, making the reported concentration an approximate value (presented in green italicized font).

< number = not detected