



August 28, 2021

**VIA ELECTRONIC SUBMISSION**

Ms. Lisa Strobridge  
Professional Geologist  
Department of Environmental Protection  
Southeast Regional Office  
2 E. Main Street  
Norristown, PA 19401

**Re: PADEP Comments  
Public Involvement Remedial Investigation Report  
eFACTS PF No. 780190  
PESRM - Evergreen  
3144 Passyunk Avenue  
City of Philadelphia  
Philadelphia County**

Dear Ms. Strobridge:

**1.0 INTRODUCTION**

This letter is in response to the Pennsylvania Department of Environmental Protection's (PADEP's) June 29, 2021 correspondence and supporting Technical Memo Summary which stated that there were technical deficiencies relating to the Evergreen Resource Management Operations (Evergreen) March 31, 2021 Public Comment Remedial Investigation Report (RIR) for the former Philadelphia Refinery (Site) that were to be addressed to complete the submission. Evergreen has prepared this response letter with supporting attachments to address the PADEP's comments. This response letter amends the previously submitted Public Comment RIR. This response letter and attachments will be posted to Evergreen's website upon submission to the PADEP in the posted location of the Public Comment RIR. PADEP's June 29, 2021 comment letter and June 29, 2021 Technical Memo Summary are already posted to the website in the posted location of the Public Comment RIR. The responses to comments on the website Question and Answer (Q&A) page will be updated accordingly (note that for attachments, the reader will be referred to this posted document versus linking all additional documentation in the Q&A) once the PADEP approves this response.

The responses below are organized in relation to the PADEP comments in the June 29, 2021 Letter of Technical Deficiency. Attachment 1 includes revisions to the specific questions from the Public Involvement RIR noted in the PADEP's deficiency letter, which will be posted to the website and which are supplemented by the detailed information in this document. Attachments 2 through 7 includes supporting information from the Area of Interest (AOI) RIRs, as well as additional information prepared as part of this response letter, as noted below. It should be noted that much of

the information provided below is a summary of detailed technical information provide in the RIRs. Where applicable, Sections of the reports are provided for reference and the RIR documents should be consulted for complete details for these items. Due to the complexity of these materials, Evergreen has provided plain language summaries of these responses at the end of this document.

## **2.0 RESPONSE TO JUNE 29, 2021 – LETTER OF TECHNICAL DEFICIENCY**

This Section presents the PADEP comment followed by Evergreen’s response with references to the Attachments for supporting information, as appropriate.

### **PADEP Comment #1**

*There were multiple public inquiries regarding potential impacts to drinking water supplies, including a question about drinking water intake portals downstream from the site (pages 5, 31, 28-31 42-43, and 76). Evergreen’s response indicated that Pennsylvania Groundwater Information System (PaGWIS) and eMapPA were evaluated for identification of potable supply wells within a one-mile radius of the site. Inquiries with DEP’s Safe Drinking Water Program and New Jersey Department of Environmental Protection (NJDEP) are also needed. On page 29, Evergreen states “The groundwater beneath the site is not allowed to be used for any potable (human consumption) or industrial use...” Evergreen should include reference to the source material to support this statement*

*The response on pages 30-31 includes reference to two USGS reports without summarizing the findings, details on how these reports were used to develop the site conceptual model, or how they will be used in the fate and transport model*

*The response on page 31, 43, and 76 should be moved to Section 2 of the report, and “low probability for potable water supply wells in the area,” “not expected to impact local drinking water supplies,” and “concentrations found in the deep aquifer do not indicate a potential risk to communities in New Jersey...” should be qualified with documentation.*

*Exposure pathway evaluation is a requirement of 25 Pa. Code Section 250.404.*

*( All of the items included in Comment #1 were also included in the PADEP’s June 29, 2021 Act 2 Technical Memo Summary).*

### **Evergreen’s Response to PADEP Comment#1**

Evergreen’s responses to PADEP Comment #1 are presented in three parts based on the range of topics included in PADEP comment #1. The first part of the response presents documentation of the lack of drinking water sources within one mile of the Site, the second part of the response addresses the question concerning the United States Geologic Survey (USGS) reports and the third part addresses the exposure pathway evaluation.

#### **Documentation of No Drinking Water Sources in the Vicinity of the Site**

In each of the approved AOI RIRs, Evergreen documented that no confirmed drinking water supply wells were located within one mile of the Site (as documented in Section 10.9 of the AOI 1 RIR, Section 7.6 of the AOI 2 RIR, Sections 3.5 and 7.6 of the AOI 3 RIR, Section 3.5 and 7.6 of the AOI 5 RIR, Section 9.6 and 10.6 of the AOI 6 RIR, Section 9.7 AOI 7 RIR, Section 9.7 of the AOI 8 RIR and Section 8.3 of the AOI 10 RIR.). Evergreen updated the database (PaGWIS) searches within a mile of the Site in 2016, as documented in the AOI 1, AOI 2, AOI 3, AOI 5, AOI 6, AOI 7 and AOI 10 RIRs, and then again in 2017 for the AOI 8 RIR. Evergreen also completed a secondary search of



the Pennsylvania Department of Environmental Protection (PADEP) eMapPA in 2017. Evergreen completed additional field verification in 2018 as wells as review of City of Philadelphia ordinances in 2019, as summarized in the 2019 groundwater receptor survey included in Attachment 2.

As part of this response, Evergreen completed several activities to provide additional documentation that there are no drinking water sources within one mile of the former Philadelphia Refinery. These activities included; review of the City of Philadelphia’s publicly available information concerning potable drinking water intakes, contacting PADEP’s Safe Drinking Water Program, contacting the City of Philadelphia’s Health Department, contacting the City of Philadelphia Water Department, contacting the City of Philadelphia Department of Parks and Recreation, updating the 2018 groundwater receptor survey with 2021 paGWIS and eMapPA database searches, coordinating with the PADEP to obtain information from the New Jersey Department of Environmental Protection (NJDEP) and providing additional documentation concerning the institutional controls (IC) at the Site prohibiting groundwater use. The following summarizes the results of these activities, which confirmed that there are no drinking water sources with 1 mile of the Site, this finding updates the statement in the 2019 groundwater receptor survey, included in Attachment 2, that identified that the probability of any potable supply wells within one mile of the Site as low.

- As summarized on the Philadelphia Water Department website “Philadelphia’s water comes from the Schuylkill and Delaware rivers...Rivers are surface water supplies. Philadelphia does not use groundwater...PWD has three water intakes: two located on the Schuylkill River and one on the Delaware River” The location of the intakes from the PWD website are shown to the right. Each of these water intakes are located more than one mile from the Site. The PWD website is <https://water.phila.gov/pool/files/2019-pwd-water-quality-report.pdf>,



- Evergreen contacted Mr. Benjamin Greeley, from the PADEP’s Safe Drinking Water Program to obtain additional information to respond to the PADEP’s comment. Mr. Greeley replied on August 16, 2021 that, “There would be no drinking water intakes within a mile of the refinery in south Philadelphia.”.
- Evergreen contacted the Environmental Engineering Department of the Health Department of Philadelphia, Philadelphia Water Department, and Parks and Recreation Department of Philadelphia to obtain additional information to respond to the PADEP’s comment. The departments contacted were not aware of drinking water wells within the City of Philadelphia or they did not respond to the information request.
- Evergreen completed an updated PaGWIS and eMapPA database search in August 2021 which verified the results of the 2019 groundwater receptor survey and confirmed that no groundwater drinking water sources were confirmed within one mile of the Site.
- On May 14, 2021, the PADEP received the information below from Mr. Jeffrey Hoffman, NJ State Geologist, from the NJ DEP’s Geological & Water Survey in response to their

questions about potential impacts from the former Philadelphia Refinery's groundwater contamination on New Jersey water supplies (emphasis added):

*“At this time NJDEP does not consider PFAS contamination at the former Philadelphia Refinery to be a threat to NJ via a flow path through the lower PRM aquifer. This is based on several lines of reasoning:*

*1) The lower PRM is the water table aquifer at the site and is very shallow under the Delaware River. We consider the Delaware River to be recharging this aquifer. As such, it is likely a recharge boundary to any contaminants that might be entering it on the Pa side. Studies conducted in the PRM aquifer system within New Jersey indicate that the Delaware River acts as a significant hydraulic flow boundary limiting any groundwater source area from extending to the Pennsylvania side of the Delaware River. More information is in Pope and Watt, 2005 (<https://pubs.er.usgs.gov/publication/sir20045101>) and Navoy and Carleton, 1995 (<https://www.state.nj.us/dep/njgs/pricelst/greport/gsr38.pdf>).*

*2) That the Delaware River acts as a recharge boundary is supported by aquifer tests in NJ conducted in the lower PRM close to the river. These tests show significant leakage which would not occur if the Delaware River was not a recharge boundary.*

*3) NJDEP delineated well head protection areas for unconfined wells within the Potomac using the methods detailed in Spayd and Johnson, 2003, available at <https://www.state.nj.us/dep/njgs/pricelst/ofreport/ofr03-1.pdf>. These calculated areas represent the source areas to wells based on three time of travel intervals of 2, 5 and 12 years. The delineated source areas indicate that no wells completed within the Potomac Formation in NJ have well head protection areas which extend into Pennsylvania.*

*4) Reported water quality data ([https://www9.state.nj.us/DEP/WaterWatch\\_public/](https://www9.state.nj.us/DEP/WaterWatch_public/)) indicate no contamination is present in supply wells for the National Park Water Department, which are the closest NJ supply wells to the Philadelphia Energy Solutions refinery. The refinery has been in operation for more than 100 years and it appears that no measurable contamination has migrated to these wells. All public supply wells in New Jersey are required to monitor and report water quality data quarterly therefore any potential contaminants would be identified.*

***At this time NJDEP believes the existing hydrogeologic, geologic and water quality data indicate any contaminants that may be in the subsurface at the PES refinery in Philadelphia do not pose a threat to water supply wells in the PRM aquifer system in NJ. “***

- On May7, 2021 the PADEP had a conference call with Steve Maybury of the NJ DEP's Site Remediation Program who shared the following information with the PADEP (emphasis added):
  - There were significant sources of PFAS along the Delaware River in northern Gloucester County, including the Solvay and former Dupont facilities.
  - NJ DEP has inferred that PFAS discharged to surface water was pulled by reverse flow into the aquifer by pumping of supply wells in the area.

- Public supply wells in the area are tested for contaminants, including PFAS.
  - Public and private supply wells impacted by PFAS in the area are treated.
  - **NJ DEP has not attributed this contamination to Pennsylvania sources.**
  - Further information on wellhead protection zones is available on NJ DEP's GIS page.
  - Additional information on public supply well testing is available on the Drinking Water Watch website.
- The First Amendment to the Consent Order and Agreement (COA), signed by the PADEP, Evergreen and Hilco (dated June 18, 2020) for the former Philadelphia Refinery states, “(1) Use of the Property only for commercial or industrial activity, excluding schools, nursing home and other residential residential-style facilities and publicly-accessible recreational areas; and (2) not use groundwater at the Property for any purpose except for sampling, treatment and/or other remedial activities.” This requirement acts as an IC preventing groundwater use at the Site as a drinking water source.

#### Referenced USGS Reports

The question that is addressed on pages 30-31 of the Public Information RIR referenced in the PADEP comment was, “*Have there been any studies on the effect of the pollution of the PRM in the water supply in NJ, as public and private water companies draw water from it and Philadelphia stopped using it in the 1990's because it was too polluted?*” Evergreen's response to this question was, “*Evergreen is not aware of any available studies that evaluate the fate and transport of petroleum hydrocarbon chemicals in groundwater from the Site into New Jersey groundwater.* [NOTE for this document: this first part of Evergreen's original response answers the question. The remainder of the response was provided to give additional information beyond the answer] *Evergreen plans to complete fate and transport modeling with a numerical groundwater model, which will evaluate the potential migration of petroleum-related chemicals from both the water-table aquifer (AOIs 1-10) and lower aquifer. Based on data collected to date, there is no indication that petroleum-related chemicals in groundwater from site operations have or will migrate to New Jersey. There have been several studies of the PRM groundwater unit focusing on groundwater flow and naturally occurring metals, including:*

- *Historical Ground-Water-Flow Patterns and Trends in Iron Concentrations in the Potomac Raritan-Magothy Aquifer System in parts of Philadelphia, Pennsylvania, and Camden and Gloucester Counties, New Jersey, U.S. Geological Survey, Water-Resources Investigations Report 03-4255, - Schreffler, Curtis, L., 2001.*
- *Simulation of Ground-Water Flow in the Potomac-Raritan-Magothy Aquifer System Near the Defense Supply Center Philadelphia, and the Point Breeze Refinery, Southern Philadelphia Pennsylvania, U.S. Geological Survey, Water-Resources Investigations Report 01-4218, Sloto, R. A., 2003.”*

As indicated above in the May 14, 2021 comment from Mr. Hoffman of the NJDEP and the May 7, 2021 comment from Mr. Maybury of the NJDEP, the Site is not a contaminant source for drinking water in New Jersey. Specifically, Mr. Hoffman stated that the, “*PES refinery in Philadelphia do not pose a threat to water supply wells in the PRM aquifer system in NJ.*” Evergreen's mention of the Schreffler, Curtis, 2001 and Sloto, 2003 USGS reports on page 30-31 of the Public Information RIR was intended to provide additional information for the public, but it is not needed to answer the question asked on Page 30-31 in the Public Comment RIR . The PADEP, however, raised a different

question than what was asked in the Q&A relating to the use of these USGS sources in their June 29, 2021 correspondence. Specifically, the PADEP comment asked for, *“details on how these reports were used to develop the site conceptual model, or how they will be used in the fate and transport model”*. The RIRs included specific language how Evergreen used these USGS sources to develop the site conceptual model and how they will be used in the fate and transport model, as summarized below with quotations from the AOI 8 RIR.

The Schreffler, 2001 USGS paper was used to assist in the development of the geological site conceptual model and as a basis for the numerical MODFLOW groundwater model to be included in the Fate and Transport RIR. As stated in Section 2.0 of the AOI 8 RIR, *“In general, the groundwater resources and stratigraphic framework of the PES Complex area have been well-documented through a variety of data sources, including previous groundwater resource investigations dating back to the early 1900’s, state and federal geologic mapping projects, groundwater modeling studies, and consultant characterization and remedial investigation (RI) reports. In large part, available well and test boring logs from previous onsite and local subsurface investigations were the most valuable resource in evaluating the local subsurface stratigraphy. Subsurface information from approximately 750 well and test boring logs was considered in the evaluation of regional conditions for this report. A database of stratigraphic “picks” on interpreted vertical lithologic unit boundaries (and, where possible, geologic formations) was also developed and includes identified records of boreholes completed to bedrock at and near the PES Complex. For the most part, these records include “deep” wells drilled at the PES Complex, the former Defense Supply Center Philadelphia (DSCP) property, and other local properties where investigations have occurred (e.g., CSX, former ARCO, Steen, PGW Passyunk Facility, and Verizon SDWC properties). The purpose of developing and maintaining a “picks” database is to archive geologic interpretations of individual borehole lithologies to bedrock, so that stratigraphic profiles could be developed for use in this and future Act 2 submissions, and so the Schreffler lithologic model (Schreffler, 2001) being used as a basis for MODFLOW modeling could be refined and updated for site-specific use at the PES Complex. It is Evergreen’s intention to continue updating the site-specific geologic model as additional subsurface information is collected through remedial investigation activities under Act 2.”*

The AOI 8 RIR, Section 2.2.1. 3, further details the development of the geologic site conceptual model utilizing information from Schreffler, 2001, *“Many studies of the Atlantic Coastal Plain near the PES Complex have identified the presence of Cretaceous-age sediments in the subsurface. Figure 2-3 (note Figure 2-3 is included in the AOI 8 RIR) depicts the subcrop areas of Cretaceous geologic units across the Delaware River in New Jersey. Extrapolation of the units into Pennsylvania has not been formally completed. These are the oldest sedimentary deposits in the area and are configured in a southeasterly-thickening wedge, overlain by the much younger Quaternary deposits described above and underlain by Piedmont crystalline bedrock. Greenman et al. (1961) detailed the age, character, configuration, and hydraulic properties of these deposits in southeastern Pennsylvania. At the time of that publication, the Cretaceous deposits were assigned primarily to the Raritan Formation and noted to represent three distinct, fining-upward cycles of non-marine sedimentation. Similarities to lithologic sequences identified on borehole logs were correlated to previously-identified strata at their type locality in New Jersey, where the deposits are much thicker and more easily distinguished. Other similar, near time-equivalent geologic formations of Cretaceous age were elsewhere identified in Maryland and Delaware (Jordan, 1962), and geologists began wholly referring to the Cretaceous deposits in south Philadelphia as the PRM aquifer system with focus on hydrostratigraphy. In south Philadelphia, the PRM aquifer system is subdivided into six geologic units in order of increasing age (Schreffler, 2001):*

- upper clay unit

- upper sand unit
- middle clay unit
- middle sand unit
- lower clay unit
- lower sand unit”

Section 9.8 of the AOI 8 RIR, further details how Sloto, 2012 (which is an update of the Sloto, 2003 reference) was planned to be used to support the development of the MODFLOW model for the fate and transport analysis, “*It is understood that the findings and conclusions of this and other AOI-specific, qualitative assessments at the PES Complex will ultimately be used in a site-wide MODFLOW and transport model (e.g., MT3DMS model) to quantitatively predict contaminant fate and transport, including comprehensive simulations that will address the future extent of contamination and cumulative mass loading to potential receptors. Under Act 2 and in consideration of the One Cleanup Program, this level of analysis is warranted, in general, to assess risk posed by PES Complex COCs to potential receptors, to assess plume stability, to assist in selection of remedial alternatives to assist in the process of attaining remediation standards, and to estimate time to project closure. Model predictions will be used to support informed decision making during Cleanup Plan activities.*

*The model will focus on groundwater movement within the Coastal Plain of south Philadelphia, Pennsylvania, near the PES Complex. The model domain was adopted from an earlier USGS model developed by Schreffler (2001), later updated by Sloto (2012), and has been updated by Stantec to better represent site-specific groundwater flow conditions beneath the PES Complex. Updates to the Schreffler (2001) and Sloto (2012) models have included layer refinement, grid discretization, model layer hydraulic property refinement using site-specific testing data, recent topography, recent Schuylkill River bathymetry, and the inclusion of drains and pumping wells to simulate water withdrawals near the PES Complex. .... Evergreen anticipates that a comprehensive fate and transport assessment based on the numerical modeling results will be submitted to PADEP in a separate Act 2 submission.”*

Similar descriptions of how these USGS sources were used in the development of the geologic site conceptual model and/or basis for the planned MODFLOW model to be included in the Fate and Transport RIR are referenced in the AOI 1 RIR (Sections 5.3.2, 5.4), AOI 2 RIR (Section 2.2), AOI 3 RIR (Section 2.2), AOI 4 RIR (Section 5.32, .4 and 10.11), AOI 5 RIR (Section 2.2), AOI 6 RIR (Section 2.2. 2.2.13, 10.7), AOI 7 RIR (Section 2.2. 2.2.13, 10.7) and AOI 9 RIR (Section 2.2).

#### Pathway Identification Evaluation

As documented by the information included in the RIRs and further supported by the information included in this response document, there are no confirmed drinking water sources within one mile of the Site. In accordance with 25 Pa. Code Section 250.404 :

*“(a) The person shall use Department-approved EPA or ASTM guidance to identify any potential current and future exposure pathways for both human receptors and environmental receptors identified in § 250.402 (relating to human health and environmental protection goals).*

*(b) The person shall summarize pathways for current land use and any probable future land use separately in the site-specific remedial investigation report.*

*(d) Prior to performing a risk assessment as required in § 250.405 (relating to when to perform a risk assessment), the person may take into account the effect of engineering and institutional controls in eliminating pathways identified in subSection (b) and include this evaluation in the remedial investigation report.”*

In addition, 25 Pa. Code Section 250.408a states, “The level of detail in investigation, and the selected methods and analyses, that may include models, shall sufficiently define the rate of movement and the present and future extent and fate of contaminants, to ensure continued attainment of the remediation standard.” Evergreen plans to complete the Fate and Transport RIR in accordance with both 25 Pa. Code Section 250.404 and 25 Pa. Code Section 250.408a to complete the remedial investigation for the Site.

### **PADEP Comment #2**

*Inquiries related to the adequacy of groundwater delineation were not sufficiently addressed (pages 7 and 8). Evergreen’s response did not directly address the concern that groundwater contamination was not delineated. Although the commentators did not specify examples of inadequate delineation, Evergreen should provide a more in-depth narrative and figures documenting the completeness of the groundwater characterization. Contaminant delineation is required by 25 Pa. Code Sections 250.408(b)(2) and 250.408(e).*

*(PADEP Comment #2 was also included in the PADEP’s June 29, 2021 Act 2 Technical Memo Summary).*

### **Evergreen Response to Comment #2**

To provide additional context for Evergreen’s response, the two specification citations included in PADEP Comment #2 are provided below.

- 25 Pa. Code Sections 250.408(b)(2) which describes the requirements for the Remedial Investigation Report, (2) “The vertical and horizontal extent of contamination above the selected standard within each medium of concern.”
- 25 Pa. Code Section 250.408(e), which states, “If groundwater is determined to be a medium of concern, the site characterization shall characterize the effects of a release on groundwater to adequately determine how naturally occurring physical and geochemical characteristics define the movement of groundwater and contaminants beneath the surface, including the delineation of the position of aquifers, as well as geologic units which inhibit groundwater flow. When appropriate, the characterization shall consider the heterogeneity and anisotropy of aquifer materials based on hydraulic conductivity values (measured or published), and the effect of local and regional groundwater flow directions and influence from pumping wells. Defining the horizontal extent of concentrations of regulated substances above the standard shall require more than one round of groundwater sampling from properly constructed and developed monitoring wells taken with a sufficient number of days apart to yield independently valid results. When characterizing the vertical extent of groundwater contamination, the person shall perform more than one round of groundwater sampling and shall consider the specific gravity of the regulated substances identified in the groundwater in the site, and the potential for naturally occurring or induced downward vertical hydraulic gradients. When characterizing the vertical extent of groundwater contamination, properly constructed monitoring wells or nested monitoring wells should be utilized to focus groundwater sampling in zones of potential contaminant accumulation (that is, directly above a confining layer) and

*sampling shall be taken with a sufficient number of days apart to yield independently valid results.”*

As stated in the response to PADEP Comment #1, the Fate and Transport RIR will complete the remedial investigation process for the Site, including documentation of groundwater delineation. This approach to complete the remedial investigation, including delineation, was developed in concert with the PADEP and EPA due the complexity of Site conditions, as documented by the PADEP in the June 29, 2021 Technical Memo Summary, *“The commentator is concerned with Evergreen breaking its remedial investigation reporting into multiple documents. This arrangement was agreed to by DEP and EPA, and it was formalized in the 2003, 2012, and 2020 consent order and agreements. Given the size and complexity of the site, the remediator and the regulatory agencies believed it was impractical to compile all site characterization work into a single RIR. The agencies would also be unable to satisfactorily review the information in the 90-day statutory period”*.

The intent to complete the groundwater delineation and document it in the Fate and Transport RIR is included in the following approved RIRs: AOI 1 RIR (Section 10.10), AOI 2 RIR (Section 6.0), AOI 3 RIR (Section 6.0), AOI 5 RIR (Section 6.0), AOI 6 RIR (Section 10.0), AOI 7 RIR (Section 10.0) and AOI 8 (Section 9.8).

Evergreen prepared this response to PADEP Comment #2 summarizing groundwater characterization in the RIRs in relation to the non-residential groundwater MSCs, with the intent to complete demonstration of groundwater delineation in the Fate and Transport RIR. Therefore, for this response to PADEP Comment #2, Evergreen has summarized the following information for the approved RIR:

- The contaminants of concern (COC) in groundwater above the PADEP non-residential MSC.
- The COCs above the non-residential MSCs at the downgradient boundary for each specific AOI. The figures included in Attachment 3 also illustrate that the majority of the COCs were detected in at least one location along the boundary of most AOIs which will be further evaluated in the future Fate and Transport RIR.
- References to the tables and figures in the approved Act 2 reports which depict the groundwater analytical data. The figures referenced from the approved Act 2 reports are included in Attachment 3.

To further support Evergreen’s response to Comment #2, Evergreen created four new databox figures for the shallow aquifer in AOI 1, AOI 4, AOI 6 and AOI 8, similar to those submitted for the other AOIs. Due to the groundwater data density and complexity in AOI 1, AOI 4, AOI 6 and AOI 8, those RIRs had included isopleths of the COCs which had the largest footprint (i.e. Benzene) since all the other groundwater data within each respective AOI above the groundwater MSC were contained within the footprint of these isopleths.

The following tables were included in each RIR and summarized the groundwater data collected over time for each COC. These tables compared each COC to the non-residential groundwater MSC and indicated when the detected concentration was above the groundwater MSC. As a reminder, the data for lower aquifer wells (AOI 11) within each AOI was included in their respective RIRs.

- AOI 1 RIR – Tables 4-2, 4-3
- AOI 2 RIR – Table 6
- AOI 3 RIR– Table 6
- AOI 4 RIR– Tables 4-2, 4-3

- AOI 5 RIR– Table 7
- AOI 6 RIR– Tables 7a, 7b, and 8
- AOI 7 RIR– Tables 7a, 7b, and 8
- AOI 8 RIR – Table 4-2, 4-3, and 7-8
- AOI 9 RIR– Table 6
- AOI 10 RIR – Tables 10, 11, and 15

The following figures were included in each RIR depicting the groundwater data. These figures compared each COC to the non-residential groundwater MSC and indicated when the detected concentration was above the groundwater MSC. This list also includes the four new databox figures created as part of this response and are noted accordingly. Evergreen included figures for AOI 4 and AOI 9, and created a new databox figure for AOI 4, to provide a full set of figures with this response, even though the AOI 4 and AOI 9 RIRs were not approved (due to the need for additional offsite wells) and Addendums to these RIRs are going to be submitted on September 30, 2021, which will include a summary of offsite conditions. All the figures referenced below are included in Attachment 3.

- AOI 1 RIR- Figures 5-3 to 5-7 (isopleth), Figures 10-2 to 10-5 (isopleth), Figure 10-6 (data box). In addition, new Figures 1A – 1C (data box) were created for this response and are included in Attachment 3.
- AOI 2 RIR- Figures 7 to 10 (isopleth). In addition, new Figures 12A to 12B (data box) were created for this response and are included in Attachment 3.
- AOI 3 RIR- Figures 7 to 12 (isopleth). In addition, new Figure 14 (data box) was created for this response and are included in Attachment 3.
- AOI 4 RIR - Figures 5-1 to 5-8 (isopleth), Figures 10-1 to 10-6 (isopleth) and Figure 10-7 (data box). In addition, new Figures 2A to 2B (data box) were created for this response and are included in Attachment 3.
- AOI 5 RIR- Figures 6 to 7 (isopleth) and Figure 10 (data box)
- AOI 6 RIR- Figures 13 to 15 (isopleth), Figure 19 (isopleth), Figure 20 (color dot). In addition, new Figures 3 (data box) were created for this response and are included in Attachment 3.
- AOI 7 RIR- Figures 13 to 15 (isopleth) and Figures 19 to 20 (data box).
- AOI 8 RIR- Figures 5-1 to 5-9 (isopleth), Figures 9-1 to 9-2 (isopleth), Figure 9-3 (color dot), Figure 9-4 (data box). In addition, new Figures 4A to 4B (data box) were created for this response and are included in Attachment 3.
- AOI 9 RIR- Figures 7 to 15 (isopleth), Figure 17 (data box), Figure I-1 (data box), Figures I-2 to I-6 (isopleth).
- AOI 10 RIR - Figures 5 to 6 (isopleth) and Figure 10 (data box).

In addition, a summary of the groundwater characterization for each AOI, except AOI 4 and AOI 9, is provided below in narrative format. Evergreen is planning to submit RIR Addendums for AOI 4 and



AOI 9 on September 30, 2021 that will present updated information concerning groundwater characterization. All the figures referenced in this summary are included in Attachment 3. It should be noted that the discussion below includes information presented in the RIRs. Any changes in the site conceptual model since then or data collected since the RIR submittals are not part of this response and will be included in future Act 2 submittals. Data discussed below includes the COCs summarized in each respective RIR.

### **AOI 1**

The following includes summaries from each of the RIRs related to groundwater delineation by Area of Interest (AOI).

**Unconfined Aquifer-** In the AOI 1 RIR (2017), the unconfined aquifer had the following COCs present at concentrations above the groundwater MSCs; 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC), benzene, ethylbenzene, methyl tertiary butyl ether (MTBE), toluene, 1,2,4-trimethylbenzene (1,2,4-TMB), 1,3,5-trimethylbenzene (1,3,5-TMB), total xylenes (xylenes), benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzene (g,h,i) perylene, chrysene, naphthalene, and lead. The following describes the characterization of each of these COCs generally in the downgradient groundwater flow direction and in relation to Site boundaries, based on the data included in the AOI 1 RIR. Section 5.2.2.1 and 9.2.2 as well as Figures 5-4 and 5-5 from the AOI 1 RIR describe groundwater flow direction as influenced by localized mounding effects, the presence of the 26<sup>th</sup> street sewer and other site features be generally towards the southeast and with a small component of flow to the north towards Belmont Terminal with variations due to mounding effects. Due to the amount of shallow aquifer wells in AOI 1, the RIR originally including isopleths for the COCs with the largest footprint (benzene and MTBE). However, in response to PADEP comment #2, three new databox figures were created for shallow groundwater in AOI 1 which present the groundwater data from the AOI 1 RIR for each COC; Figure 1A (AOI 1 Belmont Terminal), Figure 1B (AOI 1 North), and Figure 1C (AOI 1 South), in addition to Figures 10.2 through 10.5 from the AOI 1 RIR. All figures mentioned below are included in Attachment 3.

- EDB and EDC were detected above the groundwater MSC in the unconfined aquifer, as described in Sections 4.3 and 10.5.1 of the RIR, Table 4-2 of the RIR and shown on Figure 1A, 1B and 1C in Attachment 3. Wells with non-detectable concentrations of EDB and EDC are present along the southeast and northern boundaries as shown on Figures 1A, 1B and 1C.
- Benzene was detected above groundwater MSC in the unconfined aquifer, as described in Sections 4.3, 10.5.1 and 10.6 of the RIR, Table 4-2 of the RIR. Benzene detections exceed the MSC at or beyond the majority of the Site boundaries AOI 1. Figures 10-2 and 10-3 of the RIR depict benzene concentrations from different sampling events, supporting the statement that the benzene plume is stable to decreasing at the site boundaries. Benzene is also shown on Figure 1A, 1B and 1C in Attachment 3. The 26<sup>th</sup> Street total fluids remedial system is in the area with the highest noted exceedances.
- Ethylbenzene was detected above groundwater MSC in the unconfined aquifer, as described in Sections 4.3 and 10.5.1 of the RIR, Table 4-2 of the RIR and shown on Figure 1A, 1B and 1C in Attachment 3. Ethylbenzene detections exceed the MSC at or beyond the northeastern and eastern boundary of AOI 1. Wells with non-detectable concentrations are present along the southeast boundary as shown on Figures 1A, 1B and 1C.

- MTBE was detected above groundwater MSC in the shallow aquifer, as described in Section 4.3 10.5.1 and 10.7 of the RIR, Table 4-2 of the RIR, Figure 10-4 and 10-5 of the RIR and Figure 1A, 1B and 1C in Attachment 3. MTBE detections exceed the MSC at or beyond the northern and eastern boundary of AOI 1. As described in Section 10.7 in the RIR, MTBE trends were increasing along northern boundary, but were decreasing internal to AOI 1 and along other Site boundaries.
- Toluene was detected above groundwater MSC in the unconfined aquifer, as described in Sections 4.3 and 10.5.1 of the RIR, Table 4-2 of the RIR and shown on Figure 1A, 1B and 1C in Attachment 3. Toluene detections exceed the MSC at or beyond the northeastern downgradient boundary of AOI 1 as shown on Figures 1A, 1B and 1C. Wells with non-detectable concentrations are present along the southeast and eastern boundary as shown on Figures 1A, 1B and 1C.
- 1,2,4-TMB was detected above groundwater MSC in the unconfined aquifer, as described in Sections 4.3 and 10.5.1 of the RIR, Table 4-2 of the RIR and shown on Figure 1A, 1B and 1C in Attachment 3. 1,2,4-TMB detections are present above the MSC at or beyond the northeastern and eastern downgradient boundary of AOI 1, as shown on Figures 1A, 1B and 1C. Wells with non-detectable concentrations are present along the southeast boundary as shown on Figures 1A, 1B and 1C.
- 1,3,5-TMB was detected above groundwater MSC in the unconfined aquifer, as described in Sections 4.3 and 10.5.1 of the RIR, Table 4-2 of the RIR and shown on Figure 1A, 1B and 1C in Attachment 3. 1,3,5, TMB detections are present above the MSC at or beyond the northeastern and eastern boundary of AOI 1, as shown on Figures 1A, 1B and 1C. Wells with non-detectable concentrations are present along the southeast boundary as shown on Figures 1A, 1B and 1C.
- Xylene was detected above groundwater MSC in the unconfined aquifer, as described in Sections 4.3 and 10.5.1 of the RIR, Table 4-2 of the RIR and shown on Figure 1A, 1B and 1C in Attachment 3. Xylene detections are not present above the MSC along the boundaries of AOI 1.
- Benzo(a)pyrene was detected above groundwater MSC in the unconfined aquifer, as described in Sections 4.3 and 10.5.1 of the RIR, Table 4-2 of the RIR and shown on Figure 1A, 1B and 1C in Attachment 3. Benzo(a)pyrene was detected at or beyond the northeastern and eastern boundary of AOI 1. Wells with non-detectable concentrations are present along the southeast boundary as shown on Figures 1A, 1B and 1C.
- Benzo(b)fluoranthene and benzene (g,h,i) perylene were detected above groundwater MSC in the unconfined aquifer, as described in Sections 4.3 and 10.5.1 of the RIR, Table 4-2 of the RIR and shown on Figure 1A, 1B and 1C in Attachment 3. Benzo(b)fluoranthene and benzene (g,h,i) perylene were detected at or beyond the northeastern downgradient boundary of AOI 1. Wells with non-detectable concentrations of Benzo(b)fluoranthene and benzene (g,h,i) perylene are present along the southeast boundary as shown on Figures 1A, 1B and 1C.
- Chrysene was detected above groundwater MSC in the unconfined aquifer, as described in Sections 4.3 and 10.5.1 of the RIR, Table 4-2 of the RIR and shown on Figure 1A, 1B and 1C

in Attachment 3. Chrysene was detected above the MSC along the northeastern downgradient boundary of AOI 1. Wells with non-detectable concentrations of Chrysene are present along the southeast boundary as shown on Figures 1A, 1B and 1C.

- Naphthalene was detected above groundwater MSC in the unconfined aquifer, as described in Sections 4.3 and 10.5.1 of the RIR, Table 4-2 of the RIR and shown on Figure 1A, 1B and 1C in Attachment 3. Naphthalene detections are present above the MSC at or beyond the downgradient property boundaries along AOI-1.
- Lead was detected above groundwater MSC in the unconfined aquifer, as described in Sections 4.3 and 10.5.1 of the RIR, Table 4-2 of the RIR and shown on Figure 1A, 1B and 1C in Attachment 3. Lead detections are present above the MSC at or beyond the northeastern and eastern boundary of AOI 1. Wells with non-detectable concentrations of Lead are present along the southeast boundary as shown on Figures 1A, 1B and 1C.

**Lower Aquifer-** In the lower aquifer of AOI 1, benzene, MTBE, and lead were detected over the groundwater MSCs, as presented in Section 4.3 and 10.5.2 of the AOI 1 RIR, Table 4-3 and Figure 10-6. Section 5.2.3.1 and Figures 5-6 and 5-7 from the AOI 1 RIR show groundwater flow direction to be toward the south-southeast in the lower aquifer. All exceedances for AOI 1 lower aquifer can be found on AOI 1 RIR, Figure 10-6, which is included in Attachment 3. The following provides additional detail for the COCs detected over the groundwater MSC in the lower aquifer.

- Benzene was detected above the groundwater MSC in the lower aquifer, as described in Section 4.3 of the RIR, Table 4-3 of the RIR, and shown on Figure 10-6 in Attachment 3. Benzene detections are present above the MSCs at or beyond the downgradient boundary of AOI 1.
- MTBE was detected above the groundwater MSC in the lower aquifer, as described in Section 4.3 of the RIR, Table 4-3 of the RIR, and shown on Figure 10-6 in Attachment 3. MTBE detections are present above the MSCs at the downgradient boundary of AOI 1. MTBE has not been reported above the MSC in downgradient offsite deep well, ARCO-1D.
- Lead was detected above the groundwater MSC in one lower aquifer well during one sampling event, as described in Section 4.3 of the RIR, Table 4-3 of the RIR, and shown on Figure 10-6 in Attachment 3. Lead has not been reported above the MSC in downgradient offsite deep well, ARCO-1D.

## AOI 2

**Unconfined Aquifer-** In the AOI 2 RIR (2017), the unconfined aquifer had the following COCs present at concentrations above the groundwater MSCs; benzene, 1,2,4-TMB, 1,3,5-TMB, ethylbenzene, toluene, xylenes, EDB, MTBE, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, naphthalene, pyrene, phenanthrene, and lead as presented in Sections 5.4 and 11 of the RIR, Table 6 of the RIR and Figure 12A of Attachment 3. Sections 2.2.2 and 3.5, as well as Figures 7 and 8 of the RIR (included in Attachment 3), describe unconfined aquifer groundwater flow direction to the south in AOI 2 RIR. . There is potential for northerly flow in the shallow aquifer based on groundwater mounding in the northern portion of AOI 2. AOI 2 is bounded to the south by AOI 3, to the east by AOI 1, to the north by PGW and to the west by the river. The following describes how each of the COCs were characterized in relation to Site boundaries based on the data included in the AOI 2 RIR.

- The downgradient boundary of AOI 2 is generally the upgradient boundary of AOI-3 where there are exceedances of similar compounds as those detected in AOI 2.
- Although flow is generally to the south (towards AOI 3), there are exceedances of select COCs observed in the norther boundary wells including benzene, 1,2,4-TMB, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene and lead. The area to the north of the facility across Passyunk Avenue is the PGW property which is another Act 2 site with similar COCs to AOI 2. Wells along the river in the northern portion of AOI 2 have at least one detection of benzene, 1,2,4-TMB, 1,3,5-TMB, ethylbenzene, toluene, xylenes, EDB, MTBE, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, naphthalene, pyrene, phenanthrene, and lead present at concentrations above the MSCs. In the southern portion of AOI 2, however, the majority of the wells do not have concentrations above the MSCs.

**Lower Aquifer-** In the AOI 2 RIR (2017), the deep aquifer had the following COCs present at concentrations above the groundwater MSCs; benzene, 1,2,4 TMB, benzo(a)pyrene, benzo(b)fluoranthene, naphthalene, and lead as described in Sections 5.4 and 11 of the AOI 2 RIR. Sections 2.2.3 and 3.5 of the AOI 2 RIR, as well as Figures 9 and 10 of the RIR (Figures 9 and 10 are included in Attachment 3), describe deep aquifer groundwater flow direction towards the south in AOI 2. The following provides additional details concerning these COCs in the lower aquifer.

- Benzene, 1,2,4-TMB, benzo(a)pyrene, and benzo(b)fluoranthene exceedances of the groundwater MSCs are only identified in the most upgradient well along the PGW border and are delineated in the down gradient groundwater flow direction (south) by other AOI deep wells, as shown on Figure 12B.
- Lead exceedances of the groundwater MSC were only reported during one event in 2012 as shown on Figure 12B. Also note the deep aquifer flow direction is to the south from AOI 2 towards AOI 3 where lead is delineated in well S-280D, which is shown on Figure 14 of the AOI 3 RIR and included in Attachment 3.

### AOI 3

**Unconfined Aquifer-** In the AOI 3 RIR, the unconfined aquifer had the following COCs present at concentrations above the groundwater MSCs; benzene, 1,2,4 TMB, EDB, MTBE, toluene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, naphthalene, and lead as presented in Sections 5.4 and 11, Table 6 and Figure 14 of the AOI 3 RIR. Figure 14 is included in Attachment 3. Additionally, the overlying perched aquifer had the following COCs present at concentrations above the groundwater MSCs; benzene, EDB, MTBE, Toluene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, and lead as seen in Sections 5.4 and 11, Table 6 and Figure 14 of the AOI 3 RIR. Sections 2.2.3 and 11, as well as Figures 9 and 10 of the RIR (Figures 9 and 10 are included in Attachment 3) describe unconfined aquifer flow in multiple directions. However, AOI-3 is bounded almost entirely by other AOI's with similar COC concentrations. The exception is the southern boundary and northwest corner of AOI 3. Perched water is believed to vertically infiltrate unconfined aquifer in AOI 3.

The following describes the AOI 3 groundwater data in more detail:

- The unconfined aquifer wells along the southern property boundary, which is not in a clear downgradient direction, has had exceedances of MTBE (one occasion in 2009) and lead (one occasion in 2014) as shown on Figure 14 of the AOI 3 RIR. The unconfined aquifer wells in the northwest corner have exceedances of benzene and toluene (and one single exceedance in one well of benzene(g,h,i) perylene); however, subsequent to the RIR it was determined that a release had occurred in this area after 2012.
- All perched aquifer wells that had exceedances of the groundwater MSCs for benzene, EDB, MTBE, toluene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, and lead are delineated in the downgradient flow direction by S-5, as shown on Figure 14 from the AOI 3 RIR.

**Lower Aquifer-** In the AOI 3 RIR (2017), the lower aquifer had the following COCs present at concentrations above the groundwater MSCs; benzene, EDB, MTBE, and lead as presented in Sections 5.4 and 11, Table 6 and Figure 14 of the AOI 3 RIR. Figure 14 is included in Attachment 3. Section 2.2.3 of the RIR, as well as Figures 11 and 12 describe lower aquifer groundwater flow to be towards the south in AOI 3. The following describes these data in more detail:

- All deep aquifer wells with exceedances of benzene, EDB, MTBE, and lead are not delineated in the down gradient groundwater flow direction (south) within AOI 3, as shown on Figure 14. However, AOI 5 is downgradient of AOI 3 in the lower aquifer, which is discussed further below.

**AOI 4** – Since the AOI 4 RIR was not approved and Evergreen is planning to submit the AOI 4 Addendum with additional characterization data on September 30, 2021, a summary of the AOI 4-RIR groundwater data is not included in this response.

## **AOI 5**

**Unconfined Aquifer-** In the AOI 5 RIR, the unconfined aquifer had the following COCs present at concentrations above the groundwater MSCs; benzene, 1,2,4 TMB, benzo(a)pyrene, benzo(b)fluoranthene, benzo(a)anthracene, benzo(g,h,i)perylene, chrysene, pyrene, and lead as presented in Sections 5.7, 7.3, and 11, Table 7 and Figure 10 of the AOI 5 RIR. Figure 10 is included in Attachment 3. Sections 2.2.2 and 11 of the RIR, as well as Figures 6 and 7 of the RIR (included in Attachment 3) describe unconfined aquifer flow to the south towards the Schuylkill River. The following describes these data in more detail:

- Benzene, and 1,2,4-TMB were detected above groundwater MSC, as shown on Figure 10 of the RIR (Attachment 3). All detections are delineated below MSC in southwest, southern, and southeastern boundary wells of AOI 5 as shown on Figure 10 of the RIR.
- Benzo(a)pyrene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(a)anthracene, benzo(g,h,i)perylene, chrysene, pyrene were detected above groundwater MSC at low concentrations along the downgradient boundary with the river, as shown on Figure 10 of the RIR in Attachment 3.
- Lead was detected at a few locations above the groundwater MSC along the downgradient boundary with the river, as shown on Figure 10 of the RIR in Attachment 3.

**Lower Aquifer-** In the AOI 5 RIR, the lower aquifer had the following COCs present at concentrations above the groundwater MSCs, MTBE and lead, as described in Sections 5.7, 7.3, and 11, Table 7, and Figure 10 of the AOI 5 RIR. Section 2.2.3 of the AOI 5 RIR describes deep aquifer groundwater flow direction towards the southwest in AOI 5. The following provides additional details concerning these COCs in the lower aquifer.

- MTBE exceedances of the groundwater MSC are only identified in the most upgradient well along the AOI 6 and AOI 3 border and are delineated in the down gradient groundwater flow direction (southwest), as shown on Figure 10.
- Lead was detected above the groundwater MSC in two lower aquifer wells during one sampling event, as shown on Figure 10 in Attachment 3.

## AOI 6

**Unconfined Aquifer-** In the AOI 6 RIR, the unconfined aquifer had the following COCs present at concentrations above the groundwater MSCs; benzene, EDB, toluene, 1,2,4 TMB, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, naphthalene, and lead as presented in Sections 4.3 and 13.2, Tables 7a and 8, Figure 19 of the AOI 3 RIR and Figure 3 from the AOI 6 RIR. Due to the amount of shallow aquifer wells in AOI 6, the RIR originally including an isopleth for the COC with the largest footprint, which included benzene (Figure 19). However, in response to PADEP Comment #2, one new databox figure (Figure 3 [AOI 6]) was created for shallow groundwater in AOI 6, which presents the groundwater data from the AOI 6 RIR for each COC. Figure 3 and Figure 19 from the AOI 6 RIR are included in Attachment 3. Section 5.2.2.1, as well as Figure 14 of the RIR (Figure 14 is included in Attachment 3) describe unconfined aquifer flow to the southwest towards the Schuylkill River in AOI 6. The following describes these data in more detail:

- All unconfined aquifer wells consisting of exceedances for EDB, MTBE, and naphthalene are delineated to down gradient flow direction and by wells below MSC results (B-43, B-169, URS-5, B-39, B-164, URS-4, and URS-1) as presented in Table 7a of the AOI 6 RIR and shown on Figure 3 in Attachment 3.
- Benzene, toluene, benzo(a)pyrene, benzo(g,h,i)perylene, 1,2,4-TMB, benzo(b)fluoranthene, chrysene, and lead were all detected above MSC in at least one unconfined aquifer well along the southeastern boundary of AOI 6 as presented in Table 7a of the AOI 6 RIR and shown on Figure 3 in Attachment 3.

**Lower Aquifer-** In the AOI 6 RIR, the downgradient lower aquifer well had no COCs above MSCs as presented in Sections 5.4 and 11, Tables 7b and 8, and Figure 20 of the AOI 6 RIR with the exception of lead. Figure 20 is included in Attachment 3. Section 5.2.3, as well as Figure 15 of the RIR, describe lower aquifer groundwater flow to be towards the southwest in AOI 6.

## AOI 7

**Unconfined Aquifer-** In the AOI 7 RIR, the unconfined aquifer had the following COCs present at concentrations above the groundwater MSCs; benzene, EDB, toluene, 1,2,4 TMB, xylenes, benzo(a)pyrene, benzo(b)fluoranthene, benzo(a)anthracene, benzo(g,h,i)perylene, chrysene,

naphthalene, pyrene, and lead as presented in Sections 4.3, 9.3.2, and 13.2, Tables 7a and 8, and Figure 19 of the AOI 7 RIR. Figure 19 is included in Attachment 3. Sections 5.2.2.1 and 9.2.2 of the RIR, as well as Figures 13 and 14 of the RIR (Figures 13 and 14 are included in Attachment 3) describe unconfined aquifer flow to the west and north towards the Schuylkill River in AOI 7. The following describes these data in more detail:

According to Section 4.3 of the AOI 7 RIR, it states the following regarding well delineation in the unconfined aquifer within AOI 7:

- “The groundwater MSC exceedances in C-57 (benzo(a)pyrene, benzo(g,h,i)perylene) and C-131 ((benzo(a)pyrene ) are delineated by non-detect concentrations in C-51, C-157, and C-163.”
- “The groundwater exceedances in C-146, C-150, C-152, C-161, and C-169 are associated with the 3-separator remedial system.”
- “The groundwater exceedance in C-62 (benzo(a)pyrene ) is delineated by non-detect concentrations in C-106 and C-170.”
- The remaining wells (C-104, C-127, C-145, and C-168) had at least one groundwater MSC exceedances of benzene, EDB, toluene, 1,2,4 TMB, xylenes, benzo(a)pyrene, benzo(b)fluoranthene, benzo(a)anthracene, benzo(g,h,i)perylene, chrysene, naphthalene, pyrene and lead are located in close proximity to the bulkhead and do not have any wells that can delineate those concentrations. The sample in C-168 was a groundwater sample collected beneath LNAPL.”

**Lower Aquifer-** In the AOI 7 RIR, the lower aquifer had no COCs above MSC as presented in Sections 4.3, 9.3.2 and 13.2.2, Tables 7b and 8, and Figure 20 of the AOI 7 RIR. Figure 20 is included in Attachment 3. Section 5.2.3, as well as Figure 15 of the RIR (Figure 15 included in Attachment 3), describe lower aquifer groundwater flow to be towards the southwest in AOI 7.

## AOI 8

**Unconfined Aquifer-** In the AOI 8 RIR, the unconfined aquifer had the following comprehensive list COCs present at concentrations above the groundwater MSCs; 1,2,4-TMB, 1,3,5-TMB, 2-methylnaphthalene, anthracene, benzene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl)phthalate, chrysene, ethylbenzene, dibenz(a,h)anthracene, fluoranthene, indeno(1,2,3-c,d)pyrene, lead, naphthalene, nickel, pyrene, toluene, vanadium, chromium cobalt, arsenic and zinc, as presented in Sections 9.3 and discussed in Sections 9.4, 9.5, and 9.6, and 13.2.1, Table 4-2 and Figures 9-1 to 9-3 of the AOI 5 RIR. Due to the amount of unconfined aquifer wells in AOI 8, the RIR originally including isopleths for the COCs with for benzene and lead (Figures 9-1 through 9-3). However, in response to PADEP Comment #2, two new databox figures (Figures 4A [AOI 8 North] and 4B [AOI 8 South]) were created for shallow groundwater in AOI 8, which present the groundwater data from the AOI 8 RIR for each COC. Figures 4A and 4B, as well as Figure 9-1 through 9-3 from the AOI 8 RIR, are included in Attachment 3. Sections 5.2.2.1 and 13.2.1 of the RIR, as well as Figures 5-2 through 5-4 of the RIR (Figures 5-2 through 5-4 are included in Attachment 3) describe unconfined aquifer flow in great detail, but can be summarized as generally mounding in the center of AOI 8 and radially outwards to the west towards the Schuylkill River (majority of flow) and east towards the highway. There are also components of flow from PGW toward AOI-8 and toward the river and a shallow gradient observed at the northern boundary of AOI 8 observed with northerly and southerly flows. The following describes these data in more detail:

- 1,2,4-TMB, benzene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, cobalt, indeno(1,2,3-c,d)pyrene, lead, naphthalene, arsenic, chromium cobalt and vanadium were detected at least one time over the groundwater MSC along the north/northeastern site boundary, but the northwest corner of the northern boundary, along the river, had wells (N-99, N-100 and N-1) with detections of all COCs below the groundwater MSCs.
- Anthracene, benzene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, bis(2-ethylhexyl)phthalate, chrysene, dibenz(a,h)anthracene, fluoranthene, indeno(1,2,3-c,d)pyrene, lead, pyrene, vanadium, and zinc were detected at least one time along the western border with the river generally at low concentrations.
- 1,2,4-TMB, 2-methylnaphthalene, anthracene, benzene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl)phthalate, chrysene, ethylbenzene, indeno(1,2,3-c,d)pyrene, lead, naphthalene, pyrene, vanadium were detected at least one time in the wells along the south border of AOI 8 (which borders PGW, which is another Act 2 site with similar COCs). The majority of these detections were in well N-82 which is delineated to the west by well N-29, which has no exceedances for any of the COCs, as shown in Figure 4B in Attachment 3.

**Lower Aquifer-** In the AOI 8 RIR, the lower aquifer had the following COCs in at least one well present at concentrations above the groundwater MSCs: benzene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, bis(2-ethylhexyl)phthalate, dibenz(a,h)anthracene, naphthalene, phenanthrene, pyrene, and cobalt, as presented in Sections 9.3.2 and 13.3.2, Table 4-3 and Figure 9-4 of the AOI 8 RIR. Figure 9-4 is included in Attachment 3. Section 5.2.3 and 13.2.2, as well as Figures 5-7 and 5-8 of the RIR describe lower aquifer groundwater flow to be towards the south with components of flow to the west and east in AOI 8.

- COCs detected in deep aquifer wells with exceedances of MSCs were discussed in further detail in the RIR and will be considered in the future Fate and Transport RIR as they were reported both interior and/or along boundaries.

**AOI 9** – Since the AOI 9 RIR was not approved and Evergreen is planning to submit the AOI 9 Addendum with additional characterization data on September 30, 2021, a summary of the AOI 9-RIR groundwater data is not included in this response.

## **AOI 10**

**Shallow Aquifer-** In the AOI 10 RIR (2011), the shallow aquifer had the following COCs present at concentrations above the groundwater MSCs; benzene, chrysene, naphthalene, and lead as presented in Sections 4.4, 7.3, and 8.3, Tables 10 and 15, and Figure 10 of the AOI 10 RIR. Sections 2.3.1 of the RIR, as well as Figure 5 of the RIR (Figure 5 is included in Attachment 3) describe shallow aquifer flow to the east towards Schuylkill River within eastern portion of AOI 10 and south in the western portion of AOI 10. The following describes these data in more detail:

- In accordance with Section 6.2 of the AOI 10 RIR, fate and transport modeling was completed for eight wells in AOI 10 (W-1, W-12, W-23, W-28, W-31, W-32, W-33, and W-34) that exhibited concentrations of COCs above their respective PADEP non-residential groundwater MSCs. The modeling was performed to evaluate whether concentrations of



COCs in groundwater, above MSCs, have the potential to reach the AOI boundary or Lands Creek (located long southern boundary of AOI 10). The modeling results indicate concentrations above the groundwater MSCs in shallow wells W-1, W-12, W-23, W-28, W-31, W-32, and W-34 are not predicted to migrate beyond the AOI 10 boundary, with the exception of one well, W-33, which contains a concentration of benzene that had the potential to reach Lands Creek. However, the predicted benzene concentration at the Lands Creek boundary is below the 25 Pa. Code Chapter 93 surface water quality criteria for benzene.

- As described in Section 4.5 of the AOI 10 RIR, to further evaluate potential conditions in surface water, from potential impacts from groundwater, five surface water samples were collected from Lands Creek. None of the samples exhibited concentrations of COCs above their respective 25 Pa. Code Chapter 93 screening criteria for any COC, including benzene.

**Intermediate Aquifer-** In the AOI 10 RIR, the intermediate aquifer had no COCs above MSC as presented in Sections 4.4 and 7.3, Table 11, and Figure 10 of the AOI 7 RIR. Figure 10 is included in Attachment 3. Section 2.3.2, as well as Figure 6 of the RIR (Figure 6 included in Attachment 3), describe lower aquifer groundwater flow to be towards the southwest in AOI 10.

### **PADEP Comment #3**

There were a group of comments regarding lead delineation in soil (pages 10 and 15). Given the level of interest and number of comments regarding lead, a more detailed response is warranted for the public. Evergreen did not present a sufficient narrative explaining how lead in soil has been adequately delineated at the site boundaries and summary figures showing where lead results meet the Statewide health standard medium specific concentration (SHS MSC), as well as figures that show where concentrations are present at or above the soil to groundwater SHS numeric value, the direct contact SHS numeric value, and the site-specific standard across the site. Contaminant delineation is required by 25 Pa. Code Sections 250.408(b)(2) and 250.408(d).

### **Evergreen Response to Comment #3**

In accordance with 25 Pa. Code § 250.408d soil is to be delineated to the selected standard (emphasis added), *“If soil is determined to be a medium of concern, the site characterization shall determine the relative location of the soil samples necessary to characterize the horizontal and vertical extent of contamination, and factors which could relate to the movement of the contamination. The horizontal and vertical extent of soil with concentrations of regulated substances above the **selected standard** shall be defined by an appropriate number of samples inside and outside of the area that exceeds the standard. Soil samples from the area with the anticipated highest levels of contamination shall be obtained, as appropriate, to determine the applicability of the proposed remedial action and handling and disposal requirements for that soil during remediation”*. The standard selected for lead in surface soils in the RIR was the site specific standard (SSS), which is why the RIRs presented lead delineation in relation to this standard. The RIRs also compared the lead data to either the statewide health non-residential soil to groundwater soil MSC and/or the statewide health non-residential direct contact soil MSCs in the tables in the RIRs. Note that the AOI-10 RIR was submitted and approved prior to calculation of the lead SSS.

Specifically, the tables in the RIRs summarizing lead data included:

- AOI 1 RIR– Table 3-2, 3-3
- AOI 2 RIR – Table 4

- AOI 3 RIR– Table 4
- AOI 4 RIR– Table 3-2, 3-3
- AOI 5 RIR– Table 4
- AOI 6 RIR– Table 3a, 4a
- AOI 7 RIR– Table 3a, 4a
- AOI 8 RIR– Table 3-2, 3-3
- AOI 9 RIR– Table 4
- AOI 10 – Tables 4, 5 and 6

Lead data was shown on the following figures in the RIRs:

- AOI 1 RIR– Figure 3-1
- AOI 2 RIR– Figure 11
- AOI 3 RIR– Figure 13
- AOI 4 RIR– Figure 3-1
- AOI 5 RIR– Figure 8
- AOI 6 RIR–Figure 12a
- AOI 7 RIR– Figure 12a
- AOI 8 RIR– Figure 3-1
- AOI 9 RIR– Figure 16

Evergreen understands that the PADEP is reviewing the input parameters and models used to derive the SSS for lead in soils. Evergreen will modify the SSS for lead if the PADEP's review of the input parameters and models for the statewide standard effect the assumptions made for the lead SSS. In addition, Evergreen understands that while delineation is to the selected standard for the remedial investigation, in accordance with 25 Pa. Code § 250.408d, that the assumptions in regards to site use will need to be reflective of site conditions for future Act 2 submittals such as the Cleanup Plan and the Final Report.

Due to the complexities related to lead in surface soils, including a potential new standard to be promulgated by the PADEP in the future, Evergreen completed sampling for lead in surface soil in 2021 to collect additional data along some of the Site boundaries. These data are included in Attachment 4 in table format which also includes all lead data collected during the RIs. The 2021 lead data collected in AOI 4 and AOI 9 will be included in the RIR Addendums for these AOIs. These 2021 lead data will also be included in future Act 2 submittals for the Site, as appropriate. Specifically, Stantec collected 24 shallow soil samples (0 to 2 feet below ground surface) using a stainless-steel hand auger as close as practicable to property boundaries. The following samples were collected in 2021: one in AOI 1 (AOI1-BH-21-01), one in AOI 4 (AOI4-BH-21-01), two in AOI 5 (AOI5-BH-21-01 through AOI5-BH-21-02), one in AOI 6 (AOI6-BH-21-01), six in AOI 8 (AOI8-BH-21-01 through AOI8-BH-21-06), ten in AOI 9, (AOI9-BH-21-01 through AOI9-BH-21-10), and three in AOI 10 (AOI10-BH-21-01 through AOI10-BH-21-03).

To further visualize results for lead in shallow soils on Site, Evergreen created a Site-wide shallow soil lead results figure (Figure 1), which is included in Attachment 4. Figure 1 includes 13 inset focus maps (Figures 1 through 10B). These figures include all the shallow lead soil data collected during the RIRs, as well as the data collected in 2021. The data collected in 2021 are labeled on the figures since they were not included in the RIRs. Due to the data density the lead samples from the RIRs on these figures

are not labeled, but these locations are labeled on the figures in the RIRs. These inset maps generally spatially relate to the AOIs but since they were created to depict the data from a site-wide perspective and not for a specific AOI RIR, they sometimes include more than one RIR, or just show portions of a RIR, if that was deemed a more efficient way to illustrate the data. The lead data in these figures are compared to the statewide health non-residential soil to groundwater MSC, statewide health non-residential direct contact MSC and current Site-Specific Standard. Specifically, the results are color coded as follows; red indicates a result greater than the SSS, orange indicates a result greater than the non-residential direct contact MSC, yellow indicates a result greater than nonresidential soil to groundwater MSC, and green indicates a result that is lower than the non-residential soil to groundwater MSC.

Below is a description of shallow soils lead data from a Site-wide perspective, as shown on Figure 1 and then in greater detail per each inset figure. The focus of this discussion includes 1) demonstration that exceedances of the SSS are delineated, 2) description of the data relating to the statewide soil to groundwater MSC at the site boundaries and 3) description of the data relating to the statewide direct contact MSCs at the Site boundaries. As noted above, delineation to the selected standard is required for the remedial investigation and has been completed as summarized below. Evergreen understands that future Act 2 submittals such as the Cleanup Plan and the Final Report will need to address values at the perimeter above the direct contact Statewide Health Standard MSCs and document exposure pathways both onsite and offsite.

**Figure 1 – Site-Wide** - All the exceedances of the SSS were delineated within the Site boundaries per approval of all RIRs (AOI 1,2,3,5,6,7,8,10). The RIRs for AOI-4 and AOI-9 were not approved, but not due to lack of soil delineation. One location in AOI-9 was subsequently identified by the PADEP as a location where additional delineation was requested. Evergreen intends to collect a soil sample to further this delineation and include the results in the AOI 9 RIR Addendum. In AOIs 1-8, there are 2 lead results along the northern, eastern or southern site boundaries that were above the direct contact MSC and 4 lead results that were above the soil to groundwater MSC. In AOIs 1-8, there are 3 lead results along the site boundary with the river (to the west) that were above the direct contact MSC and 8 lead results that were above the soil to groundwater MSC. In AOIs 9 and 10, there are 8 lead results along the site boundary with the land (to the north, west and south) that were above the direct contact MSC and 20 lead results above the soil to groundwater MSC. In AOIs 9 and 10, there are 3 lead results along the site boundary with the river (to the east) that were above the direct contact MSC and 13 lead results above the soil to groundwater MSC. More detailed discussion of these results is included below in relation to the inset figures. Evergreen also created Figure 2 (included in Attachment 4), for this response which depicts site use in the vicinity of the Site. As demonstrated in this figure, the Site is border by non-residential (commercial or industrial properties), which is why comparison to the non-residential MSC is appropriate at the Site boundaries.

**Table 1 – Site-Wide** - Table 1, Soil Analytical Results Summary (Stantec, 2021) is included in Attachment 4, which provides all lead data included in the RIRs, as well as the additional lead data collected in 2021.

The following provides additional detail concerning the surface soil data at the Site in accordance with the zoomed in inset figures.

**Figure 1a (Inset 1) – AOI 8** Figure 1a (Inset 1) depicts the northern portion of AOI 8. All samples are delineated to the SSS on Figure 1a. Soil samples for lead on Inset 1 are delineated to the soil to

groundwater MSC along the Site boundaries with two exceptions, one sample location along western boundary and one sample along northern boundary. Soil samples are delineated to the direct contact MSC along the Site boundaries except for one sample along the western boundary.

**Figure 1b (Inset 2) – AOI 8:** Figure 1b (Inset 2) depicts the southern portion of AOI 8. All samples are delineated to the SSS on Figure 1b. Soil samples for lead on Inset 2 are also delineated to the soil to groundwater MSC and direct contact MSC along all Site boundaries in Figure 1b.

**Figure 1c (Inset 3) – AOI 10:** Figure 1c (Inset 3) depicts AOI 10. All samples are delineated to the SSS as shown on Figure 1c. Soil samples for lead on Inset 3 are delineated to the soil to groundwater MSC along all the Site boundaries with eight exceptions, four sample locations along northern boundary, two sample locations along southern boundary, and two sample locations along the eastern boundary. Soil samples are delineated to the direct contact MSC along all Site boundaries except for two samples along the northern boundary. As noted above, the AOI-10 RIR was submitted and approved prior to calculation of the lead SSS, but Figure 1c compares the data collected during the current SSS as well as versus the Statewide Health Standard.

**Figure 1d (Inset 4) – AOI 1 and 2:** Figure 1d (Inset 4) covers AOIs 1 and 2. All samples are delineated to the SSS, as shown on Figure 1d. Soil samples for lead on Inset 4 are delineated to the soil to groundwater MSC along all the Site boundaries with one exception along the western boundary. Soil samples are delineated to the direct contact MSC along all Site boundaries.

**Figure 1e (Inset 5) – AOI 7:** Figure 1e (Inset 5) depicts conditions in AOI 7. No samples on Inset 5 were above SSS as shown on Figure 1e. Soil samples for lead on Inset 5 are delineated to the soil to groundwater MSC along all the Site boundaries with eight exceptions along the western boundary. Soil samples are delineated to the direct contact MSC along all Site boundaries with one exception along the western boundary.

**Figure 1f (Inset 6) – AOI 3 and 4:** Figure 1f (Inset 6) depicts AOIs 3 and 4. All samples are delineated to the SSS, as shown on Figure 1f. Soil samples for lead on Inset 6 are delineated to the soil to groundwater MSC. Soil samples are delineated to the direct contact MSC along all Site boundaries.

**Figure 1g (Inset 7) – AOI 9:** Figure 1g (Inset 7) depicts the northern portion of AOI 9. All samples are delineated to the SSS as shown on Figure 1g. Soil samples for lead on Inset 7 are delineated to the soil to groundwater MSC along all the Site boundaries with fifteen exceptions along northern and western boundaries. Soil samples are delineated to the direct contact MSC along all Site boundaries with five exceptions along northern and western boundaries.

**Figure 1h (Inset 8) – AOI 9:** Figure 1h (Inset 8) depicts the southern portion of AOI 9. No locations where an exceedance of the SSS was reported were deemed not delineated by the PADEP at the time of the most recent AOI 9 RIR submittal; however, one sample location in AOI-9 (AOI 9\_BH-15-146) was subsequently identified as a location where additional delineation was requested. Evergreen is planning to further delineate this sample and include the results in the AOI 9 RIR Addendum to be submitted September 30, 2021. Soil samples for lead on Inset 8 are delineated to the soil to groundwater MSC along all the Site boundaries with ten exceptions along the western, southern, and eastern boundaries. Soil samples are delineated to the direct contact MSC along all Site boundaries with four exceptions along the western, southern, and eastern boundaries.

**Figure 1i (Inset 8A) – AOI 9:** Inset 8A is provided as a zoomed-in detail figure to better view clustered samples along the western boundary as described above.

**Figure 1j (Inset 9) – AOI 6:** Figure 1j (Inset 9) depicts AOI 6. All samples are delineated to the SSS as shown on Figure 1j. Soil samples for lead on Inset 9 are delineated to the soil to groundwater along all the Site boundaries. Soil samples are delineated to the direct contact MSC along all Site boundaries with one exception along western boundary.

**Figure 1k (Inset 10) – AOI 5:** Figure 1k (Inset 10) depicts AOI 5. All samples are delineated to the SSS as shown on Figure 1k. Soil samples for lead on Inset 9 are delineated to the soil to groundwater along all the Site boundaries. Soil samples are delineated to the direct contact MSC along all Site boundaries.

**Figure 1l (Inset 10A) – AOI 5:** Figure 1l (Inset 10A) focuses on an eastern portion of AOI 5. All samples are delineated to the SSS as shown on Figure 1l. Soil samples for lead on Inset 10A are delineated to the soil to groundwater along all the Site boundaries with one exception along the eastern boundary. Soil samples are delineated to the direct contact MSC along all Site boundaries with one exception along the eastern boundary.

**Figure 1m (Inset 10B) – AOI 5:** Figure 1m (Inset 10B) focuses on a southern portion of AOI 5. All samples are delineated to the SSS as shown on Figure 1m. Soil samples for lead on Inset 10B are delineated to the soil to groundwater along all the Site boundaries. Soil samples are delineated to the direct contact MSC along all Site boundaries.

#### **PADEP Comment #4**

*Comments regarding benzene concentrations near the Verizon South District Work Center (SDWC) property and Maiden Lane and concern about potential offsite migration were included on pages 15 and 16. These questions were specific to the adequacy of the delineation of groundwater contamination in this area of the site. Evergreen's response did not adequately explain and document (with figures and tables) that the extent of the benzene plume was determined in the remedial investigation. Contaminant delineation is required by 25 Pa. Code Sections 250.408(b)(2) and 250.408(e).*

#### **Evergreen Response to PADEP Comment #4**

The PADEP's June 29, 2021 Act 2 Technical Memo Summary also included a comment concerning the Verizon SDWC property and Maiden Lane and potential offsite migration, *"Group of comments regarding benzene concentrations near Verizon SDWC property and Maiden Lane and concern about potential offsite migration. The response would benefit from further explanation of the relationship between the Refinery and Verizon SDWC properties. The basis for the background standard selection for the Verizon property, groundwater flow patterns between the two sites, discussion of light non-aqueous phase liquid (LNAPL) and dissolved impacts between Verizon SDWC and the horizontal recovery well, and the observations following the installation of the horizontal well operation also should be summarized."*

Evergreen's response in the Public Comment RIR (p.15-16) concerning the Verizon SDWC property is included below to provide additional context for Evergreen's response to PADEP Comment #4:

*"The Verizon SDWC property is a separate remediation site. A Site Characterization Report indicating closure via a combination of the statewide health standard and site-specific standard was submitted by the property owners and approved in 2012. A subsequent site-*

*specific standard Remedial Action Plan was approved in 2012. A Remedial Action Completion Report was submitted in 2015, in which they requested closure via a combination of statewide health, site-specific, and background standards due to impacts at the southern property boundary, which is across Maiden Lane from the former refinery. “*

This response in the Public Comment RIR highlights the fact that the Verizon SDWC property is a different Act 2 Site and is not part of the RIRs discussed in the Public Comment RIR. This response also describes the fact that the Verizon SDWC property selected the background standard due to the fact that groundwater concentrations from the Evergreen Site are present on the Verizon SDWC property. Evergreen’s response then continues to provide technical details concerning the groundwater flow direction and the benzene analytical results,

*“Groundwater gradient in the area between the Verizon property and the area of the remediation system along Maiden Lane is shallow, but we generally observe a groundwater flow pattern that indicates convergence in the vicinity of the AOI 8 boundary with Maiden Lane, near the Mifflin Street Sewer. The benzene dataset presented in Figure 9-2 of the AOI 8 RIR utilized maximum concentrations from 2014-2016 groundwater sampling, as this was the most comprehensive dataset at the time. It should be noted that benzene concentrations measured in groundwater varied through that time period (as low as 6.2 micrograms per liter (ug/L) in a V-MW-9 groundwater sample on March 16, 2016; benzene was not detected in well N-3 groundwater samples on June 2, 2014, March 17, 2016, and May 27, 2016; benzene was not detected in well V-MW-16 groundwater samples on April 17, 2014, June 25, 2014, September 5, 2014, and March 16, 2016 (See AOI 8 RIR Table 4-2). An overall decreasing benzene trend in this area was demonstrated in the RIR in Figure 9-5b. Subsequent gauging and sampling support the RIR interpretations of groundwater flow patterns in this area and indicates recent N-3 benzene concentrations ranging from non-detect to 6.75 ug/L in groundwater. We will continue to monitor the area wells and incorporate data into future modeling efforts. A horizontal recovery well was installed in that area for the purpose of LNAPL recovery as well as to mitigate any potential migration of dissolved contaminants away from AOI 8. The treatment system in that location was started up in January 2021. Therefore, you would not have seen any changes in the groundwater gradient as a result of pumping in reports submitted prior to that time.”*

Figures 9-1 and 9-2 from the AOI 8 RIR show the extent of the benzene groundwater plume over time. These figures are included in Attachment 5. Figure 9-2 utilized maximum concentrations from 2014-2016 groundwater sampling, as this was the most comprehensive dataset at the time (meaning it incorporated other offsite datasets). Because Figure 9-2 represented maximum concentrations over a time period, the plume extents are an intentionally conservative snapshot of conditions. In addition, Section 10.4 of the AOI 8 RIR identifies presence of LNAPL beneath the Verizon SDWC property. Section 13.2.1 of the AOI 8 RIR identifies that there is a on offsite benzene plume that Evergreen will monitor closely and Evergreen intends to utilize the information from the benzene plume in the quantitative fate and transport modeling (Fate and Transport RIR). In addition, Evergreen identifies that other off-site sources may be contributing to the observed benzene plume, which is to also be considered in future Act 2 submittals. As stated in Section 13.2.1 of the AOI 8 RIR,

*“Offsite water-table aquifer groundwater along the northern AOI 8 boundary should continue to be monitored closely for potential plume expansion and to further establish trends to be used in fate and transport modeling. Monitoring of onsite water-table aquifer groundwater along the southern AOI 8 boundary should also continue for similar reasons*

*regarding plume expansion from the south. It is generally noted that existing, offsite groundwater contamination along the perimeter of AOI 8 in the water-table aquifer may be the result of other, nearby sites with documented or undocumented releases of petroleum hydrocarbons.*

*The findings and conclusions of this and other AOI-specific, qualitative assessments at the PES Complex will ultimately be used in a site-wide MODFLOW and transport model to quantitatively predict contaminant fate and transport, including comprehensive simulations that will address the future extent of contamination and cumulative mass loading to potential receptors. Under Act 2 and in consideration of the One Cleanup Program, this level of analysis is warranted, in general, to assess risk posed by PES Complex COCs to potential receptors, to assess plume stability, to assist in selection of remedial alternatives, to assist in the process of attaining remediation standards, and to estimate time to project closure. Model predictions will be used to support informed decision making during Cleanup Plan activities.”*

As discussed above in relation to PADEP Comment #1 and PADEP Comment #2, the Fate and Transport RIR will complete the remedial investigation process for the Site, including documentation of groundwater delineation, as required by 25 Pa. Code Sections 250.408(b)(2) and 250.408(e). This approach to complete the remedial investigation, including delineation, was developed in concert with the PADEP and EPA due the complexity of Site conditions, as documented by the PADEP in the June 29, 2021 Technical Memo Summary. The benzene concentrations in groundwater near the Verizon South District Work Center (SDWC) property and Maiden Lane will be included in this analysis in the Fate and Transport RIR to complete delineation and to support remedy evaluation in the Cleanup Plan for the Site.

#### **PADEP Comment #5**

*Comments were also received regarding benzene concentrations at the property boundary (pages 27 and 43). One commentator contended that benzene groundwater contamination beyond the fence line had not been mapped. Evergreen did not document in their response that the extent of benzene contamination in groundwater at and beyond the property boundary has been determined in the remedial investigations. This documentation should include an expanded narrative and maps. Contaminant delineation is required by 25 Pa. Code Sections 250.408(b)(2) and 250.408(e).*

#### **Evergreen Response to Comment #5**

A detailed description of the benzene groundwater data was presented in response to PADEP comment #2 and #4, with the supporting figures included in Attachment 3. The reader is referred to these responses for a description of benzene in groundwater in the RIRs. Evergreen has continued to collect groundwater data since the RIRs, and utilized these data to generate a Sitewide benzene figure that was presented during the August 27, 2020 Public Meeting. This figure is included in Attachment 6. This figure identifies that there is offsite plume for Benzene at some locations and that there are also offsite non Evergreen sources for benzene in offsite groundwater. Additional data collection is also ongoing to further document offsite conditions as will be reported in the AOI 4 RIR Addendum to be submitted on September 30, 2021. As previously discussed in this response document, specifically in relation to Comment #1, #2 and #4, the Fate and Transport RIR will complete the remedial investigation for the Site and as such will present groundwater delineation for all COCs, including benzene, for the Site.

**PADEP Comment #6**

*A question regarding the condition of land along the waterfront following ship fires was included on page 77. Evergreen's response stated waterfront investigations are presented in remedial investigation reports for Areas of Interest (AOIs) 2, 3, 5, 6, 7, 8, 9, and 10. Evergreen did not provide a detailed summary with specific information to answer the question. Soil characterization is required by 25 Pa. Code Sections 250.408(b)(2) and 250.408(d).*

**Evergreen Response to Comment #6**

In an effort to be responsive to the PADEP's comment Evergreen is also including the comment on this topic from the PADEP Technical Memo Summary and the original public comment included in the Public Comment RIR .

- **Comment from PADEP Technical Memo Summary** – *“Questions about condition of land along the waterfront following ship fires. , “Evergreen's response stated waterfront investigations are presented in remedial investigation reports for Areas of Interest (AOIs) 2, 3, 5, 6, 7, 8, 9, and 10. Evergreen did not provide a detailed summary with specific information to answer the question. Clarification regarding how the waterfront was or is planned to be evaluated is requested. This question and response should also be moved to Section 2. Soil characterization is required by 25 Pa. Code Sections 250.408(b)(2) and 250.408(d).*
- **Public comment from page 77 of the Public Comment RIR** , *“Various docks have handled ships since 1866. Multiple fires have occurred on ships over the years. What is the condition of the land along the waterfront?”. Fires have been reported near the shoreline in AOI 2, AOI 6 and AOI 7 . Each of these AOIs have a hardened shorelines that consists of a combination of steel and wooden bulkheads with surface paving”*

Based on discussions with the PADEP on August 17, 2021, the PADEP clarified that the intent of this comment was to focus on soil data adjacent to the waterfront. As summarized in the RIRs, data collection along the waterfront were completed in relation to petroleum hydrocarbon investigation focusing on source areas, which generally were interior to the site. The tables in the AOIs that summarized soil data include:

- AOI 1 RIR– Table 3-2, 3-3
- AOI 2 RIR – Table 4
- AOI 3 RIR– Table 4
- AOI 4 RIR– Table 3-2, 3-3
- AOI 5 RIR– Table 4
- AOI 6 RIR– Table 3a, 4a
- AOI 7 RIR– Table 3a, 4a
- AOI 8 RIR– Table 3-2, 3-3
- AOI 9 RIR– Table 4
- AOI 10 RIR – Tables 4, 5 and 6

The figures in the RIRs that present the soil data include:

- AOI 1 RIR– Figure 3-1
- AOI 2 RIR– Figure 11
- AOI 3 RIR– Figure 13
- AOI 4 RIR– Figure 3-1



- AOI 5 RIR– Figure 8
- AOI 6 RIR–Figure 12a
- AOI 7 RIR– Figure 12a
- AOI 8 RIR– Figure 3-1
- AOI 9 RIR– Figure 16
- AOI 10 RIR– Figure 7

As part of this response, Evergreen created four Site-wide summary figures for soil. These figures include Figure 1 which depicts surface soils in comparison to the non-residential direct contact MSC, Figure 2 which depicts surface soils in comparison to the non-residential soil to groundwater MSC, Figure 3 which depicts sub-surface soils in comparison to the non-residential direct contact MSC and Figure 4 which depicts sub surface soils in comparison to the non-residential soil to groundwater MSC.

Upon review of these Figures 1 through 4 in Attachment 7, and focusing on soil results along the waterfront, or along the river, to respond to PADEP Comment #6, the following observations can be made:

- In surface soils (0 to 2 feet below grade) – 9 samples had at least one COC that was above the direct contact MSC and 20 samples had at least one COC above the soil to groundwater MSC.
- In sub-surface soils (Below 2 feet below grade) – none of the samples had any COCs that were above the direct contact MSC and 24 samples had at least one COC above the soil to groundwater MSC.

The exceedances of the soil to groundwater MSCs will be further evaluated via the groundwater pathway, with groundwater samples in the Fate and Transport RIR. The exceedances of the direct contact pathway will be evaluated in relation to potential remedial measures in future Act 2 Clean-up Plans.

### **3.0 PLAIN PLANGUAGE SUMMARY**

The following includes the PADEP’s comment followed by a plain language summary of the answers provided in Section 2 above. Due to the nature of a plain language summary, the majority of the details are not able to be included, so the reader is referred to the text above, attachments to this response and the RIRs for further context and details.

#### **PADEP Comment #1**

*There were multiple public inquiries regarding potential impacts to drinking water supplies, including a question about drinking water intake portals downstream from the site (pages 5, 31, 28-31 42-43, and 76). Evergreen’s response indicated that Pennsylvania Groundwater Information System (PaGWIS) and eMapPA were evaluated for identification of potable supply wells within a one-mile radius of the site. Inquiries with DEP’s Safe Drinking Water Program and New Jersey Department of Environmental Protection (NJDEP) are also needed. On page 29, Evergreen states “The groundwater beneath the site is not allowed to be used for any potable (human consumption) or industrial use...” Evergreen should include reference to the source material to support this statement*

*The response on pages 30-31 includes reference to two USGS reports without summarizing the findings, details on how these reports were used to develop the site conceptual model, or how they will be used in the fate and transport model*

*The response on page 31, 43, and 76 should be moved to Section 2 of the report, and “low probability for potable water supply wells in the area,” “not expected to impact local drinking water supplies,” and “concentrations found in the deep aquifer do not indicate a potential risk to communities in New Jersey...” should be qualified with documentation.*

*Exposure pathway evaluation is a requirement of 25 Pa. Code Section 250.404.*

#### **Plain Language Summary for Response to PADEP Comment #1**

The additional efforts by Evergreen to find drinking water wells confirmed that there are none within the area of the refinery as initially reported as part of the evaluation of the drinking water pathway. As previously stated, further evaluation of the extent that chemicals are projected to travel in groundwater will be conducted in the fate and transport modeling efforts although recent information obtained from New Jersey DEP as summarized above confirms that concentrations in the deep aquifer do not indicate potential risk to New Jersey drinking water. Well known USGS models have been used by Evergreen in the development of the conceptual site model and will be used further in the Fate and Transport RIR.

#### **PADEP Comment #2**

*Inquiries related to the adequacy of groundwater delineation were not sufficiently addressed (pages 7 and 8). Evergreen’s response did not directly address the concern that groundwater contamination was not delineated. Although the commentators did not specify examples of inadequate delineation, Evergreen should provide a more in-depth narrative and figures documenting the completeness of the groundwater characterization. Contaminant delineation is required by 25 Pa. Code Sections 250.408(b)(2) and 250.408(e).*

#### **Plain Language Summary for Response to PADEP Comment #2**

Past reports, past presentations, and responses in the Public Comment RIR have all acknowledged that there are chemicals in groundwater that have moved past the property boundaries in some locations. The upcoming AOI 4 RIR Addendum, AOI 9 RIR Addendum and Fate and Transport RIR will complete the remedial investigation process for the Site, including documentation of groundwater delineation. A significant amount of groundwater data has been collected to date as shown in the Figures included as Attachment 3 to this response and groundwater data is continually being collected. These data will be included in the Fate and Transport RIR in order to inform the eventual Cleanup Plan(s) for the Site.

#### **PADEP Comment #3**

*There were a group of comments regarding lead delineation in soil (pages 10 and 15). Given the level of interest and number of comments regarding lead, a more detailed response is warranted for the public. Evergreen did not present a sufficient narrative explaining how lead in soil has been adequately delineated at the site boundaries and summary figures showing where lead results meet the Statewide health standard medium specific concentration (SHS MSC), as well as figures that show where concentrations are present at or above the soil to groundwater SHS numeric value, the direct contact SHS numeric value, and the site-specific standard across the site. Contaminant delineation is required by 25 Pa. Code Sections 250.408(b)(2) and 250.408(d).*

#### **Plain Language Summary for Response to PADEP Comment #3**

In accordance with the Act 2 regulations, soils must be delineated to the selected standard. Evergreen has developed a site specific standard (SSS) for the Site, but will update the SSS if PADEP changes

the assumptions and/or model for lead. The standard selected for lead in surface soils in the RIR was the site specific standard (SSS), which is why the RIRs presented lead delineation in relation to this standard. The RIRs also compared the lead data to either the statewide health non-residential soil to groundwater soil MSC and/or the statewide health non-residential direct contact soil MSCs in the tables and/or figures in the RIRs. Note that the AOI-10 RIR was submitted and approved prior to calculation of the lead SSS. The RIR tables and figures showing lead are referenced in this response document, with the majority of the referenced figures included as attachments to this response. In addition these tables and figures are available in the RIR documents on the Evergreen website for reference. Lead data from the RIRs, as well as recent data collected in 2021, are depicted in relation to the both the direct contact Statewide Health MSCs, the soil to groundwater Statewide Health MSCs and the site-specific standard on the Figures and Table in Attachment 4. These Figures and Tables in Attachment 4 were generated to show all of the data in one series across the refinery to make it easier to view and clearly identifies soil concentrations compared to each of the standards.

***PADEP Comment #4***

*Comments regarding benzene concentrations near the Verizon South District Work Center (SDWC) property and Maiden Lane and concern about potential offsite migration were included on pages 15 and 16. These questions were specific to the adequacy of the delineation of groundwater contamination in this area of the site. Evergreen's response did not adequately explain and document (with figures and tables) that the extent of the benzene plume was determined in the remedial investigation. Contaminant delineation is required by 25 Pa. Code Sections 250.408(b)(2) and 250.408(e).*

**Plain Language Summary for Response to PADEP Comment #4**

The AOI 8 RIR identified the extent of the benzene plume, including offsite impacts, and identified this as an area for continued monitoring and evaluation. Figures 9-1 and 9-2 from the AOI 8 RIR show the extent of the benzene groundwater plume over time. These figures are included in Attachment 5. Figure 9-2 used the highest concentrations from 2014-2016 groundwater sampling, as this was the most comprehensive dataset at the time (meaning it included other offsite groundwater information). Because Figure 9-2 showed maximum concentrations over a time period, the size of the plume is an intentionally conservative snapshot of conditions. In addition, Section 10.4 of the AOI 8 RIR identifies presence of light non-aqueous phase liquid (LNAPL) (petroleum on top of the groundwater) beneath the Verizon SDWC property. Section 13.2.1 of the AOI 8 RIR identifies that there is an offsite benzene plume that Evergreen will continue to monitor and Evergreen intends to use the information in the quantitative fate and transport modeling (Fate and Transport RIR).

***PADEP Comment #5***

*Comments were also received regarding benzene concentrations at the property boundary (pages 27 and 43). One commentator contended that benzene groundwater contamination beyond the fence line had not been mapped. Evergreen did not document in their response that the extent of benzene contamination in groundwater at and beyond the property boundary has been determined in the remedial investigations. This documentation should include an expanded narrative and maps. Contaminant delineation is required by 25 Pa. Code Sections 250.408(b)(2) and 250.408(e).*

**Plain Language Summary for Response to PADEP Comment #5**

The extent of benzene in groundwater has been shown in all past RIRs, including where it is known to go beyond the property boundary. The reader is referred to maps and tables in RIR or to the detailed description above in Comments 2 and 4. Evergreen has continued to collect groundwater data since the RIRs, and utilized these data to generate a Sitewide benzene figure that was presented during the August 27, 2020 Public Meeting, which is posted to the website, which shows the entire

benzene plume beneath the facility. This figure is included in Attachment 6. This figure shows that there is offsite benzene at some locations and that there are also offsite non-Evergreen sources for benzene in offsite groundwater. Additional data collection is also ongoing to further document offsite conditions as will be reported in the AOI 4 RIR to be submitted on September 30, 2021. As previously discussed in this response document, specifically in relation to Comment #1, #2 and #4, the Fate & Transport RIR will complete the remedial investigation for the Site and as such will present groundwater delineation for all COCs, including benzene, for the Site.

#### **PADEP Comment #6**

*A question regarding the condition of land along the waterfront following ship fires was included on page 77. Evergreen's response stated waterfront investigations are presented in remedial investigation reports for Areas of Interest (AOIs) 2, 3, 5, 6, 7, 8, 9, and 10. Evergreen did not provide a detailed summary with specific information to answer the question. Soil characterization is required by 25 Pa. Code Sections 250.408(b)(2) and 250.408(d).*

#### **Plain Language Summary for Response to PADEP Comment #6**

Based on discussions with the PADEP on August 17, 2021, the PADEP clarified that the intent of this comment was to focus on soil data adjacent to the waterfront. As summarized in the RIRs, data collection along the water fronts were completed in relation to petroleum hydrocarbon investigation focusing on source areas, which generally were interior to the site.

Although figures showing soil data along the river boundary are included in each of the RIRs, Evergreen created four Site-wide summary figures for soil to more clearly show soil quality along the river. These figures include Figure 1- surface soils compared to the non-residential direct contact MSC, Figure 2- surface soils compared to the non-residential soil to groundwater MSC, Figure 3- sub-surface soils compared to the non-residential direct contact MSC, and Figure 4- sub surface soils compared to the non-residential soil to groundwater MSC. Note that figures show data for multiple chemicals in each colored point. If any one of the chemicals exceeded a standard the dot is marked as an exceedance, but it does not mean that all of the chemicals are present at concentrations above the standard at that location. To view all of the detailed soil maps and tables, the reader is referred to the individual AOI maps and tables in the RIRs.

Upon review of these Figures 1 through 4 in Attachment 7, and focusing on soil results along the waterfront, or along the river, to respond to PADEP Comment #6, the following observations can be made:

- In surface soils (0 to 2 feet below grade) – multiple samples had at least one COC that was above the direct contact MSC and 20 samples had at least one COC above the soil to groundwater MSC.
- In sub-surface soils (Below 2 feet below grade) – none of the samples had any COCs that were above the direct contact MSC and multiple samples had at least one COC above the soil to groundwater MSC.

Note that the exceedances of the soil to groundwater MSCs will be further evaluated via the groundwater pathway, with groundwater analysis in the Fate and Transport RIR. Samples with exceedances of the direct contact pathway standards will be evaluated in relation to potential remedial measures in future Act 2 Clean-up Plans.

## **4.0 CLOSING**

The information included in this response document is provided to address the technical deficiency comments identified by the PADEP in their June 29, 2021 correspondence. The PADEP identified other review comments in their Technical Memo Summary to be addressed in future reporting to provide more clarity and transparency. Evergreen has noted these comments and will include information in future Act 2 submittals, where appropriate, that addresses the items included in the review comment portion of the PADEP Technical Memo Summary. Select items from PADEP's additional comments that would not be part of Act 2 report submittals but can be addressed through simple text/website edits or clarification to select responses will be addressed in the near future. Evergreen looks forward to continuing the Act 2 process with continued engagement by all stakeholders as the Site moves from the remedial investigation stage towards Site Cleanup.

Regards,

Evergreen Resources Management Operations



Tiffani L. Doerr, P.G.

**Evergreen Resources Management**

2 Righter Parkway, Suite 120

Wilmington, DE 19803

Cc: Scott Cullinan, PE, Evergreen Resources Management Operations  
Colleen Costello, PG, Sanborn Head & Associates, Inc.

## ATTACHMENT 1

Attachment 1 includes the questions identified by the PADEP from the March 31, 2021 Public Comment RIR that required further information. The page number and questions are presented below, followed by the additional language Evergreen will *add* to the original answers for each individual or combined question. These updated combined answers may include both the additional written detail from the August 28, 2021 response letter and the plain language summary of the detail in the August 28, 2021 letter. Some of the updated responses below may include only the original answer plus the plain language summary of the new detailed response with a reference back to the detail in the August 28, 2021 response document. This is to address that these responses must also be posted to the website Q&A, which can't house all of the required attachments. The updated responses as written below will be posted to the Evergreen website.

The responses to the questions below that were on Public Comment RIR pages 31, 43, and 76 should be considered to be in Section 2 of the Public Comment RIR, which compiled questions related to past RIR reports.

### **Comments identified by the PADEP in Comment #1 in the June 29, 2021 Comment Letter**

#### **Page 5 of the Public Comment RIR**

##### **Question:**

Are drinking water intake portals downstream from the site. All the way to the Delaware Bay?

##### **Original Answer:**

As a part of the investigations, Evergreen conducted a well search including field reconnaissance within a one-mile radius of the Site using Pennsylvania's Groundwater Information System (PaGWIS) and PADEP's eMapPA GIS mapping tool. Search results did not identify potable water supply wells in the area. We also conducted a search of surface water intakes from the Schuylkill River within one mile of the Site, and the Philadelphia Water Department did not identify any surface water intake portals within one mile in its 2010 "Schuylkill River Hydrology and Consumptive Use Report." For reference, the search radius for potable groundwater or surface water is typically ¼ to ½ mile from a Site, but Evergreen completed a one-mile search as part of the RI activities for this Site.

#### **Page 30-31 of the Public Comment RIR**

##### **Question:**

Have there been any studies on the effect of the pollution of the PRM in the water supply in NJ, as public and private water companies draw water from it and Phila stopped using it in the 1990's because it was too polluted?

##### **Original Answer:**

Evergreen is not aware of any available studies that evaluate the fate and transport of petroleum hydrocarbon chemicals in groundwater from the Site into New Jersey groundwater. Evergreen plans to complete fate and transport modeling with a numerical groundwater model, which will evaluate the potential migration of petroleum-related chemicals from both the water-table aquifer (AOIs 1-10) and lower aquifer (AOI 11). Based on data collected to date, there is no indication that petroleum-related chemicals in groundwater from site operations have or will migrate to New Jersey. There have been several studies of the PRM groundwater unit focusing on groundwater flow and

naturally occurring metals, including:

- Historical Ground-Water-Flow Patterns and Trends in Iron Concentrations in the Potomac Raritan-Magothy Aquifer System in parts of Philadelphia, Pennsylvania, and Camden and Gloucester Counties, New Jersey, U.S. Geological Survey, Water-Resources Investigations Report 03-4255, - Schreffler, Curtis, L., 2001.
- Simulation of Ground-Water Flow in the Potomac-Raritan-Magothy Aquifer System Near the Defense Supply Center Philadelphia, and the Point Breeze Refinery, Southern Philadelphia Pennsylvania, U.S. Geological Survey, Water-Resources Investigations Report 01-4218, Sloto, R. A., 2003.

## **Page 28 of the Public Comment RIR**

*The following questions are similar, so a combined answer was provided to address these related questions.*

### **Question:**

There has been some concern that because of the aquifer under the water, pollutants from the refinery may impact drinking water in downstream New Jersey. Do you think this was ever a concern? If yes, will it continue to be one even as the refinery shuts down?

### **Question:**

I am a New Jersey resident who is extremely concerned about the potential for groundwater contamination at the PES refinery site and how it could affect my young child. The area has been highly contaminated for a century, and residents of both Pennsylvania and New Jersey are now well aware of the dangers posed by groundwater contamination, following high-profile cases in Tom's River, NJ, and the now-confirmed systemic drinking water contamination occurring as a result of fracking the Marcellus Shale. Please follow the advice of experts at the Clean Air Council and perform an immediate and thorough and plan to identify and remediate contamination.

### **Original Answer:**

Evergreen's role is to evaluate and remediate groundwater conditions created based on use of the facility up through 2012. Based on extensive data collected over the last 20+ years and groundwater modeling performed to date, it is highly unlikely that groundwater impacts at the former refinery Site affect drinking water quality in New Jersey. As part of the Act 2 process, Sunoco and Evergreen have performed several preliminary risk assessments, including accounting for the projection of dissolved contaminant migration in groundwater. All assessments to date have shown that conditions with respect to groundwater beneath the facility are protective of human health both on-site and off-site. Evergreen is working on a complete groundwater fate and transport analysis, which projects where and how far contaminants may travel and at what concentrations, as well as other reports that will provide additional and more detailed analysis.

## **Page 29 of the Public Comment RIR**

### **Question:**

Has NJDEP been involved with any issues on the NJ side of the Delaware River? Have public and municipal water companies in NJ been notified about pollution in the PRM Aquifer water supply? Have they been notified about AOI 11 efforts by PA DEP and EPA?

### **Original Answer:**

The NJDEP is routinely involved with groundwater investigations of the Potomac-Raritan-Magothy

aquifer (PRM) due to source areas located in New Jersey that are not related to impacts in AOI 11. There has been no demonstrated connection between groundwater impacts in AOI 11 due to past refinery operations and the PRM groundwater quality in New Jersey. As such, the NJDEP has not been involved with cleanup of the former Philadelphia Refinery. AOI 11 groundwater conditions beneath and adjacent to the refinery has not warranted notification of the public or municipal water companies in New Jersey, nor is Evergreen aware that PADEP or EPA have notified these water purveyors that there is a perceived risk to New Jersey groundwater quality stemming from operation of the former Philadelphia Refinery.

### **Page 30 of the Public Comment RIR**

#### **Question:**

Have there been any studies on the effect of the pollution of the PRM in the water supply in NJ, as public and private water companies draw water from it and Phila stopped using it in the 1990's because it was too polluted?

#### **Original Answer:**

Evergreen is not aware of any available studies that evaluate the fate and transport of petroleum hydrocarbon chemicals in groundwater from the Site into New Jersey groundwater. Evergreen plans to complete fate and transport modeling with a numerical groundwater model, which will evaluate the potential migration of petroleum-related chemicals from both the water-table aquifer (AOIs 1-10) and lower aquifer (AOI 11). Based on data collected to date, there is no indication that petroleum-related chemicals in groundwater from site operations have or will migrate to New Jersey.

There have been several studies of the PRM groundwater unit focusing on groundwater flow and naturally occurring metals, including:

- Historical Ground-Water-Flow Patterns and Trends in Iron Concentrations in the Potomac Raritan-Magothy Aquifer System in parts of Philadelphia, Pennsylvania, and Camden and Gloucester Counties, New Jersey, U.S. Geological Survey, Water-Resources Investigations Report 03-4255, - Schreffler, Curtis, L., 2001.
- Simulation of Ground-Water Flow in the Potomac-Raritan-Magothy Aquifer System Near the Defense Supply Center Philadelphia, and the Point Breeze Refinery, Southern Philadelphia Pennsylvania, U.S. Geological Survey, Water-Resources Investigations Report 01-4218, Sloto, R. A., 2003.

### **Page 42 -43 of the Public Involvement RIR**

*The following questions are similar, so a combined answer was provided to address these related questions.*

#### **Question:**

The Site is a Source to a Drinking Water Aquifer.

#### **Question:**

Is the water table or the lower aquifer the source of drinking water for anyone?

#### **Original Answer:**

The water table and lower aquifers are not utilized as sources of potable water in proximity to the Site. As a part of the investigations, Evergreen conducted a well search within a one-mile radius of



the Site using Pennsylvania's Groundwater Information System (PaGWIS) and PADEP's eMapPA GIS mapping tool. Results of the search, which included field reconnaissance, indicated a low probability for potable water supply wells in the area.

## **Page 76 of the Public Comment RIR**

### **Question:**

Deep Aquifer - Evergreen states a layer of clay and mud partly separates the upper, "water table" aquifer from a lower, "deep" aquifer. This barrier is not continuous, though, and fails to protect the deep aquifer from contamination. Since the deep aquifer supplies drinking water to communities in New Jersey, Evergreen needs to specify the actions it will take to investigate and clean up any contamination affecting the deep aquifer and public water supplies.

### **Original Answer:**

As presented in the RIRs, the lower aquifer (AOI 11) has been investigated during all the other AOI investigations completed since 2013, and the results were reported in the individual RIRs. The concentrations found in the deep aquifer do not indicate a potential risk to communities in New Jersey, so no cleanup is anticipated as being necessary. The projected fate and transport of contaminants in the deep aquifer will be included in the Fate and Transport RIR, which is anticipated for submittal by the end of 2021. Upon completion of the modeling, it will be confirmed whether any remedial action is necessary in the lower aquifer.

### **Additional Information Added to each answer above (from p. 5, 30-31, 28, 29, 42-43, 76) based on PADEP's June 29, 2021 Comment Letter**

The following additional language was developed based on the information included in Evergreen's August 28, 2021 response to the PADEP's June 29, 2021 comment letter to the Public Comment RIR. The public is encouraged to review Evergreen's response in full, which is posted on the Evergreen website.

In each of the approved AOI RIRs, Evergreen documented that no confirmed drinking water supply wells were located within one mile of the Site (as documented in Section 10.9 of the AOI 1 RIR, Section 7.6 of the AOI 2 RIR, Sections 3.5 and 7.6 of the AOI 3 RIR, Section 3.5 and 7.6 of the AOI 5 RIR, Section 9.6 and 10.6 of the AOI 6 RIR, Section 9.7 AOI 7 RIR, Section 9.7 of the AOI 8 RIR and Section 8.3 of the AOI 10 RIR.). Evergreen updated the database (PaGWIS) searches within a mile of the Site in 2016, as documented in the AOI 1, AOI 2, AOI 3, AOI 5, AOI 6, AOI 7 and AOI 10 RIRs, and then again in 2017 for the AOI 8 RIR. Evergreen also completed a secondary search of the Pennsylvania Department of Environmental Protection (PADEP) eMapPA in 2017. Evergreen completed additional field verification in 2018 as wells as review of City of Philadelphia ordinances in 2019, as summarized in the 2019 groundwater receptor survey included in Evergreen's response to the PADEP June 29, 2021 comment letter to the Public Comment RIR which is posted on the Evergreen website.

Evergreen completed several activities to provide additional documentation that there are no drinking water sources within one mile of the former Philadelphia Refinery. These activities included; review of the City of Philadelphia's publicly available information concerning potable drinking water intakes, contacting PADEP's Safe Drinking Water Program, contacting the City of Philadelphia's Health Department, contacting the City of Philadelphia Water Department, contacting

the City of Philadelphia Department of Parks and Recreation, updating the 2018 groundwater receptor survey with 2021 paGWIS and eMapPA database searches, coordinating with the PADEP to obtain information from the New Jersey Department of Environmental Protection (NJDEP) and providing additional documentation concerning the institutional controls (IC) at the Site prohibiting groundwater use. The following summarizes the results of these activities, which confirmed that there are no drinking water sources with 1 mile of the Site, this finding updates the statement in the 2019 groundwater receptor survey identified that the probability of any potable supply wells within one mile of the Site as low.

- As summarized on the Philadelphia Water Department website “Philadelphia’s water comes from the Schuylkill and Delaware rivers...Rivers are surface water supplies. Philadelphia does not use groundwater...PWD has three water intakes: two located on the Schuylkill River and one on the Delaware River” The location of the intakes from the PWD website are shown to the right. Each of these water intakes are located more than one mile from the Site. The PWD website is <https://water.phila.gov/pool/files/2019-pwd-water-quality-report.pdf>
- Evergreen contacted Mr. Benjamin Greeley, from the PADEP’s Safe Drinking Water Program to obtain additional information to respond to the PADEP’s comment. Mr. Greeley replied on August 16, 2021 that, “There would be no drinking water intakes within a mile of the refinery in south Philadelphia.”
- Evergreen contacted the Environmental Engineering Department of the Health Department of Philadelphia, Philadelphia Water Department, and Parks and Recreation Department of Philadelphia to obtain additional information to respond to the PADEP’s comment. The departments contacted were not aware of drinking water wells within the City of Philadelphia or they did not respond to the information request.
- Evergreen completed an updated PaGWIS and eMapPA database search in August 2021 which verified the results of the 2019 groundwater receptor survey and confirmed that no groundwater drinking water sources were confirmed within one mile of the Site.
- On May 14, 2021, the PADEP received the information below from Mr. Jeffrey Hoffman, NJ State Geologist, from the NJ DEP’s Geological & Water Survey in response to their questions about potential impacts from the former Philadelphia Refinery’s groundwater contamination on New Jersey water supplies (emphasis added):



*“At this time NJDEP does not consider PFAS contamination at the former Philadelphia Refinery to be a threat to NJ via a flow path through the lower PRM aquifer. This is based on several lines of reasoning:*

*1) The lower PRM is the water table aquifer at the site and is very shallow under the Delaware River. We consider the Delaware River to be recharging this aquifer. As such, it is likely a recharge boundary to any contaminants that might be entering it on the Pa side. Studies conducted in the PRM aquifer system within New Jersey indicate that the Delaware River acts as a significant hydraulic flow boundary*

*limiting any groundwater source area from extending to the Pennsylvania side of the Delaware River. More information is in Pope and Watt, 2005 (<https://pubs.er.usgs.gov/publication/sir20045101>) and Navoy and Carleton, 1995 (<https://www.state.nj.us/dep/njgs/pricelst/greport/gsr38.pdf>).*

*2) That the Delaware River acts as a recharge boundary is supported by aquifer tests in NJ conducted in the lower PRM close to the river. These tests show significant leakage which would not occur if the Delaware River was not a recharge boundary.*

*3) NJDEP delineated well head protection areas for unconfined wells within the Potomac using the methods detailed in Spayd and Johnson, 2003, available at <https://www.state.nj.us/dep/njgs/pricelst/ofreport/ofr03-1.pdf>. These calculated areas represent the source areas to wells based on three time of travel intervals of 2, 5 and 12 years. The delineated source areas indicate that no wells completed within the Potomac Formation in NJ have well head protection areas which extend into Pennsylvania.*

*4) Reported water quality data ([https://www9.state.nj.us/DEP/WaterWatch\\_public/](https://www9.state.nj.us/DEP/WaterWatch_public/)) indicate no contamination is present in supply wells for the National Park Water Department, which are the closest NJ supply wells to the Philadelphia Energy Solutions refinery. The refinery has been in operation for more than 100 years and it appears that no measurable contamination has migrated to these wells. All public supply wells in New Jersey are required to monitor and report water quality data quarterly therefore any potential contaminants would be identified.*

***At this time NJDEP believes the existing hydrogeologic, geologic and water quality data indicate any contaminants that may be in the subsurface at the PES refinery in Philadelphia do not pose a threat to water supply wells in the PRM aquifer system in NJ. “***

- On May7, 2021 the PADEP had a conference call with Steve Maybury of the NJ DEP’s Site Remediation Program who shared the following information with the PADEP (emphasis added):
  - There were significant sources of PFAS along the Delaware River in northern Gloucester County, including the Solvay and former Dupont facilities.
  - NJ DEP has inferred that PFAS discharged to surface water was pulled by reverse flow into the aquifer by pumping of supply wells in the area.
  - Public supply wells in the area are tested for contaminants, including PFAS.
  - Public and private supply wells impacted by PFAS in the area are treated.
  - **NJ DEP has not attributed this contamination to Pennsylvania sources.**
  - Further information on wellhead protection zones is available on NJ DEP’s GIS page.
  - Additional information on public supply well testing is available on the Drinking Water Watch website.
- The First Amendment to the Consent Order and Agreement (COA), signed by the PADEP, Evergreen and Hilco (dated June 18, 2020) for the former Philadelphia Refinery states, “(1) Use of the Property only for commercial or industrial activity, excluding schools, nursing home and other residential residential-style facilities ad publicly-accessible recreational areas; and (2) not use groundwater at the Property for any purpose except for sampling,

treatment and/or other remedial activities.” This requirement acts as an IC preventing groundwater use at the Site as a drinking water source.

The additional efforts by Evergreen to find drinking water wells confirmed that there are none within the area of the refinery as initially reported as part of the evaluation of the drinking water pathway. As previously stated, further evaluation of the extent that chemicals are projected to travel in groundwater will be conducted in the fate and transport modeling efforts although recent information obtained from New Jersey DEP as summarized above confirms that concentrations in the deep aquifer do not indicate potential risk to New Jersey drinking water. Well known USGS models have been used by Evergreen in the development of the conceptual site model and will be used further in the Fate and Transport RIR.

**Comments identified by the PADEP in Comment #2 in the June 29, 2021 Comment Letter**

**Page 7 and 8 of the Public Comment RIR**

*The following questions are similar, so a combined answer was provided to address these related questions.*

**Question:**

Groundwater needs more attention and testing as well as soil. For one thing, an update is needed to reflect the conditions of both shallow and deep groundwater because of the length of time since the reported sampling, and after years of partial remediation. Contamination in groundwater aquifers does not stay in one place for years! I'm also concerned that the shallow and deep aquifers were presented as being separated by an aquitard, implying that the deeper drinking water aquifer was somehow protected from the high pollution in the more shallow areas. However, the shallow and deep aquifers are not continuously separated, leaving contamination to migrate between them. This is even more concerning since some shallow areas of the aquifer are very close to highly contaminated soil and thus very vulnerable to becoming more contaminated over time. Also, while pumping contamination out of the water has removed a lot of pollution, pumping also alters how quickly and in what direction groundwater (and contamination) moves, and may have increased the movement of contamination between these unconfined aquifers or how far from the refinery the contamination extends. Because of this, it would be prudent to conduct new tests as well as sampling a larger portion of both aquifers.

**Question:**

The current work cannot be evaluated until all analysis about the aquifers is completed. Without that information, the public does not have all of the information to evaluate decisions on soil and groundwater sampling.

**Question:**

Evergreen has not sufficiently delineated the nature and extent of contamination in the deep aquifer and the unconfined aquifer (water table).

**Original Answer:**

Evergreen conducts continual groundwater sampling at the Site, not just as part of the RIRs. Sampling is necessary before, during and after remediation is complete; therefore, sampling will continue at this facility for quite some time. The current work under evaluation (what's included in the RIRs) includes defining the nature and extent of contamination in the subsurface as well as significant information on the geology and hydrogeology, which do not require additional aquifer analysis to review. Remaining aquifer analysis, which is the fate and transport model, takes the RIR data and predicts migration. The eventual Final Report for the site will also include additional analysis to demonstrate that remediation goals have been attained, which will include further groundwater analysis of aquifer conditions. We frequently evaluate the direction and rates of groundwater flow at the Site and routinely collect groundwater samples from various hydrogeologic units beneath the Site. Our remedial investigation activities also evaluated the areas where the confining layers in the subsurface were not continuous through the completion of soil borings, installation of monitoring wells, collection of groundwater samples, groundwater elevations and completion of aquifer tests to determine hydraulic properties of the groundwater units. We will use this data for the upcoming evaluation of contaminant movement in the fate and transport evaluation through the use of a three-dimensional numerical model, which will be presented in the Fate and

Transport RIR. Characterization of the Site's geology, hydrogeology, and extent of contamination -- including study of the pathways that could exist -- has been ongoing and is included in the RIRs. A fate and transport analysis will be prepared once all RIRs have been approved, and the analysis will include model simulations of contaminant transport. This report is expected to be submitted by the end of 2021.

**Question:**

What investigation has been done to identify contamination to soil or groundwater beyond the property boundary (offsite)? If so, when? If not, why not?

**Original Answer:**

RIRs must include delineation of contamination in soil and groundwater be approved. Soil impacts have been delineated across the Site and up to the fence lines as noted in each of the RIRs, meaning soil impacts are not shown to extend off-site. The RIRs for AOIs 4 and 9 were not approved due to the need for additional off-site delineation of groundwater impacts. Thus, we have installed off-site wells beyond the property boundaries of both AOIs 4 and 9. Results will be presented in forthcoming RIR Addendums. Note that the presentation graphics from the August 27, 2020 Public Information Session included the off-site data collected up to the time of the presentation, including new off-site wells. We have collected additional data since the presentation for the AOI 4 off-site wells, which will be included in the AOI 4 RIR Addendum. The RIR Addendums for both AOI 4 and AOI 9 must be submitted by September 2021 to meet interim goals outlined in the First Amendment to Consent Order and Agreement.

**Additional Information Added to each answer above (from p.7-8) based on PADEP's June 29, 2021 Comment Letter**

Past reports, past presentations, and responses in the Public Comment RIR have all acknowledged that there are chemicals in groundwater that have moved past the property boundaries in some locations. The upcoming AOI 4 RIR Addendum, AOI 9 RIR Addendum and Fate and Transport RIR will complete the remedial investigation process for the Site, including documentation of groundwater delineation. A significant amount of groundwater data has been collected to date and groundwater data is continually being collected. These data will be included in the Fate and Transport RIR in order to inform the eventual Cleanup Plan(s) for the Site. Evergreen prepared a response to the PADEP's June 29, 2021 Comment Letter on the Public Comment RIR which is posted to the Evergreen website to provide additional information to further address the questions above. The response provides additional details concerning characterization in soil and groundwater, including many attached figures and detailed information. The public is encouraged to review this information for additional information pertaining to these questions.

**Comments identified by the PADEP in Comment #3 in the June 29, 2021 Comment Letter**

**Page 10-11 of the Public Comment RIR**

*The following questions are similar, so a combined answer is provided to address these related questions.*

**Question:**

Since Evergreen used an inappropriate standard as a basis for its remedial investigation in reports, how does it justify that it has correctly defined the extent of lead contamination?

**Question:**

Lead looks to be close to the edge of the site which is close to residential areas. Are you willing to commit to cleaning up the lead to residential standards in areas of the property that are closer to residential areas?

**Question:**

Evergreen fails to sufficiently delineate exceedances of the soil-to-groundwater numeric value and the direct contact numeric value for all constituents of concern.

**Original Answer:**

RIRs must include delineation of soil contamination, including all analyzed compounds, and must be approved by the PADEP. We compared all compounds of concern to their respective soil-to-groundwater, medium-specific concentration, as illustrated in RIR data tables, and delineated to the direct-contact, medium-specific concentrations in both surface and subsurface soil based on existing exposure pathways, as illustrated in RIR figures. This delineation is conducted up to the fence line or other boundaries of the property, as required by Act 2. The exception to this is lead in surface soil only, which was delineated to the site-specific standard based on a direct-contact pathway and updated model calculations. As noted in response to other questions concerning lead, the calculation of the site-specific standard was appropriate in accordance with Act 2 regulations and recommendations from the USEPA and the PADEP.

**Page 15 of the Public Comment RIR**

**Question:**

Regarding the soil-to-groundwater value, did you compare the soil concentrations to the soil-to-groundwater number and the site-specific number? If so, it didn't seem like the soil-to-groundwater number was given enough consideration or serious analysis.

**Original Answer:**

In the RIRs, the soil concentrations were compared to the statewide health standard soil-to-groundwater number, the statewide health standard direct contact number, and the site-specific number (for lead only). We have hundreds of wells on site that provide groundwater concentrations, and we evaluate groundwater concentrations of all compounds of concern, not just those that have exceeded soil-to-groundwater Medium-Specific Concentrations (MSCs). With respect to soil, the direct contact number was utilized for comparison based on the existing pathway of exposure.

**Additional Information Added to each answer above (from p. 10,11,15) based on PADEP's June 29, 2021 Comment Letter**

In accordance with the Act 2 regulations, soils must be delineated to the selected standard. Evergreen has developed a site specific standard (SSS) for lead in surface soils at the Site, but will update the

SSS if PADEP changes the assumptions and/or model for lead. The standard selected for lead in surface soils in the RIR was the site specific standard (SSS), which is why the RIRs presented lead delineation in relation to this standard. The RIRs also compared the lead data to either the statewide health non-residential soil to groundwater soil MSC and/or the statewide health non-residential direct contact soil MSCs in the tables and/or figures in the RIRs. Note that the AOI-10 RIR was submitted and approved prior to calculation of the lead SSS.

Evergreen prepared a response to the PADEP's June 29, 2021 Comment Letter on the Public Comment RIR which is posted to the Evergreen website to provide additional information to further address the questions above. The response provides additional details concerning characterization in soil including newly created lead figures which combine lead data collected from the RIRs with new data collected in 2021. Evergreen's responses present the data in relation to the statewide health direct contact standard, statewide health soil to groundwater standard and Evergreen's site specific standard. The information in Evergreen's response letter was generated to show all of the data in one series across the refinery to make it easier to view and clearly identifies soil concentrations compared to each of the standards. The public is encouraged to review this information for additional information pertaining to these questions.



**Comments identified by the PADEP in Comment #4 and #5 in the June 29, 2021 Comment Letter**

**Page 15-16 of the Public Comment RIR**

*The following questions are similar, so a combined answer was provided to address these related questions.*

**Question:**

This comment regards the benzene groundwater contamination on the Verizon SDWC property and subsequent properties. There does not seem to be sufficient sampling points located on the properties to the north of N-3 or west of V-MW-9 to accurately estimate the true extent of the plume. Similarly there appears to be insufficient data points to the north east of V-MW-16 on the north part of the Verizon SDWC property to properly determine a contaminant boundary. Was subsequent sampling and monitoring performed alongside I-76 or on the other side of the highway near the Philadelphia Housing Authority building to further delineate offsite impacts? Water level gradients seem to indicate slight a NE flow off of the Verizon SDWC that this report did not consider or investigate.

**Question:**

In addition the pump-and-treat system along Maiden Ln does not look like it changes the gradient of the plume that extends to the Verizon SDWC property and beyond. What is being done to properly delineate and mitigate this off-site benzene issue?

**Original Answer:**

The Verizon SDWC property is a separate remediation site. A Site Characterization Report indicating closure via a combination of the statewide health standard and site-specific standard was submitted by the property owners and approved in 2012. A subsequent site-specific standard Remedial Action Plan was approved in 2012. A Remedial Action Completion Report was submitted in 2015, in which they requested closure via a combination of statewide health, site-specific, and background standards due to impacts at the southern property boundary, which is across Maiden Lane from the former refinery. Groundwater gradient in the area between the Verizon property and the area of the remediation system along Maiden Lane is shallow, but we generally observe a groundwater flow pattern that indicates convergence in the vicinity of the AOI 8 boundary with Maiden Lane, near the Mifflin Street Sewer. The benzene dataset presented in Figure 9-2 of the AOI 8 RIR utilized maximum concentrations from 2014-2016 groundwater sampling, as this was the most comprehensive dataset at the time. It should be noted that benzene concentrations measured in groundwater varied through that time period (as low as 6.2 micrograms per liter (ug/L) in a V-MW-9 groundwater sample on March 16, 2016; benzene was not detected in well N-3 groundwater samples on June 2, 2014, March 17, 2016, and May 27, 2016; benzene was not detected in well V-MW-16 groundwater samples on April 17, 2014, June 25, 2014, September 5, 2014, and March 16, 2016 (See AOI 8 RIR Table 4-2). An overall decreasing benzene trend in this area was demonstrated in the RIR in Figure 9-5b. Subsequent gauging and sampling support the RIR interpretations of groundwater flow patterns in this area and indicates recent N-3 benzene concentrations ranging from non-detect to 6.75 ug/L in groundwater. We will continue to monitor the area wells and incorporate data into future modeling efforts. A horizontal recovery well was installed in that area for the purpose of LNAPL recovery as well as to mitigate any potential migration of dissolved contaminants away from AOI 8. The treatment system in that location was started up in January 2021. Therefore, you would not have seen any changes in the groundwater gradient as a result of pumping in reports submitted prior to that time.

## **Page 27 of the Public Comment RIR**

### **Question:**

There is a benzene pool that extends toward residential neighborhoods of South Philadelphia. In June 2019, PES reported fence line measurements of benzene above regulatory limits. What's the situation? What corrective actions have been taken?

### **Original Answer:**

Dissolved benzene in groundwater (otherwise known as a benzene groundwater plume) is present at the former Philadelphia Refinery. The RIRs summarize the benzene in groundwater that Evergreen has characterized as part of the Act 2 investigations. For example, the AOI 1 RIR presents details concerning benzene in groundwater along the eastern boundary of the former Philadelphia Refinery. These reports also summarize the interim remedial activities to address environmental impacts, including groundwater and vapor remediation systems that exist along the property boundary on 26th Street. Part of the Act 2 processes include evaluating potential impact to off-site properties, including residences. These evaluations show that the dissolved benzene impacted groundwater beneath AOI 1 is not likely to migrate under nearby residential areas, and that there are no air impacts from the benzene groundwater plume to off-site properties. Evergreen prepared an overall summary slide of benzene in groundwater beneath the whole facility due to on-site and off-site sources for presentation during the November 2019 public meeting. The presentation is posted to Evergreen's website (<https://phillyrefinerycleanup.info/>). PES, as owner and operator of the facility, was required to report fence line measurements of benzene based on air emissions from PES' operations. This air monitoring is unrelated to the subsurface benzene groundwater plume and Evergreen does not have the information to be able to address the portion of your question related to the 2019 PES-reported fence line monitoring.

## **Page 43 of the Public Comment RIR**

### **Question:**

Off-Site Contamination - Benzene pools extend beyond the property fence line but have not been mapped. Evergreen fails to acknowledge potential responsibility for cleaning up off-site contamination of benzene or other contaminants.

### **Original Answer:**

The RIRs and figures presented during the August 27, 2020, Public Information Session show the known extent of dissolved benzene on- and off-site. Evergreen will be including additional off-site groundwater information in the AOI 9 and AOI 4 RIR Addendums. As addressed in previous comments, no off-site air impacts have been identified from off-site groundwater related to historic environmental impacts that Evergreen is evaluating under Act 2. Evergreen has acknowledged the benzene due to on-site sources and identified that there are other neighboring, contaminated sites that are also contributing to the observed off-site site groundwater impacts.

### **Additional Information Added to each answer above (from p. 15-16, 27, 43) based on PADEP's June 29, 2021 Comment Letter**

To further address and provide more detail for the questions above, Evergreen prepared a response to the PADEP's June 29, 2021 Comment Letter on the Public Comment RIR which is posted to the Evergreen website. This response provides additional details of the information included in the RIRs which discuss benzene in groundwater in relation to AOI 8, as well as Site-wide. The AOI 8 RIR identified the extent of the benzene plume, including offsite impacts, and identified this as an area for

continued monitoring and evaluation and the figures showing the extent of benzene in groundwater from the AOI 8 RIR are included in Evergreen's response. These figures used the most comprehensive dataset at the time (meaning it included other offsite groundwater information).so they are an intentionally conservative snapshot of conditions. In addition, Section 10.4 of the AOI 8 RIR identifies presence of light non-aqueous phase liquid (LNAPL) (petroleum on top of the groundwater) beneath the Verizon SDWC property. Section 13.2.1 of the AOI 8 RIR identifies that there is a an offsite benzene plume that Evergreen will continue to monitor and Evergreen intends to use the information in the quantitative fate and transport modeling (Fate and Transport RIR).

In addition to AOI 8 RIR, the extent of benzene in groundwater has been shown in all past RIRs, including where it is known to go beyond the property boundary. The public is referred to the detailed figures in the RIRs or in Evergreen's August 28, 2021 response for additional detail. The August 28, 2021 letter provides groundwater quality maps for each of the AOI's as presented in past RIRs as wells as additional written detail on groundwater characterization. Evergreen has continued to collect groundwater data since the RIRs, and utilized these data to generate a Sitewide benzene figure that was presented during the August 27, 2020 Public Meeting, which is posted to the website, which shows the entire benzene plume beneath the facility. This figure shows that there is offsite benzene at some locations and that there are also offsite non-Evergreen sources for benzene in offsite groundwater. Additional data collection is also ongoing to further document offsite conditions as will be reported in the AOI 4 RIR to be submitted on September 30, 2021. The Fate & Transport RIR will complete the remedial investigation for the Site and as such will present groundwater delineation for all COCs, including benzene, for the Site. The public is encouraged to review this information for additional information pertaining to these questions.

**Comments identified by the PADEP in Comment #6 in the June 29, 2021 Comment Letter**

**Page 77 of the Public Comment RIR**

Various docks have handled ships since 1866. Multiple fires have occurred on ships over the years. What is the condition of the land along the waterfront?

**Original Answer:**

The environmental impacts that have been characterized during Evergreen's Act 2 investigations along the waterfront are presented in the RIRs, specifically in AOIs 2, 3, 5, 6, 7, 8, 9 and 10.

**Additional Information Added to each answer above (from p. 77) based on PADEP's June 29, 2021 Comment Letter**

Additional information compiled to provide more detail to answer the question above is provided in a response letter prepared by Evergreen, dated August 28, 2021, which is posted to the website. Evergreen prepared the response to address PADEP's June 29, 2021 Comment Letter on the Public Comment RIR which is also posted to the Evergreen website. This response provides additional details of the information included in the RIRs which discuss soil data in the vicinity of the waterfront. Evergreen created four Site-wide summary figures for soil to more clearly show soil quality along the river, which are included in Evergreen's response. These figures compared all soil data the non-residential direct contact MSC and the non-residential soil to groundwater MSC. Upon review of these Figures included in Evergreen's response, and focusing on soil results along the waterfront, or along the river, the following observations can be made:

- In surface soils (0 to 2 feet below grade) – multiple samples had at least one COC that was above the direct contact MSC and 20 samples had at least one COC above the soil to groundwater MSC.
- In sub-surface soils (Below 2 feet below grade) – none of the samples had any COCs that were above the direct contact MSC and multiple samples had at least one COC above the soil to groundwater MSC.

The exceedances of the soil to groundwater MSCs will be further evaluated via the groundwater pathway, with groundwater analysis in the Fate and Transport RIR. Samples with exceedances of the direct contact pathway standards will be evaluated in relation to potential remedial measures in future Act 2 Clean-up Plans. To view all of the detailed soil maps and tables, the reader is referred to the individual AOI maps and tables in the RIRs. The public is encouraged to review this information for additional information pertaining to these questions.

**Summary of Well Search  
Philadelphia Refining Complex  
Philadelphia, PA  
October 7, 2019**

On September 28, 2017, Stantec conducted a well search for the Philadelphia Energy Solutions Refining and Marketing, LLC (PES) Philadelphia Refining Complex (Complex) using the Pennsylvania Groundwater Information System (PaGWIS) online database for the purpose of identifying potable water supply wells. The well search, which included ten Areas of Interest (AOIs 1 through 10) of the PES Complex and the adjacent Sunoco Partners Marketing & Terminals L.P. Belmont Terminal, included a buffer zone extending one mile from the PES Complex boundaries as shown on **Figure 1**. A detailed review of the search results was conducted in order to determine if any wells in the search area might serve as a potential potable water source to human receptors. A table of search results is provided as **Table 1**.

Although the PaGWIS online database provides useful well information, it does not provide sensitive information pertaining to the locations of any potential public water supply wells located within the well search area. For that purpose, a secondary search of the Pennsylvania Department of Environmental Protection (PADEP) eMapPA GIS mapping tool [website: <http://www.depgis.state.pa.us/emappa/>] was performed by Stantec on November 3, 2017, within the same one-mile buffer zone in an attempt to obtain any information pertaining to potential potable water supply wells (i.e., public water systems designated by PADEP). Wells identified from either digital resource were evaluated for exclusion from potable water supply consideration based on the following criteria:

1. Well Use, Water Use, Well Activity Type, and Remarks
2. Well Ownership Information
3. Location of well determined to be greater than one mile from property boundary
4. Confirm well type and location from the individual well completion report (links provided in database search results).

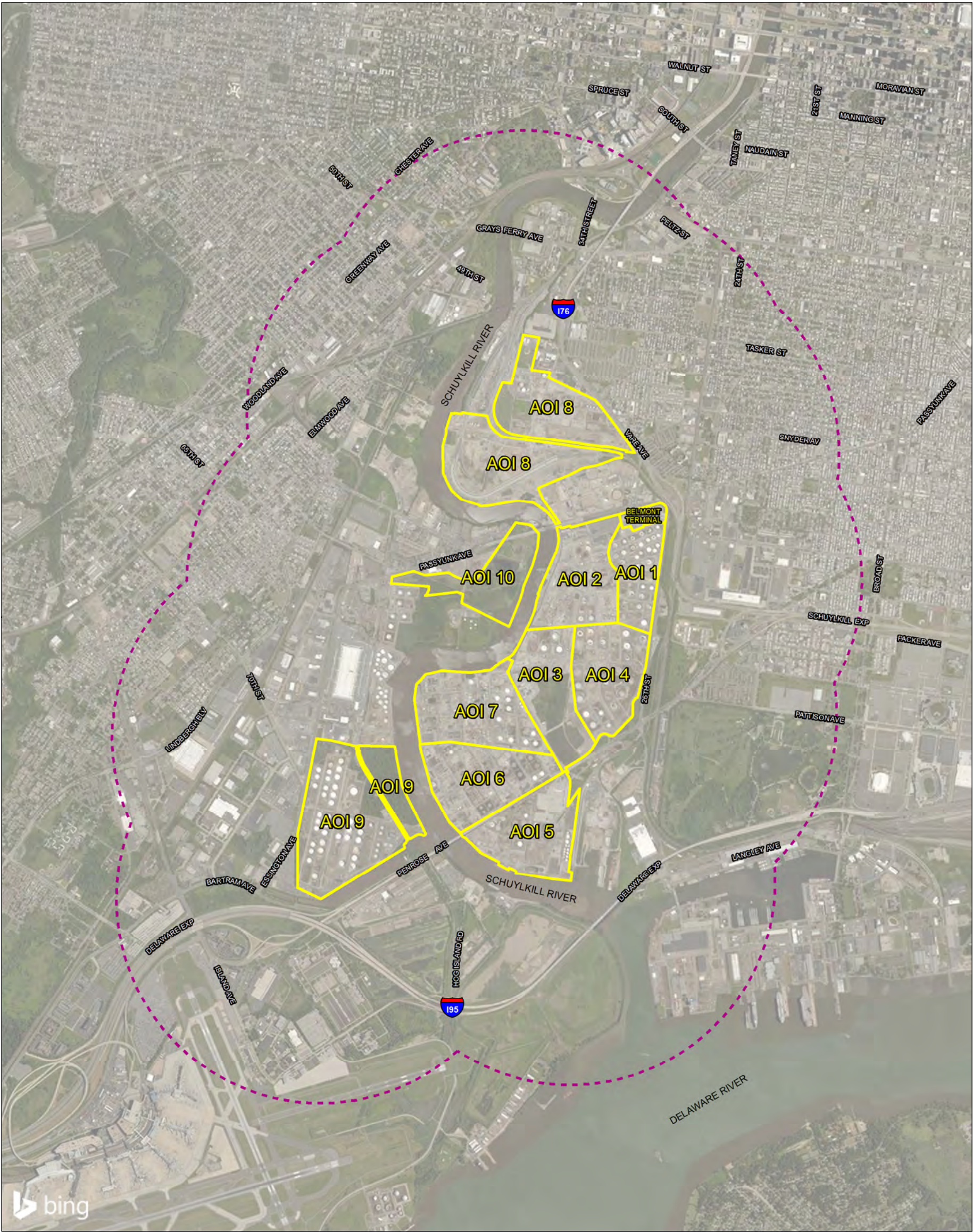
Based on the above public information sources and exclusion criteria, 14 wells were identified and considered potential sources of potable water within the search area. The 14 well targets were identified by PaGWIS as the eMapPA search tool did not produce any results for groundwater supply wells within the search zone. The 14 PaGWIS well records were extracted into a separate table (**Table 2**). Seven of these wells (PA Well ID # 29734, 29737, 29738, 29742, 29743, 29744, 30374) are listed as dewatering wells for the City of Philadelphia. Similar wells for the City of Philadelphia, installed in the early 1980s, have been listed as destroyed. During two reconnaissance site visits in January 2018 and June 2018, Stantec personnel were unable to locate any of the wells. Therefore, it is likely that these wells have also since been destroyed and were not used historically for potable supply.

Four withdrawal wells (PA Well ID # 48193, 48194, 48195, 48196) are listed to be present on the Philadelphia International Airport Property located to the south of AOI 9 of the PES Complex. These are groundwater extraction wells associated with remediation at the Enterprise Avenue Landfill site and as such, are unlikely to pose risk to human health (according to personal communication with Weston Solutions in 2017, the wells are not presently operated).

The remaining three wells (PA Well ID# 291859, 291860, 291880) are listed in PaGWIS as water supply or irrigation wells for commercial properties. In order to confirm the existence of these wells, Stantec conducted field reconnaissance on November 7, 2018. Stantec field personnel were not able to find two of the wells (PA Well ID #291859 and #291860) on the listed properties, and the property owners were not aware of any wells in existence or formerly used. As a result, it can be reasonably concluded that these wells are not being used as potable water supply wells. Due to safety concerns, Stantec personnel were not able to approach the property where the last well (PA Well # 291880) was listed to be located. The property appeared to be abandoned; therefore, it is likely that the well is destroyed and/or not being used as a potable supply well.

It is important to note that two pieces of City of Philadelphia code prohibit the use of water for potable supply from certain sources and/or without specific approval. Title 6 (Health Code), Chapter 6-400 (Miscellaneous Standards and Requirements) § 6.402(7) (Business, Professional, and Community Controls; Water and Ice) of The Philadelphia Code generally states that potable water (for human consumption) must come from a Pennsylvania Department of Health approved public water supply system or a system that must meet requirements prescribed by the City of Philadelphia Board of Health. Additionally, the 2004 Philadelphia Plumbing Code Chapter 8 (Water Supply and Distribution), Section P-802.1 (Quality of Water Supply for Potable Water) states that all water for human consumption (including food preparation and for washing purposes) must conform to the above Health Code and any regulations promulgated thereafter. Based on the City of Philadelphia Health Code, Philadelphia Plumbing Code, detailed records review, and field reconnaissance, it is Stantec's opinion that the probability of any potable supply wells in use and/or existence within the PES Complex search area is low.





- LEGEND**
- SEARCH AREA (1-MILE FROM PHILADELPHIA REFINING COMPLEX BOUNDARY)
  - AREA OF INTEREST (AOI) BOUNDARY

0 0.25 0.5  
Miles  
1:31,680 (At Original document size of 11x17)



Project Location  
City of Philadelphia,  
Philadelphia County,  
Pennsylvania

Client/Project  
PHILADELPHIA REFINERY OPERATIONS, A SERIES OF  
EVERGREEN RESOURCES GROUP, LLC  
PHILADELPHIA REFINING COMPLEX  
3144 PASSYUNK AVENUE, PHILADELPHIA, PA 19145

Figure No.  
1  
Title

WELL SEARCH AREA

Notes

- Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet
- Sources: Stantec
- Service Layer Credits: © 2019 Microsoft Corporation © 2019 DigitalGlobe © CNES (2019) Distribution Airbus DS Copyright: © 2013 National Geographic Society, i-cubed Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation

Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data.



PaGWIS Database Information															Data Analysis			
PAWELLID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	PaperImageLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
29728	PHILADELPHIA			1/1/1984		39.88389	-75.21472	UNKNOWN	PENN DOT	OBSERVATION	OTHER	TRENTON GRAVEL		OBSERVATION WELL FOR I-95 QW MONITORING	X			
29729	PHILADELPHIA			1/1/1984		39.88389	-75.21472	UNKNOWN	PENN DOT	OBSERVATION	OTHER	MAGOTHY-RARITAN-POTON		OBSERVATION WELL FOR I-95 QW MONITORING	X			
29730	PHILADELPHIA			9/8/1981		39.88417	-75.21222	A C SCHULTES & SONS	CITY OF PHILA	TEST					X			
29731	PHILADELPHIA			7/1/1944		39.88611	-75.19722	ARTESIAN WELL DRLG CO	U S NAVY	DESTROYED	UNUSED	TRENTON GRAVEL			X			
29732	PHILADELPHIA			1/1/1981		39.88694	-75.21333	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
29732	PHILADELPHIA			1/1/1981		39.88694	-75.21333	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
29732	PHILADELPHIA			1/1/1981		39.88694	-75.21333	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
29732	PHILADELPHIA			1/1/1981		39.88694	-75.21333	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
29733	PHILADELPHIA			1/1/1981		39.88694	-75.21333	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	TRENTON GRAVEL			X			
29733	PHILADELPHIA			1/1/1981		39.88694	-75.21333	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	TRENTON GRAVEL			X			
29733	PHILADELPHIA			1/1/1981		39.88694	-75.21333	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	TRENTON GRAVEL			X			
29733	PHILADELPHIA			1/1/1981		39.88694	-75.21333	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	TRENTON GRAVEL			X			
29734	PHILADELPHIA			3/1/1980		39.88833	-75.22139	GRIFFIN WELL POINT	CITY OF PHILA	WITHDRAWAL	DEWATER	TRENTON GRAVEL			X			
29735	PHILADELPHIA			1/1/1981		39.88861	-75.21917	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
29735	PHILADELPHIA			1/1/1981		39.88861	-75.21917	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
29735	PHILADELPHIA			1/1/1981		39.88861	-75.21917	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
29736	PHILADELPHIA			1/1/1981		39.88861	-75.21917	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	TRENTON GRAVEL			X			
29736	PHILADELPHIA			1/1/1981		39.88861	-75.21917	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	TRENTON GRAVEL			X			
29736	PHILADELPHIA			1/1/1981		39.88861	-75.21917	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	TRENTON GRAVEL			X			
29737	PHILADELPHIA			3/1/1980		39.88861	-75.22083	GRIFFIN WELL POINT	CITY OF PHILA	WITHDRAWAL	DEWATER	TRENTON GRAVEL			X			
29738	PHILADELPHIA			3/1/1980		39.88861	-75.22139	GRIFFIN WELL POINT	CITY OF PHILA	WITHDRAWAL	DEWATER	TRENTON GRAVEL			X			
29739	PHILADELPHIA			1/1/1981		39.88889	-75.2175	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
29739	PHILADELPHIA			1/1/1981		39.88889	-75.2175	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
29739	PHILADELPHIA			1/1/1981		39.88889	-75.2175	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
29739	PHILADELPHIA			1/1/1981		39.88889	-75.2175	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
29740	PHILADELPHIA			1/1/1981		39.88889	-75.2175	A C SCHULTES & SONS	CITY OF PHILA	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			



Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
29805	PHILADELPHIA			1/1/1914		39.90972	-75.19111	THOMAS B HARPER	BROOKE H	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
29808	PHILADELPHIA			6/24/1987		39.91083	-75.19583	AC SCHULTES INC	ARCO PETROLEUM PROD CO	WITHDRAWAL	OTHER	TRENTON GRAVEL				X		
29812	PHILADELPHIA					39.91361	-75.20028	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	UNKNOWN			X	X		
29813	PHILADELPHIA			1/5/1938		39.91389	-75.20917	RIDPATH AND POTTER COMPANY	WFL TRANSMISSION ST	DESTROYED	UNUSED	TRENTON GRAVEL			X			
29815	PHILADELPHIA					39.915	-75.20306	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	UNKNOWN			X	X		
29824	PHILADELPHIA			1/1/1937		39.91944	-75.19583	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X	X		
29824	PHILADELPHIA			1/1/1937		39.91944	-75.19583	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X	X		
29827	PHILADELPHIA					39.92	-75.19333	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X	X		
29827	PHILADELPHIA					39.92	-75.19333	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X	X		
29831	PHILADELPHIA					39.92028	-75.19417	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X	X		
29831	PHILADELPHIA					39.92028	-75.19417	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X	X		
29832	PHILADELPHIA			1/1/1925		39.92056	-75.1925	LAYNE CHRISTENSEN COMPANY	ATLANTIC REFINING CO	DESTROYED	UNUSED	TRENTON GRAVEL			X	X		
29832	PHILADELPHIA			1/1/1925		39.92056	-75.1925	LAYNE CHRISTENSEN COMPANY	ATLANTIC REFINING CO	DESTROYED	UNUSED	TRENTON GRAVEL			X	X		
29840	PHILADELPHIA			1/1/1930		39.92083	-75.19278	ARTESIAN WELL DRIG CO	ATLANTIC REFINING CO	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X	X		
29840	PHILADELPHIA			1/1/1930		39.92083	-75.19278	ARTESIAN WELL DRIG CO	ATLANTIC REFINING CO	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X	X		
29845	PHILADELPHIA			1/1/1923		39.92139	-75.18889	QUINN & HERRON	JARDIN BRICK CO	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
29848	PHILADELPHIA			1/1/1908		39.92167	-75.18861	QUINN & HERRON	JARDIN BRICK CO	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
29849	PHILADELPHIA			1/1/1906		39.92167	-75.18889	QUINN & HERRON	JARDIN BRICK CO	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
29855	PHILADELPHIA			#####		39.92333	-75.21972	RIDPATH AND POTTER COMPANY	REGAL PETROLEUM PROD	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
29857	PHILADELPHIA					39.92389	-75.20278	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	TRENTON GRAVEL			X	X		
29860	PHILADELPHIA			1/1/1933		39.92444	-75.20583	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	TRENTON GRAVEL			X	X		
29862	PHILADELPHIA					39.92472	-75.19889	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	TRENTON GRAVEL			X	X		
29863	PHILADELPHIA					39.92472	-75.20639	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	WISSAHICKON FORMATION			X	X		
29863	PHILADELPHIA					39.92472	-75.20639	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	WISSAHICKON FORMATION			X	X		
29865	PHILADELPHIA			1/1/1921		39.925	-75.20667	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	WISSAHICKON FORMATION			X	X		
29865	PHILADELPHIA			1/1/1921		39.925	-75.20667	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	WISSAHICKON FORMATION			X	X		
29875	PHILADELPHIA			7/1/1979		39.92694	-75.205	UNKNOWN	ATLANTIC RICHFIELD C	OBSERVATION	UNUSED	TRENTON GRAVEL			X	X		
29876	PHILADELPHIA					39.92722	-75.20306	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	TRENTON GRAVEL			X	X		
29877	PHILADELPHIA			1/1/1977		39.92722	-75.20667	UNKNOWN	ATLANTIC RICHFIELD C	OBSERVATION	UNUSED	TRENTON GRAVEL			X	X		
29881	PHILADELPHIA					39.92944	-75.18528	UNKNOWN	BREEZE THEATER	DESTROYED	UNUSED	TRENTON GRAVEL			X			
29886	PHILADELPHIA			1/1/1916		39.93194	-75.18639	ARTESIAN WELL DRIG CO	AMERICAN ICE CO	DESTROYED	UNUSED	TRENTON GRAVEL			X			
29892	PHILADELPHIA			1/1/1919		39.93444	-75.18694	THOMAS B HARPER	FLEISHER IND CENTER	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
29893	PHILADELPHIA			1/1/1920		39.93472	-75.18667	THOMAS B HARPER	FLEISHER IND CENTER	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
29894	PHILADELPHIA			1/1/1919		39.935	-75.18722	THOMAS B HARPER	FLEISHER IND CENTER	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
29895	PHILADELPHIA			01/01/1897		39.935	-75.19917	THOMAS B HARPER	EDMUND WEBSTERS BRIC	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
29896	PHILADELPHIA			1/1/1906		39.93528	-75.2125	THOMAS B HARPER	JOS RYERSON & SON IN	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
29898	PHILADELPHIA			1/1/1902		39.93556	-75.21222	THOMAS B HARPER	JOS RYERSON & SON IN	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
29900	PHILADELPHIA			8/3/1940		39.93583	-75.19056	LAYNE CHRISTENSEN COMPANY	EARL THEATER	DESTROYED	UNUSED	TRENTON GRAVEL			X			
29900	PHILADELPHIA			8/3/1940		39.93583	-75.19056	LAYNE CHRISTENSEN COMPANY	EARL THEATER	DESTROYED	UNUSED	TRENTON GRAVEL			X			
29901	PHILADELPHIA			1/1/1905		39.93611	-75.20694	QUINN & HERRON	CITY OF PHILA	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
29904	PHILADELPHIA			1/1/1934		39.93694	-75.19833	ARTESIAN WELL DRIG CO	PURITAN LOOMS	DESTROYED	UNUSED	TRENTON GRAVEL			X			
29905	PHILADELPHIA			4/24/1951		39.93722	-75.20083	RIDPATH AND POTTER COMPANY	MILLAR BROS & CO	UNUSED	UNUSED	WISSAHICKON FORMATION			X			
29915	PHILADELPHIA			#####		39.93833	-75.20389	XOHL BROS. INC	ANDERSON INC	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
29916	PHILADELPHIA			1/1/1902		39.93861	-75.18556	THOMAS B HARPER	AMERICAN ICE CO	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
29917	PHILADELPHIA			12/1/1940		39.93917	-75.185	JOHN RULON	PA RANGE & BOILER CO	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
29918	PHILADELPHIA			5/1/1930		39.93944	-75.19139	JOHN RULON	HENRY BOWER CHEMICAL	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
29918	PHILADELPHIA			5/1/1930		39.93944	-75.19139	JOHN RULON	HENRY BOWER CHEMICAL	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
29918	PHILADELPHIA			5/1/1930		39.93944	-75.19139	JOHN RULON	HENRY BOWER CHEMICAL	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
29918	PHILADELPHIA			5/1/1930		39.93944	-75.19139	JOHN RULON	HENRY BOWER CHEMICAL	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
29920	PHILADELPHIA			3/19/1938		39.94083	-75.19139	RIDPATH AND POTTER COMPANY	VICTOR DAIRIES INC	UNUSED	UNUSED	WISSAHICKON FORMATION			X			
29924	PHILADELPHIA			1/1/1929		39.94167	-75.19194	ARTESIAN WELL DRIG CO	HYMAN BRODSKY & SON	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
29925	PHILADELPHIA			2/1/1931		39.94167	-75.2025	JOHN RULON	PHILA ABATTOIR CO	UNUSED	UNUSED	WISSAHICKON FORMATION			X			
29926	PHILADELPHIA			1/1/1919		39.94167	-75.20472	THOMAS B HARPER	F G VOGT & SONS	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
29927	PHILADELPHIA			1/1/1919		39.94194	-75.20472	THOMAS B HARPER	F G VOGT & SONS	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
29930	PHILADELPHIA			1/1/1914		39.94222	-75.20444	THOMAS B HARPER	F G VOGT & SONS	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
29937	PHILADELPHIA			1/1/1923		39.94417	-75.20667	JOHN RULON	BREYER ICE CREAM CO	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
29937	PHILADELPHIA			1/1/1923		39.94417	-75.20667	THOMAS B HARPER	BREYER ICE CREAM CO	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
30374	PHILADELPHIA			3/1/1980		39.88833	-75.22083	GRIFFIN WELL POINT	CITY OF PHILA	WITHDRAWAL	DEWATER	TRENTON GRAVEL			X			
30376	PHILADELPHIA			4/21/1942		39.88972	-75.18556	LAYNE CHRISTENSEN COMPANY	U S NAVY	UNUSED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30376	PHILADELPHIA			4/21/1942		39.88972	-75.18556	LAYNE CHRISTENSEN COMPANY	U S NAVY	UNUSED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30376	PHILADELPHIA			4/21/1942		39.88972	-75.18556	LAYNE CHRISTENSEN COMPANY	U S NAVY	UNUSED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30378	PHILADELPHIA			4/18/1952		39.89056	-75.23389	RIDPATH AND POTTER COMPANY	DEPALMA ALFONSO	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30391	PHILADELPHIA			6/20/1942		39.89667	-75.18306	LAYNE CHRISTENSEN COMPANY	U S NAVY	UNUSED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30391	PHILADELPHIA			6/20/1942		39.89667	-75.18306	LAYNE CHRISTENSEN COMPANY	U S NAVY	UNUSED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30391	PHILADELPHIA			6/20/1942		39.89667	-75.18306	LAYNE CHRISTENSEN COMPANY	U S NAVY	UNUSED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30391	PHILADELPHIA			6/20/1942		39.89667	-75.18306	LAYNE CHRISTENSEN COMPANY	U S NAVY	UNUSED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30391	PHILADELPHIA			6/20/1942		39.89667	-75.18306	LAYNE CHRISTENSEN COMPANY	U S NAVY	UNUSED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30391	PHILADELPHIA			6/20/1942		39.89667	-75.18306	LAYNE CHRISTENSEN COMPANY	U S NAVY	UNUSED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30391	PHILADELPHIA			6/20/1942		39.89667	-75.18306	LAYNE CHRISTENSEN COMPANY	U S NAVY	UNUSED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30396	PHILADELPHIA			1/1/1919		39.90028	-75.17889	ARTESIAN WELL DRIG CO	LEAGUE ISLAND PARK	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30397	PHILADELPHIA			1/1/1919		39.90083	-75.18028	ARTESIAN WELL DRIG CO	LEAGUE ISLAND PARK	DESTROYED	UNUSED	TRENTON GRAVEL			X			
30398	PHILADELPHIA			1/1/1946		39.90278	-75.20194	JOHN RULON	GULF OIL CORP	WITHDRAWAL	INDUSTRIAL	MAGOTHY-RARITAN-POTON			X	X		

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
30398	PHILADELPHIA			1/1/1946		39.90278	-75.20194	JOHN RULON	GULF OIL CORP	WITHDRAWAL	INDUSTRIAL	MAGOTHY-RARITAN-POTON			X	X		
30399	PHILADELPHIA			3/1/1946		39.90278	-75.20194	JOHN RULON	GULF OIL CORP	WITHDRAWAL	INDUSTRIAL	MAGOTHY-RARITAN-POTON			X	X		
30399	PHILADELPHIA			3/1/1946		39.90278	-75.20194	JOHN RULON	GULF OIL CORP	WITHDRAWAL	INDUSTRIAL	MAGOTHY-RARITAN-POTON			X	X		
30400	PHILADELPHIA			8/7/1942		39.90722	-75.17722	LAYNE CHRISTENSEN COMPANY	U S NAVAL HOSPITAL	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30400	PHILADELPHIA			8/7/1942		39.90722	-75.17722	LAYNE CHRISTENSEN COMPANY	U S NAVAL HOSPITAL	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30400	PHILADELPHIA			8/7/1942		39.90722	-75.17722	LAYNE CHRISTENSEN COMPANY	U S NAVAL HOSPITAL	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30402	PHILADELPHIA			9/11/1942		39.90806	-75.18056	LAYNE CHRISTENSEN COMPANY	U S NAVAL HOSPITAL	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30402	PHILADELPHIA			9/11/1942		39.90806	-75.18056	LAYNE CHRISTENSEN COMPANY	U S NAVAL HOSPITAL	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30402	PHILADELPHIA			9/11/1942		39.90806	-75.18056	LAYNE CHRISTENSEN COMPANY	U S NAVAL HOSPITAL	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30402	PHILADELPHIA			9/11/1942		39.90806	-75.18056	LAYNE CHRISTENSEN COMPANY	U S NAVAL HOSPITAL	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30402	PHILADELPHIA			9/11/1942		39.90806	-75.18056	LAYNE CHRISTENSEN COMPANY	U S NAVAL HOSPITAL	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30402	PHILADELPHIA			9/11/1942		39.90806	-75.18056	LAYNE CHRISTENSEN COMPANY	U S NAVAL HOSPITAL	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30404	PHILADELPHIA			12/2/1946		39.90833	-75.23194	UNKNOWN	HOG ISLAND LUMBER CO	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
30414	PHILADELPHIA			1/1/1903		39.91222	-75.19972	THOMAS B HARPER	PRINTZ DEGREASING CO	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
30421	PHILADELPHIA			4/20/1976		39.91639	-75.23472	UNKNOWN	CITY OF PHILA	OBSERVATION	UNUSED	TRENTON GRAVEL		191 JUSTIN AND COURTNEY CONSULTANTS	X			
30422	PHILADELPHIA			1/1/1912		39.9175	-75.18222	THOMAS B HARPER	GIRARD ESTATE	UNUSED	UNUSED	WISSAHICKON FORMATION			X			
30430	PHILADELPHIA			1/1/1933		39.92222	-75.19722	ARTESIAN WELL DRILG CO	MIRTO CULLET SUPPLY	DESTROYED	UNUSED	TRENTON GRAVEL			X			
30431	PHILADELPHIA			1/1/1915		39.92278	-75.19972	UNKNOWN	PHILA GAS WORKS	UNUSED	UNUSED	WISSAHICKON FORMATION			X	X		
30431	PHILADELPHIA			1/1/1915		39.92278	-75.19972	UNKNOWN	PHILA GAS WORKS	UNUSED	UNUSED	WISSAHICKON FORMATION			X	X		
30439	PHILADELPHIA			2/15/1946		39.92583	-75.2025	RIDPATH AND POTTER COMPANY	ATLANTIC REFINING CO	UNUSED	UNUSED	MAGOTHY-RARITAN-POTON			X	X		
30439	PHILADELPHIA			2/15/1946		39.92583	-75.2025	RIDPATH AND POTTER COMPANY	ATLANTIC REFINING CO	UNUSED	UNUSED	MAGOTHY-RARITAN-POTON			X	X		
30439	PHILADELPHIA			2/15/1946		39.92583	-75.2025	RIDPATH AND POTTER COMPANY	ATLANTIC REFINING CO	UNUSED	UNUSED	MAGOTHY-RARITAN-POTON			X	X		
30442	PHILADELPHIA			6/1/1936		39.92611	-75.185	RIDPATH AND POTTER COMPANY	PRESIDENT THEATER	UNUSED	UNUSED	TRENTON GRAVEL			X			
30442	PHILADELPHIA			6/1/1936		39.92611	-75.185	RIDPATH AND POTTER COMPANY	PRESIDENT THEATER	UNUSED	UNUSED	TRENTON GRAVEL			X			
30443	PHILADELPHIA			1/1/1904		39.92639	-75.20389	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	TRENTON GRAVEL			X	X		
30443	PHILADELPHIA			1/1/1904		39.92639	-75.20389	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	TRENTON GRAVEL			X	X		
30444	PHILADELPHIA			7/30/1948		39.92667	-75.20333	RIDPATH AND POTTER COMPANY	ATLANTIC REFINING CO	DESTROYED	UNUSED	TRENTON GRAVEL			X	X		
30444	PHILADELPHIA			7/30/1948		39.92667	-75.20333	RIDPATH AND POTTER COMPANY	ATLANTIC REFINING CO	DESTROYED	UNUSED	TRENTON GRAVEL			X	X		
30444	PHILADELPHIA			7/30/1948		39.92667	-75.20333	RIDPATH AND POTTER COMPANY	ATLANTIC REFINING CO	DESTROYED	UNUSED	TRENTON GRAVEL			X	X		
30444	PHILADELPHIA			7/30/1948		39.92667	-75.20333	RIDPATH AND POTTER COMPANY	ATLANTIC REFINING CO	DESTROYED	UNUSED	TRENTON GRAVEL			X	X		
30446	PHILADELPHIA			1/1/1921		39.92806	-75.20306	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	TRENTON GRAVEL			X	X		
30446	PHILADELPHIA			1/1/1921		39.92806	-75.20306	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	TRENTON GRAVEL			X	X		
30446	PHILADELPHIA			1/1/1921		39.92806	-75.20306	UNKNOWN	ATLANTIC REFINING CO	DESTROYED	UNUSED	TRENTON GRAVEL			X	X		
30460	PHILADELPHIA			5/27/1936		39.93667	-75.19917	RIDPATH AND POTTER COMPANY	COCA-COLA BOTTLING C	DESTROYED	UNUSED	WISSAHICKON FORMATION			X			
30462	PHILADELPHIA			1/1/1904		39.93722	-75.20389	RIDPATH AND POTTER COMPANY	ZUCKERMAN & HONICKMA	UNUSED	UNUSED	WISSAHICKON FORMATION			X			
30467	PHILADELPHIA			1/1/1934		39.93944	-75.19139	ARTESIAN WELL DRILG CO	HENRY BOWER CHEMICAL	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30468	PHILADELPHIA			7/30/1974		39.93944	-75.19944	THOMAS G KEYES INC	SEABOARD SUPPLY CO	UNUSED	UNUSED	WISSAHICKON FORMATION			X			
30468	PHILADELPHIA			7/30/1974		39.93944	-75.19944	THOMAS G KEYES INC	SEABOARD SUPPLY CO	UNUSED	UNUSED	WISSAHICKON FORMATION			X			
30470	PHILADELPHIA			1/1/1946		39.93972	-75.19167	ARTESIAN WELL DRILG CO	HENRY BOWER CHEMICAL	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
30470	PHILADELPHIA			1/1/1946		39.93972	-75.19167	ARTESIAN WELL DRILG CO	HENRY BOWER CHEMICAL	DESTROYED	UNUSED	MAGOTHY-RARITAN-POTON			X			
48191				2/28/1994		39.88111	-75.22111	CHESAPEAKE GEOSYSTEMS INC.	PHILA DEPT OF AVIATION	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
48191				2/28/1994		39.88111	-75.22111	CHESAPEAKE GEOSYSTEMS INC.	PHILA DEPT OF AVIATION	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
48193				6/27/1996		39.88167	-75.21861	NFE INC	PHILA DEPT OF AVIATION	WITHDRAWAL	OTHER	TRENTON GRAVEL						
48194				6/26/1996		39.88222	-75.21917	NFE INC	PHILA DEPT OF AVIATION	WITHDRAWAL	OTHER	TRENTON GRAVEL						
48195				7/1/1996		39.88278	-75.21833	NFE INC	PHILA DEPT OF AVIATION	WITHDRAWAL	OTHER	TRENTON GRAVEL						
48196				7/3/1996		39.88389	-75.21722	NFE INC	PHILA DEPT OF AVIATION	WITHDRAWAL	OTHER	TRENTON GRAVEL						
48197				2/16/1994		39.88472	-75.21861	CHESAPEAKE GEOSYSTEMS INC.	PHILA DEPT OF AVIATION	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
48197				2/16/1994		39.88472	-75.21861	CHESAPEAKE GEOSYSTEMS INC.	PHILA DEPT OF AVIATION	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
48198				2/2/1994		39.88528	-75.21278	CHESAPEAKE GEOSYSTEMS INC.	PHILA DEPT OF AVIATION	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
48198				2/2/1994		39.88528	-75.21278	CHESAPEAKE GEOSYSTEMS INC.	PHILA DEPT OF AVIATION	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
48198				2/2/1994		39.88528	-75.21278	CHESAPEAKE GEOSYSTEMS INC.	PHILA DEPT OF AVIATION	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X			
48199				3/14/1994		39.90667	-75.19444	EMPIRE SOILS INVESTIGATIONS INC	SUN COMPANY	OBSERVATION	UNUSED	TRENTON GRAVEL			X	X		
48200				3/2/1994		39.90889	-75.20528	EMPIRE SOILS INVESTIGATIONS INC	SUN COMPANY	OBSERVATION	UNUSED	TRENTON GRAVEL			X	X		
48201				8/18/1995		39.91556	-75.20278	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48202				8/10/1995		39.91556	-75.20278	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48203				3/4/1994		39.91844	-75.19972	EMPIRE SOILS INVESTIGATIONS INC	SUN COMPANY	OBSERVATION	UNUSED	MAGOTHY-RARITAN-POTON			X	X		
48204				2/25/1994		39.92806	-75.21028	EMPIRE SOILS INVESTIGATIONS INC	SUN COMPANY	OBSERVATION	UNUSED	TRENTON GRAVEL			X			
48360				8/2/1995		39.91444	-75.20306	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48362				8/9/1995		39.915	-75.20306	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48363				5/9/1994		39.91528	-75.19972	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48364				5/10/1994		39.91528	-75.20028	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48365				5/5/1994		39.91528	-75.20139	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48366				8/3/1995		39.91528	-75.20278	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48367				5/9/1994		39.91556	-75.20111	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48368				8/9/1995		39.91556	-75.20278	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48369				5/20/1994		39.91639	-75.19167	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48370				8/25/1994		39.91722	-75.19167	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48371				7/1/1994		39.91778	-75.19167	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48372				5/24/1994		39.91806	-75.19139	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48373				9/9/1993		39.91833	-75.19167	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48374				5/26/1994		39.91972	-75.19056	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48376				6/1/1995		39.92194	-75.20778	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48378				5/17/1994		39.92278	-75.20278	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	
48379				5/18/1994		39.92278	-75.20333	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL					X	

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
48380				#####		39.92306	-75.20167	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL				X		
48381				5/19/1994		39.92306	-75.20222	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL				X		
48382				#####		39.92333	-75.20083	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL				X		
48383						39.92361	-75.20028		SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL				X		
48384				6/1/1995		39.92667	-75.21167		SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL				X		
48385				5/11/1994		39.92694	-75.20056	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL				X		
48386				6/5/1995		39.92694	-75.20083	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL				X		
48387				5/13/1994		39.92694	-75.20111	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL				X		
48388				6/5/1995		39.92694	-75.20139	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL				X		
48389				6/2/1995		39.92694	-75.20222	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL				X		
48390				5/10/1994		39.92694	-75.20333	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL				X		
48391				5/12/1994		39.92722	-75.20167	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL				X		
48392				5/11/1994		39.92722	-75.20222	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL				X		
48393				5/12/1994		39.92722	-75.20278	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL				X		
48394				11/5/1981		39.9275	-75.20667	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL				X		
48395				5/31/1995		39.92778	-75.21111	UNKNOWN	SUN COMPANY	WITHDRAWAL	OTHER	TRENTON GRAVEL				X		
136068	PHILADELPHIA			7/30/1974	EW WEL	39.93917	-75.19917	THOMAS G KEYES INC	SEABOARD SUPPLY CO	WITHDRAWAL	DOMESTIC	TRENTON GRAVEL		CAS MAT+STEEL, ROCK TYPE+GNEISS, USGS PH-745				
291850	PHILADELPHIA	2633 HUNTING PARK AVE		#####				SUMMIT DRILLING CO INC	SUN OIL				o/PaGWIS		X			
291851	PHILADELPHIA	3144 PASSYUNK AVE		9/10/1993				SUMMIT DRILLING CO INC	SUN OIL				o/PaGWIS		X			
291852	PHILADELPHIA	3144 PASSYUNK AVE		6/30/1993				B L MYERS BROS. OF PA. INC.	SUN ATLANTIC REFINERY				o/PaGWIS		X			
291853	PHILADELPHIA	3144 PASSYUNK AVE		6/30/1993				B L MYERS BROS. OF PA. INC.	SUN ATLANTIC REFINERY				o/PaGWIS		X			
291854	PHILADELPHIA	VE & PASSYUNK AVE 1105 S E		10/1/1989				IT ENVIRONMENTAL INC	EXXON COMPANY				o/PaGWIS		X			
291855	PHILADELPHIA	1105 S 8TH ST		10/1/1989				IT ENVIRONMENTAL INC	EXXON COMPANY				o/PaGWIS		X			
291856	PHILADELPHIA	VE & PASSYUNK AVE 1105 S E		10/1/1989				IT ENVIRONMENTAL INC	EXXON COMPANY				o/PaGWIS		X			
291857	PHILADELPHIA	CHESTNUT ST		7/10/1996				LUTZ ENVIRONMENTAL CO. INC.	REDEVELOPMENT AUTHORITY				o/PaGWIS				X	
291858	PHILADELPHIA	PHILADELPHIA		#####				SUMMIT DRILLING CO INC	SUN REFINERY				o/PaGWIS		X			
291859	PHILADELPHIA	1928 POINT BREEZE AVE		10/1/1994				MILLER PUMP SYSTEMS INC	SMITH				o/PaGWIS					
291860	PHILADELPHIA	6040 WOODLAND AVE		3/1/1996				MILLER PUMP SYSTEMS INC	SMITH				o/PaGWIS					
291861	PHILADELPHIA	6040 WOODLAND AVE		3/9/1990				AC SCHULTES INC	MARINE				o/PaGWIS				X	
291862	PHILADELPHIA	9414 MEADOWBROOK AVE		7/1/2002				MILLER PUMP SYSTEMS INC	MORRIS				o/PaGWIS				X	
291863	PHILADELPHIA	4300 MARKET ST		8/5/1994				B L MYERS BROS. OF PA. INC.	MOBIL STATION				o/PaGWIS		X			
291864	PHILADELPHIA	4300 MARKET ST		8/5/1994				B L MYERS BROS. OF PA. INC.	MOBIL STATION				o/PaGWIS		X			
291865	PHILADELPHIA	4300 MARKET ST		8/5/1999				B L MYERS BROS. OF PA. INC.	MOBIL STATION				o/PaGWIS		X			
291866	PHILADELPHIA	2101 MARKET ST		3/15/1995				PLAINFIELD WELL DRILLING CO	BUDGET CAR RENTAL				o/PaGWIS				X	
291867	PHILADELPHIA	7TH ARCH VACANT LOT		8/7/1996				M & R SOIL INVESTIGATIONS INC	CITY OF PHILADELPHIA				o/PaGWIS				X	
291868	PHILADELPHIA	JUNIPER & CYPRESS STREETS		2/13/1996				M & R SOIL INVESTIGATIONS INC	CITY OF PHILADELPHIA				o/PaGWIS				X	
291869	PHILADELPHIA	BROAD ST NAVY YARD		12/1/1995				M & R SOIL INVESTIGATIONS INC	US NAVY				o/PaGWIS				X	
291870	PHILADELPHIA	84TH ST & LINDBERGH BLVD		6/14/1996				M & R SOIL INVESTIGATIONS INC					o/PaGWIS				X	
291871	PHILADELPHIA	MARCUS HOOK		#####				M & R SOIL INVESTIGATIONS INC	TOSCO REFINERY				o/PaGWIS				X	
291872	PHILADELPHIA	LENARD POINT		#####				M & R SOIL INVESTIGATIONS INC	SUN REFINERY				o/PaGWIS		X			
291873	PHILADELPHIA	OFF RT 291		#####				B L MYERS BROS. OF PA. INC.	SUN REFINERY				o/PaGWIS		X			
291874	PHILADELPHIA	AT DEL RIVER PO BOX 5991 P		4/1/2002				THOMAS G KEYES INC	BRIDGESBURG OUTBOARD CL				o/PaGWIS				X	
291875	PHILADELPHIA	920 LEVICK ST PHILADELPHIA		5/13/1999				THOMAS G KEYES INC	WHITEFALL DEVELOPMENT II				o/PaGWIS				X	
291876	PHILADELPHIA	253 PORT ROYAL ST		#####				B L MYERS BROS. OF PA. INC.	PIRELLA				o/PaGWIS				X	
291877	PHILADELPHIA	PORT ROYAL AVE PHILADELPHIA		7/12/1999				THOMAS G KEYES INC	GOOD				o/PaGWIS				X	
291878	PHILADELPHIA	PORT ROYAL AVE		4/1/1995				BOLLINGER	SCHUYLKILL CENTER REHAB FA				o/PaGWIS				X	
291879	PHILADELPHIA	BUTTONWOOD ST PHILADELPHIA		7/1/1990				THOMAS G KEYES INC	TUNG YUTE INC				o/PaGWIS				X	
291880	PHILADELPHIA	8 CHELWYNDE ST PHILADELPHIA		4/10/1992				NORMAN HAGENBUCH	BARBIERI				o/PaGWIS				X	
291881	PHILADELPHIA	3 WELL SIDE OF BLDG		8/16/1988				BUCKS COUNTY WELL DRILLING IN	DAVID MICHAEL COMPANY				o/PaGWIS				X	
291882	PHILADELPHIA	QUEEN LN PHILADELPHIA		6/15/1995				THOMAS G KEYES INC	MEDICAL COLLEGE OF PA				o/PaGWIS				X	
291883	PHILADELPHIA	WELL 1 REAR WELL		6/1/1988				BUCKS COUNTY WELL DRILLING IN	DAVID MICHAEL COMPANY				o/PaGWIS				X	
291884	PHILADELPHIA	WELL 2 PARKING LOT						BUCKS COUNTY WELL DRILLING IN	DAVID MICHAEL COMPANY				o/PaGWIS				X	
291885	PHILADELPHIA	2727 SOUTHAMPTON RD		6/1/1988				BUCKS COUNTY WELL DRILLING IN	MARTIN F WEBER CO				o/PaGWIS				X	
291886	PHILADELPHIA	239-41 CHELTEN AVE		4/1/1986				BUCKS COUNTY WELL DRILLING IN	GPIC				o/PaGWIS				X	
291887	PHILADELPHIA	3151 MECHANICSVILLE RD		4/28/1991				BUCKS COUNTY WELL DRILLING IN	FERRY				o/PaGWIS				X	
291888	PHILADELPHIA	3110 MECHANICSVILLE RD		3/4/1992				BUCKS COUNTY WELL DRILLING IN	MELLER				o/PaGWIS				X	
291889	PHILADELPHIA	DORSAM WAY		9/8/1995				RAAB WELL DRILLING INC	PERUTO				o/PaGWIS				X	
291890	PHILADELPHIA	RED LION RD PHILADELPHIA		10/2/2001				THOMAS G KEYES INC	ISLAND GREEN COUNTRY CLU				o/PaGWIS				X	
291891	PHILADELPHIA	W GIRARD AVE PHILADELPHIA		3/25/1994				THOMAS G KEYES INC	TRIARCHY INC				o/PaGWIS				X	
291892	PHILADELPHIA	170 SPRING LN		7/1/1998				BOLLINGER	O'NEIL				o/PaGWIS				X	
291893	PHILADELPHIA	8381 TORESDALE AVE		9/11/1996				RAAB WELL DRILLING INC	WOLF				o/PaGWIS				X	
291894	PHILADELPHIA	3 W LUZERNE ST PHILADELPHIA		9/1/1991				THOMAS G KEYES INC	KEVIN USED AUTO PARTS				o/PaGWIS				X	
291895	PHILADELPHIA	15015 KELVIN AVE		5/16/1994				RAAB WELL DRILLING INC	DECOUX				o/PaGWIS				X	
291896	PHILADELPHIA	LL & MILLMAN STREETS PHILADELPHIA		1/27/1997				THOMAS G KEYES INC	PARK PASTORIUS				o/PaGWIS				X	
291897	PHILADELPHIA	LL & MILLMAN STREET PHILADELPHIA		1/29/1997				THOMAS G KEYES INC	PARK PASTORIUS				o/PaGWIS				X	
416728		67TH ST & ESSINGTON AVE	19153	4/28/2006	EW WEL	39.92167	-75.22472	EICHELBURGERS INC	ESSINGTON CORVEST PATRIOT		UNUSED				X			
416729		67TH ST & ESSINGTON AVE	19153	4/28/2006	EW WEL	39.92167	-75.22472	EICHELBURGERS INC	ESSINGTON CORVEST PATRIOT		UNUSED				X			
416730		67TH ST & ESSINGTON AVE	19153	4/28/2006	EW WEL	39.92167	-75.22472	EICHELBURGERS INC	ESSINGTON CORVEST PATRIOT		UNUSED				X			
416731	PHILADELPHIA	67TH ST & ESSINGTON AVE	19153	4/28/2006	EW WEL	39.92167	-75.22472	EICHELBURGERS INC	ESSINGTON CORVEST PATRIOT		UNUSED				X			
416741	PHILADELPHIA	67TH ST & ESSINGTON AVE	19153	4/28/2006	EW WEL	39.92167	-75.22472	EICHELBURGERS INC	ESSINGTON CORVEST PATRIOT		UNUSED				X			
416742	PHILADELPHIA	67TH ST & ESSINGTON AVE	19153	4/28/2006	EW WEL	39.92167	-75.22472	EICHELBURGERS INC	ESSINGTON CORVEST PATRIOT		UNUSED				X			
424457	PHILADELPHIA			6/18/2008	EW WEL	39.92472	-75.20917	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424461	PHILADELPHIA			5/14/2008	EW WEL	39.92722	-75.2075	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424462	PHILADELPHIA			5/14/2008	EW WEL	39.92778	-75.20972	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
424466	PHILADELPHIA			5/14/2008	EW WEL	39.92694	-75.21083	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424467	PHILADELPHIA			5/15/2008	EW WEL	39.92528	-75.20417	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424468	PHILADELPHIA			5/15/2008	EW WEL	39.92194	-75.20944	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424469	PHILADELPHIA			5/15/2008	EW WEL	39.92278	-75.20972	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424470	PHILADELPHIA			5/15/2008	EW WEL	39.92361	-75.21	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424471	PHILADELPHIA			5/16/2008	EW WEL	39.92306	-75.20389	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424472	PHILADELPHIA			5/20/2008	EW WEL	39.925	-75.20333	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424473	PHILADELPHIA			5/20/2008	EW WEL	39.92417	-75.20139	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424474	PHILADELPHIA			5/21/2008	EW WEL	39.92583	-75.20139	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424475	PHILADELPHIA			5/21/2008	EW WEL	39.925	-75.19639	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424476	PHILADELPHIA			5/21/2008	EW WEL	39.925	-75.1975	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424477	PHILADELPHIA			5/22/2008	EW WEL	39.92639	-75.19889	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424478	PHILADELPHIA			6/6/2008	EW WEL	39.92611	-75.20139	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424479	PHILADELPHIA			6/9/2008	EW WEL	39.92778	-75.20056	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424480	PHILADELPHIA			6/16/2008	EW WEL	39.92889	-75.19917	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424490	PHILADELPHIA			7/9/2008	EW WEL	39.92722	-75.20722	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424503	PHILADELPHIA			5/13/2008	EW WEL	39.92472	-75.20667	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424504	PHILADELPHIA			5/22/2008	EW WEL	39.92583	-75.19444	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424505	PHILADELPHIA			5/29/2008	EW WEL	39.92806	-75.20222	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424506	PHILADELPHIA			5/29/2008	EW WEL	39.92528	-75.20167	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424507	PHILADELPHIA			5/29/2008	EW WEL	39.9275	-75.2	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424508	PHILADELPHIA			5/28/2008	EW WEL	39.92361	-75.20278	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424509	PHILADELPHIA			5/23/2008	EW WEL	39.92667	-75.20167	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424510	PHILADELPHIA			6/2/2008	EW WEL	39.93	-75.20028	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424511	PHILADELPHIA			6/4/2008	EW WEL	39.92667	-75.2025	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424512	PHILADELPHIA			6/5/2008	EW WEL	39.92861	-75.20194	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424513	PHILADELPHIA			6/5/2008	EW WEL	39.92833	-75.19972	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424514	PHILADELPHIA			6/19/2008	EW WEL	39.9325	-75.20306	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424524	PHILADELPHIA	4101 ISLAND AVENUE	19153	11/9/2007	EW WEL	39.90194	-75.23833	ENVIRONMENTAL PROBING INVE	SHERATON HOTEL	MONITORING	INDUSTRIAL				X			
424563	PHILADELPHIA	4101 ISLAND AVENUE	19153	11/9/2007	EW WEL	39.90194	-75.23833	ENVIRONMENTAL PROBING INVE	SHERATON HOTEL	MONITORING	INDUSTRIAL				X			
424565	PHILADELPHIA			7/1/2008	EW WEL	39.92361	-75.20167	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424570	PHILADELPHIA			6/18/2008	EW WEL	39.92833	-75.20111	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424571	PHILADELPHIA			6/18/2008	EW WEL	39.9275	-75.20111	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424572	PHILADELPHIA			6/20/2008	EW WEL	39.92833	-75.20194	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424576	PHILADELPHIA			6/17/2008	EW WEL	39.92417	-75.20028	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424577	PHILADELPHIA			5/13/2008	EW WEL	39.92611	-75.20778	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
424578	PHILADELPHIA			6/13/2008	EW WEL	39.93139	-75.20306	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
473933	PHILADELPHIA	1630	19143	#####	EW WEL	39.93655	-75.21016	ENVIRONMENTAL PROBING INVE	hess	MONITORING	INDUSTRIAL				X	X		
474515	PHILADELPHIA			8/5/2008	EW WEL	39.91889	-75.19167	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
475168	PHILADELPHIA	1851 S 34TH ST.	19145	5/23/2011	EW WEL	39.93166	-75.20069	EICHELBERGERS INC.	VERIZON- PHILA	WITHDRAWAL	UNUSED				X	X		
475169	PHILADELPHIA	1851 S 34TH ST.	19145	5/23/2011	EW WEL	39.93176	-75.20069	EICHELBERGERS INC.	VERIZON- PHILA	WITHDRAWAL	UNUSED				X	X		
475170	PHILADELPHIA	1851 S 34TH ST.	19145	5/23/2011	EW WEL	39.93143	-75.20034	EICHELBERGERS INC.	VERIZON- PHILA	WITHDRAWAL	UNUSED				X	X		
475171	PHILADELPHIA	1851 S 34TH ST.	19145	5/23/2011	EW WEL	39.93162	-75.20051	EICHELBERGERS INC.	VERIZON- PHILA	WITHDRAWAL	UNUSED				X	X		
475283	PHILADELPHIA	1851 S 34TH ST.	19145	5/23/2011	EW WEL	39.93166	-75.20069	EICHELBERGERS INC.	VERIZON- PHILA	WITHDRAWAL	UNUSED				X	X		
475993	PHILADELPHIA			9/14/2011	EW WEL	39.93133	-75.2003	PARRATT-WOLFF INC	SAIC	MONITORING						X		
475994	PHILADELPHIA			9/13/2011	EW WEL	39.93008	-75.20006	PARRATT-WOLFF INC	SAIC	MONITORING						X		
476031	PHILADELPHIA	952 Bryn Mawr Ave. Phila. P		9/29/2011	EW WEL	39.8992	-75.2265	B L MYERS BROS. OF PA. INC.	Former Bill's Auto	MONITORING				The site is at the Former Bill's Auto: 1952 Bryn Mawr Av	X			
477165	PHILADELPHIA	5201 Grays Ave Philadelphia	19143	4/1/2011	!BANDON	39.93556	-75.21501	ODYSSEY ENVIRONMENTAL SERV	M A Bruder & Sons	MONITORING						X		
477570	PHILADELPHIA	reet & Grays Ferry Ave. F		2/9/2011	EW WEL	39.9399	-75.1913	B L MYERS BROS. OF PA. INC.	The Grays Ferry Shopping Cen	MONITORING				The site is at the Grays Ferry Shopping Center: 30th Str	X			
477745	PHILADELPHIA	reet & Grays Ferry Ave. F		2/9/2011	EW WEL	39.9396	-75.1916	B L MYERS BROS. OF PA. INC.	The Grays Ferry Shopping Cen	MONITORING				The site is at the Grays Ferry Shopping Center: 30th Str	X			
477819	PHILADELPHIA	5201 Grays Ave Philadelphia	19143	4/1/2011	!BANDON	39.93598	-75.214	ODYSSEY ENVIRONMENTAL SERV	M A Bruder & Sons	MONITORING						X		
477821	PHILADELPHIA	5201 Grays Ave Philadelphia	19143	4/1/2011	!BANDON	39.93588	-75.2148	ODYSSEY ENVIRONMENTAL SERV	M A Bruder & Sons	MONITORING						X		
477823	PHILADELPHIA	5201 Grays Ave Philadelphia	19143	4/1/2011	!BANDON	39.93483	-75.21365	ODYSSEY ENVIRONMENTAL SERV	M A Bruder & Sons	MONITORING						X		
477824	PHILADELPHIA	5201 Grays Ave Philadelphia	19143	4/1/2011	!BANDON	39.93593	-75.21456	ODYSSEY ENVIRONMENTAL SERV	M A Bruder & Sons	MONITORING						X		
478098	PHILADELPHIA	UNIVERSITY AVENUE		#####	EW WEL	39.94556	-75.19889	C S GARNER & SONS INC	PHILADELPHIA V.A. HOSPITAL	MONITORING				MONITORING WELL #2		X		
478098	PHILADELPHIA	UNIVERSITY AVENUE		#####	EW WEL	39.94556	-75.19889	C S GARNER & SONS INC	PHILADELPHIA V.A. HOSPITAL	MONITORING				MONITORING WELL #2		X		
478648				7/29/2008	EW WEL	39.91944	-75.19167	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
478667				8/27/2008	EW WEL	39.91583	-75.19528	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
478852				7/30/2008	EW WEL	39.91917	-75.19167	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
478853				7/31/2008	EW WEL	39.91917	-75.19167	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
478886				8/27/2008	EW WEL	39.91556	-75.19361	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
478889				8/13/2008	EW WEL	39.91806	-75.19167	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
479415				8/12/2008	EW WEL	39.91889	-75.19167	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
479770				8/5/2008	EW WEL	39.91889	-75.19167	PARRATT-WOLFF INC	SUNOCO	WITHDRAWAL						X		
480994	PHILADELPHIA			6/10/2010	EW WEL	39.90693	-75.20995	PARRATT-WOLFF INC	SUNOCO	MONITORING						X	X	
481002	PHILADELPHIA			5/27/2010	EW WEL	39.90545	-75.21198	PARRATT-WOLFF INC	SUNOCO	MONITORING						X	X	
481013	PHILADELPHIA			5/14/2010	EW WEL	39.91004	-75.20221	PARRATT-WOLFF INC	SUNOCO	MONITORING						X	X	
481016	PHILADELPHIA			6/16/2010	EW WEL	39.90708	-75.20293	PARRATT-WOLFF INC	SUNOCO	MONITORING						X	X	
481018	PHILADELPHIA			6/9/2010	EW WEL	39.91921	-75.19765	PARRATT-WOLFF INC	SUNOCO	MONITORING						X	X	
481020	PHILADELPHIA			5/5/2010	EW WEL	39.91846	-75.20013	PARRATT-WOLFF INC	SUNOCO	MONITORING						X	X	
481021	PHILADELPHIA			6/8/2010	EW WEL	39.91585	-75.19702	PARRATT-WOLFF INC	SUNOCO	MONITORING						X	X	
481023	PHILADELPHIA			5/12/2010	EW WEL	39.91602	-75.20174	PARRATT-WOLFF INC	SUNOCO	MONITORING						X	X	
481229		South 61st Street Philadelph		8/10/2009	EW WEL	39.9216	-75.21833	B L MYERS BROS. OF PA. INC.	Essington Ave Partners II L.P.	MONITORING	OTHER			The site location is at 3062 South 61st Street And is in b	X			
481332	PHILADELPHIA	6850 Essington Ave	19019	#####	EW WEL	39.91354	-75.22156	ENVIRONMENTAL PROBING INVE	Oil	MONITORING	INDUSTRIAL				X			

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
481761	PHILADELPHIA			6/2/2010	EW WEL	39.91001	-75.20656	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
481762	PHILADELPHIA			6/2/2010	EW WEL	39.90896	-75.20578	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
481763	PHILADELPHIA			6/3/2010	EW WEL	39.90421	-75.20569	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
481764	PHILADELPHIA			6/15/2010	EW WEL	39.90485	-75.20739	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
481770	PHILADELPHIA			5/27/2010	EW WEL	39.90672	-75.21071	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
481776	PHILADELPHIA			5/26/2010	EW WEL	39.90861	-75.21426	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
481778	PHILADELPHIA			6/3/2010	EW WEL	39.90982	-75.21231	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
481781	PHILADELPHIA			5/1/2010	EW WEL	39.91163	-75.20079	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
481782	PHILADELPHIA			5/18/2010	EW WEL	39.90987	-75.20477	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
481787	PHILADELPHIA			6/16/2010	EW WEL	39.91913	-75.20033	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
481789	PHILADELPHIA			5/26/2010	EW WEL	39.92019	-75.19679	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
481790	PHILADELPHIA			5/25/2010	EW WEL	39.91783	-75.19931	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
481791	PHILADELPHIA			6/8/2010	EW WEL	39.91709	-75.20012	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
481792	PHILADELPHIA			5/20/2010	EW WEL	39.91671	-75.19776	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
481793	PHILADELPHIA			5/19/2010	EW WEL	39.91435	-75.19581	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
481798	PHILADELPHIA			5/12/2010	EW WEL	39.91584	-75.2014	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
481799	PHILADELPHIA			6/11/2010	EW WEL	39.91602	-75.20011	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
481942	PHILADELPHIA			5/21/2010	EW WEL	39.91521	-75.20211	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
482354	PHILADELPHIA	6310 Passayunk Ave. Phila. Pa		8/13/2010	EW WEL	39.9145	-75.2172	B L MYERS BROS. OF PA. INC.	121 Point Breeze Terminal	MONITORING	OTHER			Site is Point Breeze Terminal locate at 6310 Passayunk Ave.	X	X		
483483	PHILADELPHIA			1/27/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
483484	PHILADELPHIA			2/4/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
483486	PHILADELPHIA			2/6/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
483487	PHILADELPHIA			2/10/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
483488	PHILADELPHIA			2/18/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
483489	PHILADELPHIA			2/17/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
483490	PHILADELPHIA			2/11/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
483491	PHILADELPHIA			2/10/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
483492	PHILADELPHIA			2/12/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
483493	PHILADELPHIA			2/13/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
483515	PHILADELPHIA			2/11/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
483882	PHILADELPHIA	6850 Essington Ave. Phila. Pa		4/5/2010	EW WEL	39.91013	-75.21785	B L MYERS BROS. OF PA. INC.	Pacific Atlantic Terminal LLC	MONITORING	OTHER			The Pacific Atlantic Terminal LLC is located at 6850 Essington Ave.	X			
483890	PHILADELPHIA	6850 Essington Ave. Phila. Pa		4/5/2010	BANDON	39.91016	-75.21783	B L MYERS BROS. OF PA. INC.	Pacific Atlantic Terminal LLC	MONITORING				The Pacific Atlantic Terminal LLC is located at 6850 Essington Ave.	X			
484055	PHILADELPHIA	3062 S. 61ST STREET		#####	BANDON	39.9197	-75.21704	C S GARBER & SONS INC	ESSINGTON AVENUE PARTNE	ABANDONED				MONITORING WELL #1	X			
484057	PHILADELPHIA	3062 S. 61ST STREET		#####	BANDON	39.9212	-75.21658	C S GARBER & SONS INC	ESSINGTON AVENUE PARTNE	ABANDONED				MONITORING WELL #2	X			
484151	PHILADELPHIA			1/28/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
484152	PHILADELPHIA			1/29/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
484153	PHILADELPHIA			2/3/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
484154	PHILADELPHIA			2/4/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
484155	PHILADELPHIA			2/12/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
484156	PHILADELPHIA			2/19/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
484158	PHILADELPHIA			2/18/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
484160	PHILADELPHIA			2/17/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
484161	PHILADELPHIA			2/16/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
484162	PHILADELPHIA			2/12/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
484163	PHILADELPHIA			2/12/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
484164	PHILADELPHIA			2/17/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
484263				4/19/2011	EW WEL	39.91709	-75.20435	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
484264				4/18/2011	EW WEL	39.91445	-75.20898	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
484265				4/20/2011	EW WEL	39.91549	-75.20993	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
484266				4/20/2011	EW WEL	39.91557	-75.21262	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
484292	PHILADELPHIA			2/18/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
484293	PHILADELPHIA			2/19/2009	EW WEL	39.915	-75.19222	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
484591	PHILADELPHIA	UNIVERSITY AVENUE		3/31/2009	EW WEL	39.94528	-75.19917	C S GARBER & SONS INC	PHILADELPHIA V.A. HOSPITAL	MONITORING				MONITORING WELL #5	X			
484591	PHILADELPHIA	UNIVERSITY AVENUE		3/31/2009	EW WEL	39.94528	-75.19917	C S GARBER & SONS INC	PHILADELPHIA V.A. HOSPITAL	MONITORING				MONITORING WELL #5	X			
484807				4/18/2011	EW WEL	39.91442	-75.20888	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
484807				4/18/2011	EW WEL	39.91442	-75.20888	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
484807				4/18/2011	EW WEL	39.91442	-75.20888	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
484808				4/15/2011	EW WEL	39.91472	-75.20708	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
484851				4/19/2011	EW WEL	39.91787	-75.20547	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
484853				4/18/2011	EW WEL	39.91644	-75.20606	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
484901	PHILADELPHIA	3062 S. 61ST STREET		#####	BANDON	39.92057	-75.21847	C S GARBER & SONS INC	ESSINGTON AVENUE PARTNE	ABANDONED				MONITORING WELL #3	X			
484902	PHILADELPHIA	3062 S. 61ST STREET		#####	BANDON	39.92158	-75.21834	C S GARBER & SONS INC	ESSINGTON AVENUE PARTNE	ABANDONED				MONITORING WELL #4R	X			
484903	PHILADELPHIA	3062 S. 61ST STREET		#####	BANDON	39.92117	-75.21998	C S GARBER & SONS INC	ESSINGTON AVENUE PARTNE	ABANDONED				MONITORING WELL #5	X			
484904	PHILADELPHIA	3062 S. 61ST STREET		#####	BANDON	39.92218	-75.21929	C S GARBER & SONS INC	ESSINGTON AVENUE PARTNE	ABANDONED				MONITORING WELL #6	X			
485077				4/6/2011	EW WEL	39.91878	-75.20344	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
485077				4/6/2011	EW WEL	39.91878	-75.20344	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
485077				4/6/2011	EW WEL	39.91878	-75.20344	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
486018	PHILADELPHIA	6850 Essington Avenue	19153	7/20/2009	EW WEL	39.90252	-75.2247	ENVIRONMENTAL PROBING INVS	Oil Terminal	MONITORING	INDUSTRIAL				X	X		
486487	PHILADELPHIA	6901 Buist Ave. Phila. PA		8/1/2011	EW WEL	39.9171	-75.235	B L MYERS BROS. OF PA. INC.	United Gas	MONITORING					X			
487855	PHILADELPHIA	6901 Buist Ave. Phila. PA		8/1/2011	EW WEL	39.917	-75.235	B L MYERS BROS. OF PA. INC.	United Gas	MONITORING					X			
487856	PHILADELPHIA	6901 Buist Ave. Phila. PA		8/2/2011	EW WEL	39.9171	-75.235	B L MYERS BROS. OF PA. INC.	United Gas	MONITORING					X			
487857	PHILADELPHIA	6901 Buist Ave. Phila. PA		8/2/2011	EW WEL	39.9169	-75.2351	B L MYERS BROS. OF PA. INC.	United Gas	MONITORING					X			
487860				6/29/2011	EW WEL	39.91324	-75.19208	PARRATT-WOLFF INC	ARCO	MONITORING					X	X		
487862				7/7/2011	EW WEL	39.91258	-75.19209	PARRATT-WOLFF INC	ARCO	MONITORING					X	X		

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based on WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based on location outside search radius
487862				7/7/2011	EW WEL	39.91258	-75.19209	PARRATT-WOLFF INC	ARCO	MONITORING					X	X		
487864				6/28/2011	EW WEL	39.91278	-75.19201	PARRATT-WOLFF INC	ARCO	MONITORING					X	X		
488004				8/22/2011	EW WEL	39.91549	-75.20251	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
488005				8/23/2011	EW WEL	39.91721	-75.20174	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
488006				8/25/2011	EW WEL	39.91698	-75.20149	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
488007				8/25/2011	EW WEL	39.91776	-75.20335	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
488537				6/29/2011	EW WEL	39.91215	-75.19235	PARRATT-WOLFF INC	ARCO	MONITORING					X	X		
488645				8/22/2011	EW WEL	39.91555	-75.20272	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
489934				8/26/2011	EW WEL	39.91763	-75.201	PARRATT-WOLFF INC	Sunoco	MONITORING					X	X		
490120	PHILADELPHIA	64 Lindbergh Blvd Philadelphia	19143	8/30/2011	ABANDON	39.93274	-75.2164	ODYSSEY ENVIRONMENTAL SERVICE	BP	MONITORING				Tremied grout restore surface to match existing.	X	X		
490121	PHILADELPHIA	64 Lindbergh Blvd Philadelphia	19143	8/30/2011	ABANDON	39.93272	-75.21634	ODYSSEY ENVIRONMENTAL SERVICE	BP	MONITORING				Tremied grout restore surface to match existing.	X	X		
490277	PHILADELPHIA	64 Lindbergh Blvd Philadelphia	19143	8/30/2011	ABANDON	39.9328	-75.21621	ODYSSEY ENVIRONMENTAL SERVICE	BP	MONITORING				Tremied grout restore surface to match existing.	X	X		
490278	PHILADELPHIA	64 Lindbergh Blvd Philadelphia	19143	8/30/2011	ABANDON	39.93285	-75.21667	ODYSSEY ENVIRONMENTAL SERVICE	BP	MONITORING				Tremied grout restore surface to match existing.	X	X		
490279	PHILADELPHIA	64 Lindbergh Blvd Philadelphia	19143	8/30/2011	ABANDON	39.93292	-75.21645	ODYSSEY ENVIRONMENTAL SERVICE	BP	MONITORING				Tremied grout restore surface to match existing.	X	X		
490280	PHILADELPHIA	64 Lindbergh Blvd Philadelphia	19143	8/30/2011	ABANDON	39.93276	-75.21637	ODYSSEY ENVIRONMENTAL SERVICE	BP	MONITORING				Tremied grout restore surface to match existing.	X	X		
490363	PHILADELPHIA			9/15/2011	EW WEL	39.92997	-75.20042	PARRATT-WOLFF INC	SAIC	MONITORING					X			
490581	PHILADELPHIA	64 Lindbergh Blvd Philadelphia	19143	8/30/2011	ABANDON	39.93267	-75.21635	ODYSSEY ENVIRONMENTAL SERVICE	BP	MONITORING				Tremied grout restore surface to match existing.	X	X		
490582	PHILADELPHIA	64 Lindbergh Blvd Philadelphia	19143	8/30/2011	ABANDON	39.93264	-75.21636	ODYSSEY ENVIRONMENTAL SERVICE	BP	MONITORING				Tremied grout restore surface to match existing.	X	X		
490583	PHILADELPHIA	64 Lindbergh Blvd Philadelphia	19143	8/30/2011	ABANDON	39.93279	-75.21663	ODYSSEY ENVIRONMENTAL SERVICE	BP	MONITORING				Tremied grout restore surface to match existing.	X	X		
490584	PHILADELPHIA	64 Lindbergh Blvd Philadelphia	19143	8/30/2011	ABANDON	39.93267	-75.21629	ODYSSEY ENVIRONMENTAL SERVICE	BP	MONITORING				Tremied grout restore surface to match existing.	X	X		
490585	PHILADELPHIA	64 Lindbergh Blvd Philadelphia	19143	8/30/2011	ABANDON	39.93254	-75.21639	ODYSSEY ENVIRONMENTAL SERVICE	BP	MONITORING				Tremied grout restore surface to match existing.	X	X		
490586	PHILADELPHIA	64 Lindbergh Blvd Philadelphia	19143	8/30/2011	ABANDON	39.93277	-75.21628	ODYSSEY ENVIRONMENTAL SERVICE	BP	MONITORING				Tremied grout restore surface to match existing.	X	X		
490715	PHILADELPHIA			9/14/2011	EW WEL	39.9311	-75.20052	PARRATT-WOLFF INC	SAIC	MONITORING					X			
490716	PHILADELPHIA			9/19/2011	EW WEL	39.9303	-75.20139	PARRATT-WOLFF INC	SAIC	MONITORING					X			
490718	PHILADELPHIA			9/16/2011	EW WEL	39.93015	-75.20083	PARRATT-WOLFF INC	SAIC	MONITORING					X			
494173		et & Bartram Ave. Philadelphia		8/18/2009	EW WEL	39.89086	-75.24215	B L MYERS BROS. OF PA. INC.	WAWA	MONITORING	OTHER			The Wawa is at the corner of 84th Street & Bartram Ave.	X			
494175		et & Bartram Ave. Philadelphia		8/18/2009	EW WEL	39.89036	-75.24178	B L MYERS BROS. OF PA. INC.	WAWA	MONITORING	OTHER			The Wawa is at the corner of 84th Street & Bartram Ave.	X			
494516	PHILADELPHIA	Street and Bartram Ave. Philadelphia		4/27/2011	ABANDON	39.8909	-75.2422	B L MYERS BROS. OF PA. INC.	WAWA	MONITORING				WAWA - Parking Lot (Near Phila. Airport) 84th St & Bartram Ave.	X			
494517	PHILADELPHIA	Street and Bartram Ave. Philadelphia		4/27/2011	ABANDON	39.8914	-75.2415	B L MYERS BROS. OF PA. INC.	WAWA	MONITORING				WAWA - Parking Lot (Near Phila. Airport) 84th St & Bartram Ave.	X			
494518	PHILADELPHIA	Street and Bartram Ave. Philadelphia		4/27/2011	ABANDON	39.8916	-75.2419	B L MYERS BROS. OF PA. INC.	WAWA	MONITORING				WAWA - Parking Lot (Near Phila. Airport) 84th St & Bartram Ave.	X			
495283	PHILADELPHIA			2/12/2009	EW WEL	39.915	-75.19322	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
495284	PHILADELPHIA			2/16/2009	EW WEL	39.915	-75.19322	PARRATT-WOLFF INC	SUNOCO	INJECTION						X		
495542	PHILADELPHIA	UNIVERSITY AVENUE		3/31/2009	EW WEL	39.94667	-75.19917	C S GARBER & SONS INC	PHILADELPHIA V.A. HOSPITAL	MONITORING				MONITORING WELL #4	X			
495542	PHILADELPHIA	UNIVERSITY AVENUE		3/31/2009	EW WEL	39.94667	-75.19917	C S GARBER & SONS INC	PHILADELPHIA V.A. HOSPITAL	MONITORING				MONITORING WELL #4	X			
496787	PHILADELPHIA			6/3/2010	EW WEL	39.90966	-75.21112	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
496788	PHILADELPHIA			5/21/2010	EW WEL	39.91551	-75.20012	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
496789	PHILADELPHIA			5/18/2010	EW WEL	39.91301	-75.19746	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
496790	PHILADELPHIA			5/7/2010	EW WEL	39.91556	-75.20126	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
496791	PHILADELPHIA			5/11/2010	EW WEL	39.91556	-75.20143	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
496795	PHILADELPHIA			5/11/2010	EW WEL	39.91554	-75.20161	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
496796	PHILADELPHIA			5/11/2010	EW WEL	39.91554	-75.20161	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
496797	PHILADELPHIA			5/7/2010	EW WEL	39.91566	-75.20127	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
496800	PHILADELPHIA			6/15/2010	EW WEL	39.90421	-75.20569	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
497454	PHILADELPHIA			6/2/2010	EW WEL	39.90783	-75.21133	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
497455	PHILADELPHIA			6/4/2010	EW WEL	39.91509	-75.19739	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
497456	PHILADELPHIA			6/10/2010	EW WEL	39.91386	-75.20112	PARRATT-WOLFF INC	SUNOCO	MONITORING					X	X		
497767	PHILADELPHIA	6901 Buist Avenue	19140	1/31/2012	EW WEL	39.91713	-75.23495	TALON DRILLING COMPANY	Singh	MONITORING					X			
497823	PHILADELPHIA	6901 Buist Avenue	19140	1/30/2012	EW WEL	39.91706	-75.23489	TALON DRILLING COMPANY	Singh	MONITORING					X			
497824	PHILADELPHIA	6901 Buist Avenue	19140	1/27/2012	EW WEL	39.91692	-75.23498	TALON DRILLING COMPANY	Singh	MONITORING					X			
497842	PHILADELPHIA	6901 Buist Avenue	19140	1/30/2012	EW WEL	39.91771	-75.23501	TALON DRILLING COMPANY	Singh	MONITORING					X			
497975	PHILADELPHIA	6770 Essington Avenue	19153	7/7/2011	EW WEL	39.90143	-75.21995	THOMAS G KEYES INC	Auto Parts	WITHDRAWAL	INDUSTRIAL				X			
499506	PHILADELPHIA	6310 Passyunk Ave. Phila. PA		5/18/2012	EW WEL	39.91599	-75.21521	B L MYERS BROS. OF PA. INC.	Point Breeze Terminal	MONITORING				The site is at the Point Breeze Terminal: 6310 Passyunk Ave.	X	X		
499508	PHILADELPHIA	6310 Passyunk Ave. Phila. PA		5/18/2012	ABANDON	39.91599	-75.21521	B L MYERS BROS. OF PA. INC.	Point Breeze Terminal	MONITORING				The site is at the Point Breeze Terminal: 6310 Passyunk Ave.	X	X		
499726	PHILADELPHIA	5 Lindbergh Blvd Philadelphia	19143	#####	EW WEL	39.92527	-75.22082	ODYSSEY ENVIRONMENTAL SERVICE	Saint	MONITORING				Well drilled and sampled continuous to 30' using hsa an	X			
499803	PHILADELPHIA	5 Lindbergh Blvd Philadelphia	19143	#####	EW WEL	39.92536	-75.2209	ODYSSEY ENVIRONMENTAL SERVICE	Saint	MONITORING				Well drilled and sampled continuous to 30' using hsa an	X			
500066	PHILADELPHIA	1515 Arch St Philadelphia	19102	4/26/2006	ABANDON	39.90501	-75.17699	ODYSSEY ENVIRONMENTAL SERVICE	City of Philadelphia	MONITORING				Well tremmie grouted surface restored to match existir	X			
500067	PHILADELPHIA	1515 Arch St Philadelphia	19102	7/6/2006	ABANDON	39.90486	-75.17737	ODYSSEY ENVIRONMENTAL SERVICE	City of Philadelphia	MONITORING				Well tremmie grouted surface restored to match existir	X			
500068	PHILADELPHIA	1515 Arch St Philadelphia	19102	7/6/2006	ABANDON	39.90479	-75.1773	ODYSSEY ENVIRONMENTAL SERVICE	City of Philadelphia	MONITORING				Well tremmie grouted surface restored to match existir	X			
500069	PHILADELPHIA	1515 Arch St Philadelphia	19102	7/6/2006	ABANDON	39.90472	-75.17722	ODYSSEY ENVIRONMENTAL SERVICE	City of Philadelphia	MONITORING				Well tremmie grouted surface restored to match existir	X			
500142	PHILADELPHIA	1515 Arch Street Philadelphia	19102	4/26/2006	ABANDON	39.90515	-75.17674	ODYSSEY ENVIRONMENTAL SERVICE	City of Philadelphia	MONITORING				Well tremmie grouted surface restored to match existir	X			
500143	PHILADELPHIA	1515 Arch Street Philadelphia	19102	4/26/2006	ABANDON	39.90491	-75.17716	ODYSSEY ENVIRONMENTAL SERVICE	City of Philadelphia	MONITORING				Well Tremmie grouted surface restored to match existir	X			
500144	PHILADELPHIA	1515 Arch St Philadelphia	19102	4/26/2006	ABANDON	39.90485	-75.177	ODYSSEY ENVIRONMENTAL SERVICE	City of Philadelphia	MONITORING				Well tremmie grouted surface restored to match existir	X			
500145	PHILADELPHIA	1515 Arch St Philadelphia	19102	4/26/2012	ABANDON	39.90485	-75.17715	ODYSSEY ENVIRONMENTAL SERVICE	City of Philadelphia	MONITORING				Well tremmie grouted surface restored to match existir	X			
500375	PHILADELPHIA	45 Lindbergh Blvd Philadelphia	19143	9/13/2010	EW WEL	39.92561	-75.22165	ODYSSEY ENVIRONMENTAL SERVICE	Saint	MONITORING				Well drilled and installed using CME 75 using 4 1/4quot; hsa	X			
500376	PHILADELPHIA	45 Lindbergh Blvd Philadelphia	19143	9/14/2010	EW WEL	39.92565	-75.22125	ODYSSEY ENVIRONMENTAL SERVICE	Saint	WITHDRAWAL				Well drilled and installed using CME 75 using 4 1/4quot; hsa	X			
500377	PHILADELPHIA	45 Lindbergh Blvd Philadelphia	19143	9/14/2010	EW WEL	39.92537	-75.22092	ODYSSEY ENVIRONMENTAL SERVICE	Saint	MONITORING				Well drilled and installed using CME 75 with 4 1/4quot; hsa	X			
502519	PHILADELPHIA	6850 Essington Ave	19153	#####	EW WEL	39.90593	-75.21824	ENVIRONMENTAL FIELD SERVICE	Pacific Atlantic Terminals LLC	MONITORING	UNUSED				X			
502554	PHILADELPHIA	6850 Essington Ave	19153	#####	EW WEL	39.91034	-75.21808	ENVIRONMENTAL FIELD SERVICE	Pacific Atlantic Terminals LLC	MONITORING	UNUSED				X			
502555	PHILADELPHIA	6850 Essington Ave	19153	#####	EW WEL	39.91021	-75.2181	ENVIRONMENTAL FIELD SERVICE	Pacific Atlantic Terminals LLC	MONITORING	UNUSED				X			
504475	PHILADELPHIA	3rd Street Philadelphia PA 19102		1/14/2013	EW WEL	39.91443	-75.18673	AMERIDRILL INC.	Defense Logistics Agency	MONITORING					X	X		
504918	PHILADELPHIA	31 S. 58th Street Philadelphia		2/13/2013	EW WEL	39.92636	-75.21412	AMERIDRILL INC.	Philadelphia Industrial Develop	MONITORING					X			
510374	PHILADELPHIA			5/8/2013	EW WEL	39.90555	-75.19301	TP1 ENVIRONMENTAL INC.	Geosyntec Consultants	WITHDRAWAL				Installed two additional wells at this site with similar geologies (MW-2 to 20' and MW-3 to 20')	X			
510959	PHILADELPHIA	100 Woodland Ave. Philadelphia	19143	12/4/2013	EW WEL	39.93807	-75.21633	A LEXANDER MACPHEE--CVM INDU	Woodland Gulf	TEST	UNUSED			Well located north of service island next to Woodland Ave.	X			
510983	PHILADELPHIA	100 Woodland Ave. Philadelphia	19143	12/5/2013	EW WEL	39.93808	-75.21626	A LEXANDER MACPHEE--CVM INDU	Woodland Gulf	TEST	UNUSED			Well located 6 feet south of cutout for sign.	X			

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
510985	PHILADELPHIA	0 Woodland Ave. Philadelphia	19143	12/4/2013	EW WEL	39.938	-75.2161	A LEXANDER MACPHEE - CVM INDU	Woodland Gulf	UNUSED	UNUSED			Well located in the SE corner of the site adjacent to 52nd	X			
510993	PHILADELPHIA	0 Woodland Ave. Philadelphia	19143	12/5/2013	EW WEL	39.9379	-75.2162	A LEXANDER MACPHEE - CVM INDU	Woodland Gulf	UNUSED	UNUSED			Well located adjacent to back property line 5 feet off SE	X			
510997	PHILADELPHIA	0 Woodland ave. Philadelphia	19143	12/5/2013	EW WEL	39.9379	-75.21642	A LEXANDER MACPHEE - CVM INDU	Woodland Gulf	UNUSED	UNUSED			Well located directly in front of building 5 feet off of sid	X			
512462	PHILADELPHIA	26th Street	19145	6/13/2013	BANDON	39.90403	-75.19439	ALLIED WELL DRILLING	Danbro L.P.	MONITORING					X			
512463	PHILADELPHIA	26th Street	19145	6/13/2013	BANDON	39.90233	-75.19761	ALLIED WELL DRILLING	Danbro L.P.	MONITORING					X			
512464	PHILADELPHIA	26th Street	19145	6/13/2013	BANDON	39.90328	-75.19667	ALLIED WELL DRILLING	Danbro L.P.	MONITORING					X			
512465	PHILADELPHIA	26th Street	19145	6/13/2013	BANDON	39.90258	-75.19628	ALLIED WELL DRILLING	Danbro L.P.	MONITORING					X			
512466	PHILADELPHIA	26th Street	19145	7/13/2013	BANDON	39.90167	-75.19744	ALLIED WELL DRILLING	Danbro L.P.	MONITORING					X			
512467	PHILADELPHIA	26th Street	19145	6/13/2013	BANDON	39.90161	-75.19622	ALLIED WELL DRILLING	Danbro L.P.	MONITORING					X			
512482	PHILADELPHIA	26th Street	19145	6/13/2013	BANDON	39.90308	-75.19547	ALLIED WELL DRILLING	Danbro L.P.	MONITORING					X			
512483	PHILADELPHIA	26th Street	19145	6/13/2013	BANDON	39.90214	-75.19578	ALLIED WELL DRILLING	Danbro L.P.	MONITORING					X			
512484	PHILADELPHIA	26th Street	19145	6/13/2013	BANDON	39.90172	-75.19647	ALLIED WELL DRILLING	Danbro L.P.	MONITORING					X			
512485	PHILADELPHIA	26th Street	19145	6/13/2013	BANDON	39.90114	-75.19694	ALLIED WELL DRILLING	Danbro L.P.	MONITORING					X			
512486	PHILADELPHIA	26th Street	19145	6/13/2013	BANDON	39.90158	-75.19606	ALLIED WELL DRILLING	Danbro L.P.	MONITORING					X			
512487	PHILADELPHIA	26th Street	19145	6/13/2013	BANDON	39.90339	-75.19633	ALLIED WELL DRILLING	Danbro L.P.	MONITORING					X			
512488	PHILADELPHIA	26th Street	19145	6/13/2013	BANDON	39.90253	-75.19467	ALLIED WELL DRILLING	Danbro L.P.	MONITORING					X			
514164	PHILADELPHIA	18 &amp; Passyunk Ave	19145	5/27/2014	BANDON	39.92412	-75.17613	ODYSSEY ENVIRONMENTAL SERVICE	Sunoco Inc. (R&M&M)	MONITORING				Tremie grout. Restore surface to match existing.	X	X		
514166	PHILADELPHIA	18 &amp; Passyunk Ave	19145	5/27/2014	BANDON	39.92411	-75.17622	ODYSSEY ENVIRONMENTAL SERVICE	Sunoco Inc. (R&M&M)	MONITORING				Tremie grout. Restore surface to match existing.	X	X		
514232	PHILADELPHIA	18 &amp; Passyunk Ave	19145	5/27/2014	BANDON	39.92414	-75.17605	ODYSSEY ENVIRONMENTAL SERVICE	Sunoco Inc. (R&M&M)	MONITORING				Tremie grout. Restore surface to match existing.	X	X		
514233	PHILADELPHIA	18 &amp; Passyunk Ave	19145	5/27/2014	BANDON	39.92399	-75.17616	ODYSSEY ENVIRONMENTAL SERVICE	Sunoco Inc. (R&M&M)	MONITORING				Tremie grout. Restore surface to match existing.	X	X		
514968	PHILADELPHIA	2231 S. 62nd St.	19142	3/6/2014	EW WEL	39.92686	-75.22872	SUBSURFACE ENVIRONMENTAL TEST	Eckelmeyer	WITHDRAWAL	DOMESTIC							
523544	PHILADELPHIA			9/3/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Zohoff	WITHDRAWAL	DOMESTIC						X	
523549	PHILADELPHIA			9/4/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Zohoff	WITHDRAWAL	DOMESTIC						X	
523552	PHILADELPHIA			8/28/2012	EW WEL	0	0	ENVIROPROBE SERVICE INC.		WITHDRAWAL	DOMESTIC						X	
523555	PHILADELPHIA			8/28/2012	EW WEL	0	0	ENVIROPROBE SERVICE INC.		WITHDRAWAL	DOMESTIC						X	
523556	PHILADELPHIA			8/27/2012	EW WEL	0	0	ENVIROPROBE SERVICE INC.		WITHDRAWAL	DOMESTIC						X	
523558	PHILADELPHIA			8/27/2012	EW WEL	0	0	ENVIROPROBE SERVICE INC.		WITHDRAWAL	DOMESTIC						X	
523560	PHILADELPHIA			8/28/2012	EW WEL	0	0	ENVIROPROBE SERVICE INC.		WITHDRAWAL	DOMESTIC						X	
523561	PHILADELPHIA			7/25/2014	EW WEL	0	0	EAST COAST DRILLING INC	Sun Company Inc.	WITHDRAWAL	DOMESTIC					X		
523565	PHILADELPHIA			7/24/2014	EW WEL	0	0	EAST COAST DRILLING INC	Sun Company Inc.	WITHDRAWAL	DOMESTIC					X		
523567	PHILADELPHIA			7/23/2014	EW WEL	0	0	EAST COAST DRILLING INC	Sun Company Inc.	WITHDRAWAL	DOMESTIC					X		
523570	PHILADELPHIA			7/23/2014	EW WEL	0	0	EAST COAST DRILLING INC	Sun Company Inc.	WITHDRAWAL	DOMESTIC					X		
523572	PHILADELPHIA			7/21/2004	EW WEL	0	0	EAST COAST DRILLING INC	Sun Company Inc.	WITHDRAWAL	DOMESTIC					X		
523575	PHILADELPHIA			1/15/2014	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia International Airp	WITHDRAWAL	DOMESTIC						X	
523583	PHILADELPHIA			1/15/2014	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia International Airp	WITHDRAWAL	DOMESTIC						X	
523584	PHILADELPHIA			6/7/2012	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia International Airp	WITHDRAWAL	DOMESTIC						X	
523587	PHILADELPHIA			6/7/2012	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia International Airp	WITHDRAWAL	DOMESTIC						X	
523590	PHILADELPHIA			6/6/2012	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia International Airp	WITHDRAWAL	DOMESTIC						X	
523593	PHILADELPHIA			6/6/2012	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia International Airp	WITHDRAWAL	DOMESTIC						X	
523595	PHILADELPHIA			1/31/2012	EW WEL	0	0	EAST COAST DRILLING INC	PECO	WITHDRAWAL	DOMESTIC						X	
523596	PHILADELPHIA			4/7/2014	EW WEL	0	0	EAST COAST DRILLING INC	Monroe Muffler	WITHDRAWAL	DOMESTIC						X	
523597	PHILADELPHIA			4/7/2014	EW WEL	0	0	EAST COAST DRILLING INC	Monroe Muffler	WITHDRAWAL	DOMESTIC						X	
523598	PHILADELPHIA			4/27/2000	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit	WITHDRAWAL	DOMESTIC						X	
523599	PHILADELPHIA			4/14/2000	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit	WITHDRAWAL	DOMESTIC						X	
523612	PHILADELPHIA			3/20/2014	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Impact Services Corp.	WITHDRAWAL	DOMESTIC						X	
523619	PHILADELPHIA			3/21/2014	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Impact Services Corp.	WITHDRAWAL	DOMESTIC						X	
523622	PHILADELPHIA			3/20/2014	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Impact Services Corp.	WITHDRAWAL	DOMESTIC						X	
523624	PHILADELPHIA			3/21/2014	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Impact Services Corp.	WITHDRAWAL	DOMESTIC						X	
523627	PHILADELPHIA			4/17/2014	EW WEL	0	0	SUBSURFACE ENVIRONMENTAL TEST	Eckelmeyer	WITHDRAWAL	DOMESTIC						X	
523629	PHILADELPHIA			3/6/2014	EW WEL	0	0	SUBSURFACE ENVIRONMENTAL TEST	Eckelmeyer	WITHDRAWAL	DOMESTIC						X	
523632	PHILADELPHIA			3/6/2014	EW WEL	0	0	SUBSURFACE ENVIRONMENTAL TEST	Eckelmeyer	WITHDRAWAL	DOMESTIC						X	
523635	PHILADELPHIA			3/6/2014	EW WEL	0	0	SUBSURFACE ENVIRONMENTAL TEST	Eckelmeyer	WITHDRAWAL	DOMESTIC						X	
523637	PHILADELPHIA			4/28/2000	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Eckard Pharmacy	WITHDRAWAL	DOMESTIC						X	
523640	PHILADELPHIA			4/28/2000	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Eckard Pharmacy	WITHDRAWAL	DOMESTIC						X	
523642	PHILADELPHIA			7/23/2013	EW WEL	0	0	EAST COAST DRILLING INC	DePaul	WITHDRAWAL	DOMESTIC						X	
523649	PHILADELPHIA			7/23/2013	EW WEL	0	0	EAST COAST DRILLING INC	DePaul	WITHDRAWAL	DOMESTIC						X	
523652	PHILADELPHIA			7/23/2013	EW WEL	0	0	EAST COAST DRILLING INC	DePaul	WITHDRAWAL	DOMESTIC						X	
523655	PHILADELPHIA			7/23/2013	EW WEL	0	0	EAST COAST DRILLING INC	DePaul	WITHDRAWAL	DOMESTIC						X	
523658	PHILADELPHIA			5/9/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	City of Philadelphia	WITHDRAWAL	DOMESTIC						X	
523661	PHILADELPHIA			1/18/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Cardone Industries USA	WITHDRAWAL	DOMESTIC						X	
523665	PHILADELPHIA			1/18/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Cardone Industries USA	WITHDRAWAL	DOMESTIC						X	
523667	PHILADELPHIA			1/18/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Cardone Industries USA	WITHDRAWAL	DOMESTIC						X	
523670	PHILADELPHIA			4/25/2012	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Brahin Properties	WITHDRAWAL	DOMESTIC						X	
523673	PHILADELPHIA			7/2/2012	EW WEL	0	0	EAST COAST DRILLING INC	AIMCO	WITHDRAWAL	DOMESTIC						X	
523675	PHILADELPHIA			5/23/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	126 Housing Development Co	WITHDRAWAL	DOMESTIC						X	
523678	PHILADELPHIA			5/23/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	126 Housing Development Co	WITHDRAWAL	DOMESTIC						X	
523681	PHILADELPHIA			5/22/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	126 Housing Development Co	WITHDRAWAL	DOMESTIC						X	
523685	PHILADELPHIA			5/22/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	126 Housing Development Co	WITHDRAWAL	DOMESTIC						X	
523686	PHILADELPHIA			5/22/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	126 Housing Development Co	WITHDRAWAL	DOMESTIC						X	
523687	PHILADELPHIA			5/21/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	126 Housing Development Co	WITHDRAWAL	DOMESTIC						X	
523691	PHILADELPHIA			5/21/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	126 Housing Development Co	WITHDRAWAL	DOMESTIC						X	
523694	PHILADELPHIA			6/18/2008	EW WEL	0	0	AMERIDRILL INC.	Bancroft Green	WITHDRAWAL	DOMESTIC						X	
523697	PHILADELPHIA			6/26/2008	EW WEL	0	0	AMERIDRILL INC.	Bancroft Green	WITHDRAWAL	DOMESTIC						X	
523700	PHILADELPHIA			6/17/2008	EW WEL	0	0	AMERIDRILL INC.	Bancroft Green	WITHDRAWAL	DOMESTIC						X	

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
523703	PHILADELPHIA			6/23/2008	EW WEL	0	0	AMERIDRILL INC.	Bancroft Green	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523705	PHILADELPHIA			6/1/1989	EW WEL	0	0	REITH BROS. INC	Louisran	WITHDRAWAL	DOMESTIC		o/PaGWIS					X
523710	PHILADELPHIA			4/24/2014	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Store Number 24047	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523712	PHILADELPHIA			4/24/2014	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Store Number 24047	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523714	PHILADELPHIA			9/5/2013	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Corporation	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523717	PHILADELPHIA			9/3/2013	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Corporation	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523719	PHILADELPHIA			9/5/2013	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Corporation	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523724	PHILADELPHIA			12/4/2012	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Corporation	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523739	PHILADELPHIA			12/5/2012	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Corporation	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523742	PHILADELPHIA			9/3/2013	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Corporation	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523746	PHILADELPHIA			#####	EW WEL	0	0	ADVANCED DRILLING INC	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523748	PHILADELPHIA			6/7/2012	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Highlander Realty Managemen	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523751	PHILADELPHIA			6/7/2012	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Highlander Realty Managemen	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523754	PHILADELPHIA			6/7/2012	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Highlander Realty Managemen	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523756	PHILADELPHIA			6/7/2012	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Highlander Realty Managemen	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523758	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Philadelphia Zoo	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523760	PHILADELPHIA			1/6/2006	EW WEL	0	0	THOMAS G KEYES INC	McDonald's Corp.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523762	PHILADELPHIA			#####	EW WEL	0	0	THOMAS G KEYES INC	Wawa Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523763	PHILADELPHIA			2/16/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Active Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS		X			
523768	PHILADELPHIA			5/14/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Coravena	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523769	PHILADELPHIA			5/12/2005	EW WEL	0	0	PHARES FRY WELL DRILLING & PUN	Miller Pump Systems Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523772	PHILADELPHIA			5/13/2005	EW WEL	0	0	PHARES FRY WELL DRILLING & PUN	Miller Pump Systems Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523775	PHILADELPHIA			3/4/2004	EW WEL	0	0	THOMAS G KEYES INC	Muhalayadden Fellowship	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523777	PHILADELPHIA			#####	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	HDR One Company/Many Sok	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523780	PHILADELPHIA			2/25/2009	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS		X			
523783	PHILADELPHIA			2/18/2009	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	1st Presbyterian Church of Hu	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523788	PHILADELPHIA			5/23/2012	EW WEL	0	0		DePaul	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523793	PHILADELPHIA			5/23/2012	EW WEL	0	0		DePaul	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523796	PHILADELPHIA			10/3/2008	EW WEL	0	0	EAST COAST DRILLING INC	11-Jul	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523799	PHILADELPHIA			12/4/2009	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Electric Co.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523802	PHILADELPHIA			12/3/2009	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Electric Co.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523804	PHILADELPHIA			12/3/2009	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Electric Co.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523807	PHILADELPHIA			12/5/2009	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia; Division c	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523810	PHILADELPHIA			12/4/2008	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia; Division c	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523812	PHILADELPHIA			12/5/2008	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia; Division c	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523814	PHILADELPHIA			2/27/2009	EW WEL	0	0	F M & W DRILLING INC	Aspira	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523818	PHILADELPHIA			2/26/2009	EW WEL	0	0	F M & W DRILLING INC	Aspira	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523819	PHILADELPHIA			2/26/2009	EW WEL	0	0	F M & W DRILLING INC	Aspira	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523821	PHILADELPHIA			2/26/2009	EW WEL	0	0	F M & W DRILLING INC	Aspira	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523824	PHILADELPHIA			1/30/2009	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mercy Neighborhood Ministri	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523826	PHILADELPHIA			1/29/2009	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mercy Neighborhood Ministri	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523828	PHILADELPHIA			7/16/2009	EW WEL	0	0	EAST COAST DRILLING INC	11-Jul	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523832	PHILADELPHIA			7/16/2009	EW WEL	0	0	EAST COAST DRILLING INC	11-Jul	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523834	PHILADELPHIA			7/16/2009	EW WEL	0	0	EAST COAST DRILLING INC	11-Jul	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523835	PHILADELPHIA			9/30/2009	EW WEL	0	0		Philadelphia Gas Works	WITHDRAWAL	DOMESTIC		o/PaGWIS		X			
523836	PHILADELPHIA			#####	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Store	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523837	PHILADELPHIA			#####	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Store	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523838	PHILADELPHIA			#####	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Store	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523840	PHILADELPHIA			#####	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Store	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523842	PHILADELPHIA			#####	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Store	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523844	PHILADELPHIA			#####	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Store	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523845	PHILADELPHIA			#####	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Store	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523848	PHILADELPHIA			#####	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Store	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523850	PHILADELPHIA			#####	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Store	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523852	PHILADELPHIA			10/3/2011	EW WEL	0	0	EAST COAST DRILLING INC	Glavo Smith Kline	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523855	PHILADELPHIA			8/28/2012	EW WEL	0	0	EAST COAST DRILLING INC	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523857	PHILADELPHIA			10/7/2011	EW WEL	0	0	EAST COAST DRILLING INC	PECO	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523862	PHILADELPHIA			10/7/2011	EW WEL	0	0	EAST COAST DRILLING INC	PECO	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523865	PHILADELPHIA			10/7/2011	EW WEL	0	0	EAST COAST DRILLING INC	PECO	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523867	PHILADELPHIA			8/30/2012	EW WEL	0	0	EAST COAST DRILLING INC	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523870	PHILADELPHIA			8/28/2012	EW WEL	0	0	EAST COAST DRILLING INC	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523872	PHILADELPHIA			8/31/2012	EW WEL	0	0	EAST COAST DRILLING INC	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523873	PHILADELPHIA			8/30/2012	EW WEL	0	0	EAST COAST DRILLING INC	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523875	PHILADELPHIA			8/28/2012	EW WEL	0	0	EAST COAST DRILLING INC	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523878	PHILADELPHIA			8/27/2012	EW WEL	0	0	EAST COAST DRILLING INC	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523880	PHILADELPHIA			8/29/2012	EW WEL	0	0	EAST COAST DRILLING INC	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523883	PHILADELPHIA			8/29/2012	EW WEL	0	0	EAST COAST DRILLING INC	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523885	PHILADELPHIA			4/24/2009	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Balkrushna	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523888	PHILADELPHIA			4/23/2009	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Balkrushna	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523890	PHILADELPHIA			4/23/2009	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Balkrushna	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523892	PHILADELPHIA			4/2/2009	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS		X			
523894	PHILADELPHIA			4/9/2009	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Plains Terminal Pipeline LP	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523897	PHILADELPHIA			4/8/2009	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Plains Terminal Pipeline LP	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523900	PHILADELPHIA			4/8/2009	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Plains Terminal Pipeline LP	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	



Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
523904	PHILADELPHIA			4/9/2009	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Plains Terminal Pipeline PC	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523906	PHILADELPHIA			4/9/2009	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Plains Terminal Pipeline PC	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523908	PHILADELPHIA			3/19/2009	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS		X			
523911	PHILADELPHIA			9/15/2009	EW WEL	0	0	F M & W DRILLING INC	Philadelphia Redevelopment	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523913	PHILADELPHIA			9/15/2009	EW WEL	0	0	F M & W DRILLING INC	Philadelphia Redevelopment	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523915	PHILADELPHIA			9/15/2009	EW WEL	0	0	F M & W DRILLING INC	Philadelphia Redevelopment	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523918	PHILADELPHIA			3/26/2004	EW WEL	0	0	SUMMIT DRILLING CO INC	Cumberland Farms	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523934	PHILADELPHIA			9/30/2010	EW WEL	0	0	EAST COAST DRILLING INC	DePaul	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523937	PHILADELPHIA			9/30/2010	EW WEL	0	0	EAST COAST DRILLING INC	DePaul	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523939	PHILADELPHIA			6/27/2008	EW WEL	0	0	AMERIDRILL INC.	Bulk Fuel Storage	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523943	PHILADELPHIA			6/27/2008	EW WEL	0	0	AMERIDRILL INC.	Bulk Fuel Storage	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523944	PHILADELPHIA			5/27/2008	EW WEL	0	0	AMERIDRILL INC.	Bulk Fuel Storage	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523946	PHILADELPHIA			5/27/2008	EW WEL	0	0	AMERIDRILL INC.	Bulk Fuel Storage	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523948	PHILADELPHIA			5/1/2008	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	The Philadelphia School	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523950	PHILADELPHIA			9/14/2007	EW WEL	0	0	EDWARD POWELL PUMP & WELL	Lankenau High Brick House	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523952	PHILADELPHIA			9/14/2007	EW WEL	0	0	EDWARD POWELL PUMP & WELL	Lankenau High Brick House	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523953	PHILADELPHIA			9/13/2007	EW WEL	0	0	EDWARD POWELL PUMP & WELL	Lankenau High Brick House	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523955	PHILADELPHIA			9/13/2007	EW WEL	0	0	EDWARD POWELL PUMP & WELL	Lankenau High Brick House	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523958	PHILADELPHIA			4/9/2008	EW WEL	0	0	F M & W DRILLING INC	Aspira	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523959	PHILADELPHIA			4/9/2008	EW WEL	0	0	F M & W DRILLING INC	Aspira	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523960	PHILADELPHIA			5/14/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Knights Road Shopping Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523962	PHILADELPHIA			5/14/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Knights Road Shopping Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523963	PHILADELPHIA			5/14/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Knights Road Shopping Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523965	PHILADELPHIA			5/14/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Knights Road Shopping Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523966	PHILADELPHIA			5/7/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Morgan	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523967	PHILADELPHIA			5/7/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Morgan	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523968	PHILADELPHIA			5/7/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Morgan	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523969	PHILADELPHIA			5/8/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Morgan	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523970	PHILADELPHIA			5/8/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Morgan	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523972	PHILADELPHIA			5/8/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Morgan	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523975	PHILADELPHIA			5/22/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mercy Neighborhood Ministri	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523977	PHILADELPHIA			5/22/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mercy Neighborhood Ministri	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523979	PHILADELPHIA			5/22/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mercy Neighborhood Ministri	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523981	PHILADELPHIA			3/14/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Westrum BT LP	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523984	PHILADELPHIA			3/14/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Westrum BT LP	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523987	PHILADELPHIA			3/6/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	The Philadelphia School	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523996	PHILADELPHIA			3/5/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	The Philadelphia School	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523997	PHILADELPHIA			3/5/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	The Philadelphia School	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
523999	PHILADELPHIA			3/5/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	The Philadelphia School	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524000	PHILADELPHIA			3/5/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	The Philadelphia School	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524001	PHILADELPHIA			1/24/2008	EW WEL	0	0	EAST COAST DRILLING INC	Redevelopment Authority of I	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524003	PHILADELPHIA			1/23/2008	EW WEL	0	0	EAST COAST DRILLING INC	Redevelopment Authority of I	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524005	PHILADELPHIA			1/25/2008	EW WEL	0	0	EAST COAST DRILLING INC	Redevelopment Authority of I	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524007	PHILADELPHIA			1/22/2008	EW WEL	0	0	EAST COAST DRILLING INC	Redevelopment Authority of I	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524009	PHILADELPHIA			1/24/2008	EW WEL	0	0	EAST COAST DRILLING INC	Redevelopment Authority of I	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524011	PHILADELPHIA			1/29/2008	EW WEL	0	0	F M & W DRILLING INC	Aspira	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524042	PHILADELPHIA			1/29/2008	EW WEL	0	0	F M & W DRILLING INC	Aspira	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524043	PHILADELPHIA			1/29/2008	EW WEL	0	0	F M & W DRILLING INC	Aspira	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524044	PHILADELPHIA			1/28/2008	EW WEL	0	0	F M & W DRILLING INC	Aspira	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524045	PHILADELPHIA			1/28/2008	EW WEL	0	0	F M & W DRILLING INC	Aspira	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524046	PHILADELPHIA			3/13/2008	EW WEL	0	0	EAST COAST DRILLING INC	General Electric	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524047	PHILADELPHIA			#####	EW WEL	0	0	F M & W DRILLING INC	Tasty Kake	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524048	PHILADELPHIA			#####	EW WEL	0	0	F M & W DRILLING INC	Tasty Kake	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524049	PHILADELPHIA			#####	EW WEL	0	0	F M & W DRILLING INC	Tasty Kake	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524051	PHILADELPHIA			11/1/2007	EW WEL	0	0	C S GARBER & SONS INC	EZ and Son Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524052	PHILADELPHIA			11/1/2007	EW WEL	0	0	C S GARBER & SONS INC	EZ and Son Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524053	PHILADELPHIA			11/1/2007	EW WEL	0	0	C S GARBER & SONS INC	EZ and Son Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524054	PHILADELPHIA			11/1/2007	EW WEL	0	0	C S GARBER & SONS INC	EZ and Son Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524055	PHILADELPHIA			11/1/2007	EW WEL	0	0	C S GARBER & SONS INC	EZ and Son Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524056	PHILADELPHIA			3/6/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	PGW	WITHDRAWAL	DOMESTIC		o/PaGWIS		X			
524058	PHILADELPHIA			3/6/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	PGW	WITHDRAWAL	DOMESTIC		o/PaGWIS		X			
524059	PHILADELPHIA			3/6/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	PGW	WITHDRAWAL	DOMESTIC		o/PaGWIS		X			
524060	PHILADELPHIA			3/5/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	PGW	WITHDRAWAL	DOMESTIC		o/PaGWIS		X			
524061	PHILADELPHIA			5/20/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS		X			
524062	PHILADELPHIA			1/18/2008	EW WEL	0	0			WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524064	PHILADELPHIA			1/18/2008	EW WEL	0	0			WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524065	PHILADELPHIA			8/6/2008	EW WEL	0	0	AMERIDRILL INC.	Stadium Supplying	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524066	PHILADELPHIA			#####	EW WEL	0	0	F M & W DRILLING INC	Tasty Kake	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524067	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE - CVM INDU	Sorbee's Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524068	PHILADELPHIA			10/7/2007	EW WEL	0	0	A LEXANDER MACPHEE - CVM INDU	Sorbee's Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524069	PHILADELPHIA			7/15/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS		X			
524070	PHILADELPHIA			7/18/2008	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia; Division c	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524071	PHILADELPHIA			7/21/2008	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia; Division c	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524072	PHILADELPHIA			7/23/2008	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia; Division c	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
524073	PHILADELPHIA			3/6/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	PGW	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
524074	PHILADELPHIA			1/17/2008	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia; Division c	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524075	PHILADELPHIA			7/16/2008	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia; Division c	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524076	PHILADELPHIA			7/16/2008	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia; Division c	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524077	PHILADELPHIA			7/21/2008	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia; Division c	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524078	PHILADELPHIA			7/18/2008	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia; Division c	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524079	PHILADELPHIA			7/18/2008	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia; Division c	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524080	PHILADELPHIA			2/18/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Cardone	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524081	PHILADELPHIA			2/19/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Cardone	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524082	PHILADELPHIA			2/19/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Cardone	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524083	PHILADELPHIA			2/18/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Cardone	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524084	PHILADELPHIA			2/18/2013	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Cardone	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524085	PHILADELPHIA			6/25/2010	EW WEL	0	0	EAST COAST DRILLING INC	PECO	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524088	PHILADELPHIA			5/6/2009	EW WEL	0	0	EAST COAST DRILLING INC	Foreman	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524090	PHILADELPHIA			5/6/2009	EW WEL	0	0	EAST COAST DRILLING INC	Foreman	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524093	PHILADELPHIA			5/6/2009	EW WEL	0	0	EAST COAST DRILLING INC	Foreman	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524096	PHILADELPHIA			6/7/2012	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Corporation	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524104	PHILADELPHIA			6/7/2012	EW WEL	0	0	EAST COAST DRILLING INC	7-11 Corporation	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524107	PHILADELPHIA			5/12/2011	EW WEL	0	0	ENVIROPROBE SERVICE INC.		WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524110	PHILADELPHIA			5/11/2011	EW WEL	0	0	ENVIROPROBE SERVICE INC.		WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524113	PHILADELPHIA			4/24/2009	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Nully	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524117	PHILADELPHIA			4/23/2009	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Nully	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524120	PHILADELPHIA			4/23/2009	EW WEL	0	0	ENVIROPROBE SERVICE INC.	Nully	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524123	PHILADELPHIA			3/9/2012	EW WEL	0	0	EAST COAST DRILLING INC	Allegheny Iron and Metal	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524125	PHILADELPHIA			3/8/2012	EW WEL	0	0	EAST COAST DRILLING INC	Allegheny Iron and Metal	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524126	PHILADELPHIA			3/8/2012	EW WEL	0	0	EAST COAST DRILLING INC	Allegheny Iron and Metal	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524128	PHILADELPHIA			3/20/2009	EW WEL	0	0	TRC ENGINEERS INC.	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524131	PHILADELPHIA			3/20/2009	EW WEL	0	0	TRC ENGINEERS INC.	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524133	PHILADELPHIA			3/11/2009	EW WEL	0	0	TRC ENGINEERS INC.	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524137	PHILADELPHIA			3/11/2009	EW WEL	0	0	TRC ENGINEERS INC.	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524139	PHILADELPHIA			3/4/2010	EW WEL	0	0	F M & W DRILLING INC	Tucker House Nursing Home	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524141	PHILADELPHIA			3/4/2010	EW WEL	0	0	F M & W DRILLING INC	Tucker House Nursing Home	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524143	PHILADELPHIA			3/4/2010	EW WEL	0	0	F M & W DRILLING INC	Tucker House Nursing Home	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524145	PHILADELPHIA			9/18/2009	EW WEL	0	0	EAST COAST DRILLING INC	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524148	PHILADELPHIA			9/16/2009	EW WEL	0	0	EAST COAST DRILLING INC	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524150	PHILADELPHIA			9/17/2009	EW WEL	0	0	EAST COAST DRILLING INC	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524153	PHILADELPHIA			9/18/2009	EW WEL	0	0	EAST COAST DRILLING INC	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524155	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Stubbs Enterprises	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524163	PHILADELPHIA			8/7/2008	EW WEL	0	0	AMERIDRILL INC.	Westron	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524175	PHILADELPHIA			8/7/2008	EW WEL	0	0	AMERIDRILL INC.	Westron	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524177	PHILADELPHIA			8/7/2008	EW WEL	0	0	AMERIDRILL INC.	Westron	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524178	PHILADELPHIA			8/7/2008	EW WEL	0	0	AMERIDRILL INC.	Westron	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524179	PHILADELPHIA			2/25/2009	EW WEL	0	0	AMERIDRILL INC.	Kimco Realty	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524180	PHILADELPHIA			3/12/2009	EW WEL	0	0	AMERIDRILL INC.	Getty	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524183	PHILADELPHIA			2/13/2009	EW WEL	0	0	AMERIDRILL INC.	Getty	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524185	PHILADELPHIA			2/5/2009	EW WEL	0	0	AMERIDRILL INC.	Luke Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524188	PHILADELPHIA			2/20/2009	EW WEL	0	0	AMERIDRILL INC.	Liberty Gas Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524190	PHILADELPHIA			2/20/2009	EW WEL	0	0	AMERIDRILL INC.	Liberty Gas Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524193	PHILADELPHIA			2/20/2009	EW WEL	0	0	AMERIDRILL INC.	Liberty Gas Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524196	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Halsen	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524198	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Halsen	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524201	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Halsen	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524202	PHILADELPHIA			1/12/2010	EW WEL	0	0		Dupont Marshall Labs	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524204	PHILADELPHIA			2/20/2009	EW WEL	0	0	AMERIDRILL INC.	Liberty Gas Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524205	PHILADELPHIA			1/14/2010	EW WEL	0	0		Dupont Marshall Labs	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524207	PHILADELPHIA			2/20/2009	EW WEL	0	0	AMERIDRILL INC.	Liberty Gas Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524210	PHILADELPHIA			1/11/2010	EW WEL	0	0		Dupont Marshall Labs	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524212	PHILADELPHIA			1/15/2010	EW WEL	0	0		Dupont Marshall Labs	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524213	PHILADELPHIA			1/15/2010	EW WEL	0	0		Dupont Marshall Labs	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524214	PHILADELPHIA			1/12/2010	EW WEL	0	0		Dupont Marshall Labs	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524216	PHILADELPHIA			8/10/2010	EW WEL	0	0	EAST COAST DRILLING INC	PECO	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
524219	PHILADELPHIA			2/19/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	BP Number 1145	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
524221	PHILADELPHIA			2/19/2008	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	BP Number 1145	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
524223	PHILADELPHIA			7/1/2006	EW WEL	0	0	C S GARBER & SONS INC	Z Bros. Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	X
524225	PHILADELPHIA			7/1/2006	EW WEL	0	0	C S GARBER & SONS INC	Z Bros. Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	X
540311	PHILADELPHIA			5/25/1993	EW WEL	0	0	TABASCO DRILLING CORPORATION	progress lighting	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
540313	PHILADELPHIA			12/7/2005	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	national car rental	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
540314	PHILADELPHIA			12/6/2005	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	national car rental	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
540315	PHILADELPHIA			12/6/2005	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	national car rental	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
540316	PHILADELPHIA			12/6/2005	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	national car rental	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
540318	PHILADELPHIA			12/6/2005	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	national car rental	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
540321	PHILADELPHIA			12/8/2005	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	national car rental	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
540322	PHILADELPHIA			12/5/2005	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	national car rental	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
540324	PHILADELPHIA			#####	EW WEL	0	0	TALON DRILLING COMPANY	vacant lot	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
540329	PHILADELPHIA			6/20/1997	EW WEL	0	0	SALOMONE BROS. INC.	patriot american hospitality in	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
540332	PHILADELPHIA			6/19/1997	EW WEL	0	0	SALOMONE BROS. INC.	patriot american hospitality in	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
552338	PHILADELPHIA			#####	EW WEL	39.9175	-75.19216	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
552339	PHILADELPHIA			2/20/2014	EW WEL	39.9209	-75.19156	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
552340	PHILADELPHIA			3/4/2014	EW WEL	39.91665	-75.19384	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
552350	PHILADELPHIA			3/5/2014	EW WEL	39.91576	-75.19208	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
552351	PHILADELPHIA			3/6/2014	EW WEL	39.91779	-75.1962	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
552392	PHILADELPHIA			3/12/2014	EW WEL	39.91779	-75.1962	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
552406	PHILADELPHIA			3/11/2014	EW WEL	39.91773	-75.1962	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
552524	PHILADELPHIA			#####	EW WEL	39.91667	-75.19388	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
552525	PHILADELPHIA			1/15/2014	EW WEL	39.91783	-75.19622	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
552526	PHILADELPHIA	2615 Hartranft St		1/9/2014	EW WEL	39.91301	-75.19408	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
552527	PHILADELPHIA			2/4/2014	EW WEL	39.9208	-75.19148	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
552528	PHILADELPHIA			2/25/2014	EW WEL	39.92107	-75.19153	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
552529	PHILADELPHIA			2/27/2014	EW WEL	39.91752	-75.19219	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
552538	PHILADELPHIA			12/3/2013	EW WEL	39.91569	-75.19208	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
575804	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	New Auto Repair Shop	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
575805	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	New Auto Repair Shop	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
594159	PHILADELPHIA			12/9/2014	OTHER	39.91919	-75.19563	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
594160	PHILADELPHIA			12/8/2014	EW WEL	39.91953	-75.19478	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
594162	PHILADELPHIA			#####	EW WEL	39.91684	-75.19541	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
594163	PHILADELPHIA			12/5/2014	EW WEL	39.91707	-75.19437	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
594164	PHILADELPHIA	3102 S 26th St	19145	1/7/2015	OTHER	39.91919	-75.19123	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
594165	PHILADELPHIA	3100 S 26th St	19145	1/6/2015	OTHER	39.91936	-75.19122	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
594525	PHILADELPHIA	8000 ESSINGTON AVE	19153	#####	EW WEL	39.89489	-75.22905	EICHELBERGERS INC.	UNITED AIRLINES	OBSERVATION	UNUSED				X			
594526	PHILADELPHIA	8000 ESSINGTON AVE	19153	#####	EW WEL	39.89459	-75.22897	EICHELBERGERS INC.	UNITED AIRLINES	OBSERVATION	UNUSED				X			
594527	PHILADELPHIA	8000 ESSINGTON AVE	19153	#####	EW WEL	39.89462	-75.22914	EICHELBERGERS INC.	UNITED AIRLINES	OBSERVATION	UNUSED				X			
594650	PHILADELPHIA	3106 S 26th St	19145	1/8/2015	OTHER	39.91913	-75.19124	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
594710	PHILADELPHIA	3100 S 26th St	19145	1/7/2015	EW WEL	39.9193	-75.1912	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
594711	PHILADELPHIA	3100 S 26th St	19145	1/8/2015	EW WEL	39.91923	-75.19124	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
594712	PHILADELPHIA	3102 S 26th St	19145	1/9/2015	EW WEL	39.9192	-75.19123	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
596204	PHILADELPHIA			12/9/2014	EW WEL	39.91751	-75.1931	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
596660	PHILADELPHIA	3118 S 26th St	19145	1/13/2015	OTHER	39.91887	-75.1913	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
596661	PHILADELPHIA	3112 S 26th St	19145	1/12/2015	OTHER	39.91899	-75.19127	PARRATT-WOLFF INC	Evergreen Resource Managen	MONITORING	OTHER				X	X		
596905	PHILADELPHIA	2601 PENROSE AVE.	19145	#####	EW WEL	39.90588	-75.19399	EICHELBERGERS INC.	SUN COMPANY INC.	OBSERVATION	UNUSED				X	X		
603005	PHILADELPHIA			8/23/1999	EW WEL	0	0	TALON DRILLING COMPANY	park chase apts	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603006	PHILADELPHIA			8/23/1999	EW WEL	0	0	TALON DRILLING COMPANY	park chase apts	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603007	PHILADELPHIA			8/23/1999	EW WEL	0	0	TALON DRILLING COMPANY	park chase apts	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603588	PHILADELPHIA			1/8/2002	EW WEL	0	0	AMERIDRILL INC.	Getty Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603589	PHILADELPHIA			10/1/1988	EW WEL	0	0	C S GARBER & SONS INC	Groundwater Technology	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603590	PHILADELPHIA			10/1/1988	EW WEL	0	0	C S GARBER & SONS INC	Groundwater Technology	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603591	PHILADELPHIA			10/1/1988	EW WEL	0	0	C S GARBER & SONS INC	Groundwater Technology	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603593	PHILADELPHIA			7/2/1990	EW WEL	0	0	UNI-TECH DRILLING CO INC	Chelsen Historic Prop	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603594	PHILADELPHIA			7/2/1990	EW WEL	0	0	UNI-TECH DRILLING CO INC	Chelsen Historic Prop	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603595	PHILADELPHIA			7/2/1990	EW WEL	0	0	UNI-TECH DRILLING CO INC	Chelsen Historic Prop	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603596	PHILADELPHIA			7/2/1990	EW WEL	0	0	UNI-TECH DRILLING CO INC	Chelsen Historic Prop	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603597	PHILADELPHIA			7/2/1990	EW WEL	0	0	UNI-TECH DRILLING CO INC	Chelsen Historic Prop	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603598	PHILADELPHIA			#####	EW WEL	0	0	C S GARBER & SONS INC	Girard Medical Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603599	PHILADELPHIA			#####	EW WEL	0	0	C S GARBER & SONS INC	Girard Medical Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603601	PHILADELPHIA			#####	EW WEL	0	0	C S GARBER & SONS INC	Girard Medical Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603602	PHILADELPHIA			6/1/1989	EW WEL	0	0	C S GARBER & SONS INC	Groundwater and Environmen	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603605	PHILADELPHIA			6/1/1989	EW WEL	0	0	C S GARBER & SONS INC	Groundwater and Environmen	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603606	PHILADELPHIA			6/1/1989	EW WEL	0	0	C S GARBER & SONS INC	Groundwater and Environmen	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603613	PHILADELPHIA			6/1/1988	EW WEL	0	0	C S GARBER & SONS INC	Groundwater and Environmen	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603614	PHILADELPHIA			1/30/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603623	PHILADELPHIA			1/30/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603625	PHILADELPHIA			1/30/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603626	PHILADELPHIA			11/1/1990	EW WEL	0	0	C S GARBER & SONS INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603629	PHILADELPHIA			11/1/1990	EW WEL	0	0	C S GARBER & SONS INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603632	PHILADELPHIA			11/1/1990	EW WEL	0	0	C S GARBER & SONS INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603647	PHILADELPHIA			6/1/1990	EW WEL	0	0	C S GARBER & SONS INC	Mobil Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603650	PHILADELPHIA			6/1/1990	EW WEL	0	0	C S GARBER & SONS INC	Mobil Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603652	PHILADELPHIA			6/1/1990	EW WEL	0	0	C S GARBER & SONS INC	Mobil Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603653	PHILADELPHIA			6/1/1990	EW WEL	0	0	C S GARBER & SONS INC	Mobil Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603655	PHILADELPHIA			5/25/2006	EW WEL	0	0	C S GARBER & SONS INC	McGonigle's Auto Repair	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603656	PHILADELPHIA			5/25/2006	EW WEL	0	0	C S GARBER & SONS INC	McGonigle's Auto Repair	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603657	PHILADELPHIA			5/25/2006	EW WEL	0	0	C S GARBER & SONS INC	McGonigle's Auto Repair	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603659	PHILADELPHIA			5/25/2006	EW WEL	0	0	C S GARBER & SONS INC	McGonigle's Auto Repair	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603660	PHILADELPHIA			7/21/1999	EW WEL	0	0	TALON DRILLING COMPANY	Merit Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603663	PHILADELPHIA			7/21/1999	EW WEL	0	0	TALON DRILLING COMPANY	Merit Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603664	PHILADELPHIA			7/21/1999	EW WEL	0	0	TALON DRILLING COMPANY	Merit Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603665	PHILADELPHIA			3/1/1991	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603666	PHILADELPHIA			3/1/1991	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603667	PHILADELPHIA			3/1/1991	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
603668	PHILADELPHIA			2/1/2000	EW WEL	0	0	CUMMINGS WATER SERVICE INC.	Pennoli Associates	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603670	PHILADELPHIA			2/1/2000	EW WEL	0	0	CUMMINGS WATER SERVICE INC.	Pennoni Associates	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603674	PHILADELPHIA			2/1/2000	EW WEL	0	0	CUMMINGS WATER SERVICE INC.	Pennoni Associates	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603676	PHILADELPHIA			3/16/1989	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPORATED	Wyckoff Property	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603677	PHILADELPHIA			7/20/2000	EW WEL	0	0	ADT- DIAMOND DRILLING INC.	Binder	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603678	PHILADELPHIA			1/27/2006	EW WEL	0	0	AMERIDRILL INC.	Clearview Landfill	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603679	PHILADELPHIA			12/8/2005	EW WEL	0	0	AMERIDRILL INC.	Clearview Landfill	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603683	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Clearview Landfill	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603685	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Clearview Landfill	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603688	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Clearview Landfill	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603693	PHILADELPHIA			8/3/1990	EW WEL	0	0	SALOMONE BROS. INC.	Penn District Inc	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603694	PHILADELPHIA			7/14/1995	EW WEL	0	0	SUMMIT DRILLING CO INC	Vacant Fenced Yard	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603695	PHILADELPHIA			7/25/1995	EW WEL	0	0	SUMMIT DRILLING CO INC	Vacant Fenced Yard	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603696	PHILADELPHIA			8/27/1991	EW WEL	0	0	COS/DIVISION LAYNE WESTERN CO	Circuit City	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603697	PHILADELPHIA			8/28/1991	EW WEL	0	0	COS/DIVISION LAYNE WESTERN CO	Circuit City	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603699	PHILADELPHIA			4/27/2000	EW WEL	0	0	EAST COAST DRILLING INC	Bustleton Post Office	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603701	PHILADELPHIA			4/27/2000	EW WEL	0	0	EAST COAST DRILLING INC	Bustleton Post Office	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603702	PHILADELPHIA			3/24/1993	EW WEL	0	0	UNI-TECH DRILLING CO INC	Whitman's	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603704	PHILADELPHIA			7/27/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603707	PHILADELPHIA			7/29/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603708	PHILADELPHIA			7/29/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603709	PHILADELPHIA			7/30/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603710	PHILADELPHIA			7/30/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603711	PHILADELPHIA			7/31/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603712	PHILADELPHIA			7/31/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603713	PHILADELPHIA			8/1/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603714	PHILADELPHIA			8/1/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603715	PHILADELPHIA			8/5/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603716	PHILADELPHIA			8/6/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603717	PHILADELPHIA			8/7/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603718	PHILADELPHIA			8/7/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603720	PHILADELPHIA			8/13/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603721	PHILADELPHIA			8/8/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603722	PHILADELPHIA			8/9/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603725	PHILADELPHIA			8/15/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603729	PHILADELPHIA			#####	EW WEL	0	0	TALON DRILLING COMPANY	1st Washington Regency Cent	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603732	PHILADELPHIA			#####	EW WEL	0	0	TALON DRILLING COMPANY	1st Washington Regency Cent	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603734	PHILADELPHIA			12/6/2005	EW WEL	0	0	TALON DRILLING COMPANY	1st Washington Regency Cent	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603737	PHILADELPHIA			1/16/2003	EW WEL	0	0	TALON DRILLING COMPANY	11-Jul	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603739	PHILADELPHIA			2/15/2006	EW WEL	0	0	AMERIDRILL INC.	27th and Girard LP	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603743	PHILADELPHIA			4/25/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	30th Street Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
603745	PHILADELPHIA			4/26/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	30th Street Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604316	PHILADELPHIA			5/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Abandoned salvage yard	MONITORING	INDUSTRIAL		o/PaGWIS		X			
604316	PHILADELPHIA			5/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Abandoned salvage yard	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604317	PHILADELPHIA			3/29/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Active BP	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604317	PHILADELPHIA			3/29/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Active BP	MONITORING	OTHER		o/PaGWIS		X	X		
604318	PHILADELPHIA			6/14/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Active Sunoco Station	MONITORING	OTHER		o/PaGWIS		X	X		
604318	PHILADELPHIA			6/14/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Active Sunoco Station				o/PaGWIS			X		
604319	PHILADELPHIA			6/14/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Active Sunoco Station	MONITORING	OTHER		o/PaGWIS		X	X		
604319	PHILADELPHIA			6/14/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Active Sunoco Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604320	PHILADELPHIA			6/15/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Active Sunoco Station	MONITORING	OTHER		o/PaGWIS		X	X		
604320	PHILADELPHIA			6/15/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Active Sunoco Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604321	PHILADELPHIA			6/15/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Active Sunoco Station	MONITORING	OTHER		o/PaGWIS		X	X		
604321	PHILADELPHIA			6/15/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Active Sunoco Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604322	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	MONITORING	OTHER		o/PaGWIS		X			
604322	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	MONITORING	UNKNOWN		o/PaGWIS		X			
604322	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604323	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	MONITORING	OTHER		o/PaGWIS		X			
604323	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	MONITORING	UNKNOWN		o/PaGWIS		X			
604323	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604324	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	MONITORING	OTHER		o/PaGWIS		X			
604324	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	MONITORING	UNKNOWN		o/PaGWIS		X			
604324	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604325	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	MONITORING	UNKNOWN		o/PaGWIS		X			
604325	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604325	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	MONITORING	OTHER		o/PaGWIS		X			
604326	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	MONITORING	OTHER		o/PaGWIS		X			
604326	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	MONITORING	UNKNOWN		o/PaGWIS		X			
604326	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604327	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	MONITORING	OTHER		o/PaGWIS		X			
604327	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	MONITORING	UNKNOWN		o/PaGWIS		X			
604327	PHILADELPHIA			5/5/1999	EW WEL	0	0	ENVIRONMENTAL REMEDIATION C	Adiletto	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604328	PHILADELPHIA			4/20/2006	EW WEL	0	0	SUMMIT DRILLING CO INC	Amerada Hess Corp	MONITORING	INDUSTRIAL		o/PaGWIS		X			
604328	PHILADELPHIA			4/20/2006	EW WEL	0	0	SUMMIT DRILLING CO INC	Amerada Hess Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information																Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark		Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
604329	PHILADELPHIA			4/20/2006	EW WEL	0	0	SUMMIT DRILLING CO INC	Amerada Hess Corp	MONITORING	INDUSTRIAL		o/PaGWIS		X				
604329	PHILADELPHIA			4/20/2006	EW WEL	0	0	SUMMIT DRILLING CO INC	Amerada Hess Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604330	PHILADELPHIA			4/15/2003	EW WEL	0	0	SUMMIT DRILLING CO INC	Amerada Hess Corp	MONITORING	INDUSTRIAL		o/PaGWIS		X				
604330	PHILADELPHIA			4/15/2003	EW WEL	0	0	SUMMIT DRILLING CO INC	Amerada Hess Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604331	PHILADELPHIA			5/22/2003	EW WEL	0	0	SUMMIT DRILLING CO INC	Amerada Hess Corp	MONITORING	INDUSTRIAL		o/PaGWIS		X				
604331	PHILADELPHIA			5/22/2003	EW WEL	0	0	SUMMIT DRILLING CO INC	Amerada Hess Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604332	PHILADELPHIA			5/22/2003	EW WEL	0	0	SUMMIT DRILLING CO INC	Amerada Hess Corp	MONITORING	INDUSTRIAL		o/PaGWIS		X				
604332	PHILADELPHIA			5/22/2003	EW WEL	0	0	SUMMIT DRILLING CO INC	Amerada Hess Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604333	PHILADELPHIA			1/10/2005	EW WEL	0	0	SUMMIT DRILLING CO INC	Amerada Hess Corp	MONITORING	INDUSTRIAL		o/PaGWIS		X				
604333	PHILADELPHIA			1/10/2005	EW WEL	0	0	SUMMIT DRILLING CO INC	Amerada Hess Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604334	PHILADELPHIA			#####	EW WEL	0	0	SAMUEL STOTHOFF COMPANY INC	American RRT Fiber Supply	MONITORING	OTHER		o/PaGWIS		X				
604334	PHILADELPHIA			#####	EW WEL	0	0	SAMUEL STOTHOFF COMPANY INC	American RRT Fiber Supply	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604335	PHILADELPHIA			5/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604335	PHILADELPHIA			5/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	MONITORING	UNKNOWN		o/PaGWIS		X	X			
604336	PHILADELPHIA			5/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	MONITORING	UNKNOWN		o/PaGWIS		X	X			
604336	PHILADELPHIA			5/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604337	PHILADELPHIA			5/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604337	PHILADELPHIA			5/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	MONITORING	UNKNOWN		o/PaGWIS		X	X			
604338	PHILADELPHIA			5/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	MONITORING	UNKNOWN		o/PaGWIS		X	X			
604338	PHILADELPHIA			5/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604339	PHILADELPHIA			5/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604339	PHILADELPHIA			5/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	MONITORING	UNKNOWN		o/PaGWIS		X	X			
604340	PHILADELPHIA			6/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	MONITORING	UNKNOWN		o/PaGWIS		X	X			
604340	PHILADELPHIA			6/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604341	PHILADELPHIA			6/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604341	PHILADELPHIA			6/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	MONITORING	UNKNOWN		o/PaGWIS		X	X			
604342	PHILADELPHIA			7/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	MONITORING	UNKNOWN		o/PaGWIS		X	X			
604342	PHILADELPHIA			7/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604343	PHILADELPHIA			7/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604343	PHILADELPHIA			7/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	MONITORING	UNKNOWN		o/PaGWIS		X	X			
604344	PHILADELPHIA			7/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	MONITORING	UNKNOWN		o/PaGWIS		X	X			
604344	PHILADELPHIA			7/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604345	PHILADELPHIA			7/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	MONITORING	UNKNOWN		o/PaGWIS		X	X			
604345	PHILADELPHIA			7/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604346	PHILADELPHIA			7/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	MONITORING	UNKNOWN		o/PaGWIS		X	X			
604346	PHILADELPHIA			7/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604347	PHILADELPHIA			4/2/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	MONITORING	OTHER		o/PaGWIS		X	X			
604347	PHILADELPHIA			4/2/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604348	PHILADELPHIA			9/13/1994	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Amoco Oil	MONITORING	OTHER		o/PaGWIS		X	X			
604348	PHILADELPHIA			9/13/1994	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604349	PHILADELPHIA			4/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	MONITORING	UNKNOWN		o/PaGWIS		X	X			
604349	PHILADELPHIA			4/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604350	PHILADELPHIA			4/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	MONITORING	UNKNOWN		o/PaGWIS		X	X			
604350	PHILADELPHIA			4/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604351	PHILADELPHIA			4/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	MONITORING	UNKNOWN		o/PaGWIS		X	X			
604351	PHILADELPHIA			4/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604352	PHILADELPHIA			8/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	MONITORING	UNKNOWN		o/PaGWIS		X	X			
604352	PHILADELPHIA			8/1/1988	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604353	PHILADELPHIA			5/23/1991	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604354	PHILADELPHIA			1/9/2002	EW WEL	0	0	AMERIDRILL INC.	Amoco Oil	MONITORING	OTHER		o/PaGWIS		X	X			
604354	PHILADELPHIA			1/9/2002	EW WEL	0	0	AMERIDRILL INC.	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604355	PHILADELPHIA			6/9/1993	EW WEL	0	0	GEOMATRIX DRILLING INC.	Amtrak	MONITORING	OTHER		o/PaGWIS		X				
604355	PHILADELPHIA			6/9/1993	EW WEL	0	0	GEOMATRIX DRILLING INC.	Amtrak	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604356	PHILADELPHIA			6/10/1993	EW WEL	0	0	GEOMATRIX DRILLING INC.	Amtrak	MONITORING	OTHER		o/PaGWIS		X				
604356	PHILADELPHIA			6/10/1993	EW WEL	0	0	GEOMATRIX DRILLING INC.	Amtrak	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604357	PHILADELPHIA			6/10/1993	EW WEL	0	0	GEOMATRIX DRILLING INC.	Amtrak	MONITORING	OTHER		o/PaGWIS		X				
604357	PHILADELPHIA			6/10/1993	EW WEL	0	0	GEOMATRIX DRILLING INC.	Amtrak	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604358	PHILADELPHIA			6/21/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Arco	MONITORING	OTHER		o/PaGWIS		X	X			
604358	PHILADELPHIA			6/21/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Arco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604359	PHILADELPHIA			6/21/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Arco	MONITORING	OTHER		o/PaGWIS		X	X			
604359	PHILADELPHIA			6/21/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Arco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604360	PHILADELPHIA			6/21/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Arco	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604360	PHILADELPHIA			6/21/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Arco	MONITORING	OTHER		o/PaGWIS		X	X			
604361	PHILADELPHIA			6/21/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Arco	MONITORING	OTHER		o/PaGWIS		X	X			
604361	PHILADELPHIA			6/21/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Arco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604362	PHILADELPHIA			6/21/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Arco	MONITORING	OTHER		o/PaGWIS		X	X			
604362	PHILADELPHIA			6/21/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Arco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
604363	PHILADELPHIA			7/7/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Amco	MONITORING	OTHER		o/PaGWIS		X				
604363	PHILADELPHIA			7/7/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Amco	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604364	PHILADELPHIA			8/12/2002	EW WEL	0	0	TALON DRILLING COMPANY	ASIG	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604364	PHILADELPHIA			8/12/2002	EW WEL	0	0	TALON DRILLING COMPANY	ASIG	MONITORING	OTHER		o/PaGWIS		X				
604365	PHILADELPHIA			11/1/1994	EW WEL	0	0	CS GARBER & SONS INC	Atlantic	UNKNOWN	UNKNOWN		o/PaGWIS			X			
604365	PHILADELPHIA			11/1/1994	EW WEL	0	0	CS GARBER & SONS INC	Atlantic	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604366	PHILADELPHIA			11/1/1994	EW WEL	0	0	CS GARBER & SONS INC	Atlantic	UNKNOWN	UNKNOWN		o/PaGWIS				X		

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information																Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark		Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
604366	PHILADELPHIA			11/1/1994	EW WEL	0	0	C S GARBER & SONS INC	Atlantic	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604367	PHILADELPHIA			11/1/1994	EW WEL	0	0	C S GARBER & SONS INC	Atlantic	UNKNOWN	UNKNOWN		o/PaGWIS				X		
604367	PHILADELPHIA			11/1/1994	EW WEL	0	0	C S GARBER & SONS INC	Atlantic	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604368	PHILADELPHIA			11/1/1994	EW WEL	0	0	C S GARBER & SONS INC	Atlantic	UNKNOWN	UNKNOWN		o/PaGWIS				X		
604368	PHILADELPHIA			11/1/1994	EW WEL	0	0	C S GARBER & SONS INC	Atlantic	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604369	PHILADELPHIA			11/1/1994	EW WEL	0	0	C S GARBER & SONS INC	Atlantic	UNKNOWN	UNKNOWN		o/PaGWIS				X		
604369	PHILADELPHIA			11/1/1994	EW WEL	0	0	C S GARBER & SONS INC	Atlantic	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604370	PHILADELPHIA			5/17/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Atlantic	MONITORING	OTHER		o/PaGWIS		X		X		
604370	PHILADELPHIA			5/17/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Atlantic	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604371	PHILADELPHIA			5/17/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Atlantic	MONITORING	OTHER		o/PaGWIS		X		X		
604371	PHILADELPHIA			5/17/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Atlantic	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604372	PHILADELPHIA			5/17/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Atlantic	MONITORING	OTHER		o/PaGWIS		X		X		
604372	PHILADELPHIA			5/17/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Atlantic	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604373	PHILADELPHIA			5/17/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Atlantic	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604374	PHILADELPHIA			6/1/1987	EW WEL	0	0	AC SCHULTES INC	Atlantic	MONITORING	STOCK		o/PaGWIS		X		X		
604374	PHILADELPHIA			6/1/1987	EW WEL	0	0	AC SCHULTES INC	Atlantic	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604375	PHILADELPHIA			6/1/1987	EW WEL	0	0	AC SCHULTES INC	Atlantic	MONITORING	STOCK		o/PaGWIS		X		X		
604375	PHILADELPHIA			6/1/1987	EW WEL	0	0	AC SCHULTES INC	Atlantic	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604376	PHILADELPHIA			6/1/1987	EW WEL	0	0	AC SCHULTES INC	Atlantic	MONITORING	STOCK		o/PaGWIS		X		X		
604376	PHILADELPHIA			6/1/1987	EW WEL	0	0	AC SCHULTES INC	Atlantic	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604377	PHILADELPHIA			10/1/1990	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Atlantic	MONITORING	UNKNOWN		o/PaGWIS		X		X		
604377	PHILADELPHIA			10/1/1990	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Atlantic	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604378	PHILADELPHIA			6/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Atlantic	MONITORING	OTHER		o/PaGWIS		X		X		
604378	PHILADELPHIA			6/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Atlantic	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604379	PHILADELPHIA			6/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Atlantic	MONITORING	OTHER		o/PaGWIS		X		X		
604379	PHILADELPHIA			6/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Atlantic	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604380	PHILADELPHIA			6/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Atlantic	MONITORING	OTHER		o/PaGWIS		X		X		
604380	PHILADELPHIA			6/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Atlantic	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604381	PHILADELPHIA			5/10/2005	EW WEL	0	0	AMERIDRILL INC.	Avis Budget	MONITORING	OTHER		o/PaGWIS		X				
604381	PHILADELPHIA			5/10/2005	EW WEL	0	0	AMERIDRILL INC.	Avis Budget	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604382	PHILADELPHIA			5/10/2005	EW WEL	0	0	AMERIDRILL INC.	Avis Budget	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604382	PHILADELPHIA			5/10/2005	EW WEL	0	0	AMERIDRILL INC.	Avis Budget	MONITORING	OTHER		o/PaGWIS		X				
604383	PHILADELPHIA			5/10/2005	EW WEL	0	0	AMERIDRILL INC.	Avis Budget	MONITORING	OTHER		o/PaGWIS		X				
604383	PHILADELPHIA			5/10/2005	EW WEL	0	0	AMERIDRILL INC.	Avis Budget	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604384	PHILADELPHIA			5/10/2005	EW WEL	0	0	AMERIDRILL INC.	Avis Budget	MONITORING	OTHER		o/PaGWIS		X				
604384	PHILADELPHIA			5/10/2005	EW WEL	0	0	AMERIDRILL INC.	Avis Budget	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604385	PHILADELPHIA			5/10/2005	EW WEL	0	0	AMERIDRILL INC.	Avis Budget	MONITORING	OTHER		o/PaGWIS		X				
604385	PHILADELPHIA			5/10/2005	EW WEL	0	0	AMERIDRILL INC.	Avis Budget	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604386	PHILADELPHIA			5/11/2005	EW WEL	0	0	AMERIDRILL INC.	Avis Budget	MONITORING	OTHER		o/PaGWIS		X				
604386	PHILADELPHIA			5/11/2005	EW WEL	0	0	AMERIDRILL INC.	Avis Budget	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604387	PHILADELPHIA			5/11/2005	EW WEL	0	0	AMERIDRILL INC.	Avis Budget	MONITORING	OTHER		o/PaGWIS		X				
604387	PHILADELPHIA			5/11/2005	EW WEL	0	0	AMERIDRILL INC.	Avis Budget	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604388	PHILADELPHIA			5/11/2005	EW WEL	0	0	AMERIDRILL INC.	Avis Budget	UNKNOWN	UNKNOWN		o/PaGWIS					X	
604388	PHILADELPHIA			5/11/2005	EW WEL	0	0	AMERIDRILL INC.	Avis Budget	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604389	PHILADELPHIA			5/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X		X		
604389	PHILADELPHIA			5/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604390	PHILADELPHIA			5/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X		X		
604390	PHILADELPHIA			5/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604391	PHILADELPHIA			5/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X		X		
604391	PHILADELPHIA			5/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604392	PHILADELPHIA			5/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X		X		
604392	PHILADELPHIA			5/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604393	PHILADELPHIA			12/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X		X		
604393	PHILADELPHIA			12/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604394	PHILADELPHIA			12/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X		X		
604394	PHILADELPHIA			12/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604395	PHILADELPHIA			12/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X		X		
604395	PHILADELPHIA			12/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604396	PHILADELPHIA			12/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X		X		
604396	PHILADELPHIA			12/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604397	PHILADELPHIA			8/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X		X		
604397	PHILADELPHIA			8/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604398	PHILADELPHIA			8/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X		X		
604398	PHILADELPHIA			8/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604399	PHILADELPHIA			2/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604399	PHILADELPHIA			2/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	MONITORING	UNKNOWN		o/PaGWIS		X				
604400	PHILADELPHIA			2/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	MONITORING	UNKNOWN		o/PaGWIS		X				
604400	PHILADELPHIA			2/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604401	PHILADELPHIA			2/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	MONITORING	UNKNOWN		o/PaGWIS		X				
604401	PHILADELPHIA			2/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604402	PHILADELPHIA			2/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	MONITORING	UNKNOWN		o/PaGWIS		X				
604402	PHILADELPHIA			2/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604403	PHILADELPHIA			2/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	MONITORING	UNKNOWN		o/PaGWIS		X				



Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information																Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark		Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
604403	PHILADELPHIA			2/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604404	PHILADELPHIA			2/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	MONITORING	UNKNOWN		o/PaGWIS		X				
604404	PHILADELPHIA			2/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604405	PHILADELPHIA			2/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	MONITORING	OTHER		o/PaGWIS		X				
604405	PHILADELPHIA			2/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604406	PHILADELPHIA			4/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	MONITORING	UNKNOWN		o/PaGWIS		X				
604406	PHILADELPHIA			4/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604407	PHILADELPHIA			4/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	MONITORING	UNKNOWN		o/PaGWIS		X				
604407	PHILADELPHIA			4/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604408	PHILADELPHIA			4/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	MONITORING	UNKNOWN		o/PaGWIS		X				
604408	PHILADELPHIA			4/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604409	PHILADELPHIA			4/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	MONITORING	UNKNOWN		o/PaGWIS		X				
604409	PHILADELPHIA			4/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604410	PHILADELPHIA			4/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	MONITORING	UNKNOWN		o/PaGWIS		X				
604410	PHILADELPHIA			4/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Bosco's	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604411	PHILADELPHIA			3/27/2003	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Boulevard Plaza	MONITORING	OTHER		o/PaGWIS		X				
604411	PHILADELPHIA			3/27/2003	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Boulevard Plaza	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604412	PHILADELPHIA			3/27/2003	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Boulevard Plaza	MONITORING	OTHER		o/PaGWIS		X				
604412	PHILADELPHIA			3/27/2003	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Boulevard Plaza	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604413	PHILADELPHIA			3/27/2003	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Boulevard Plaza	MONITORING	OTHER		o/PaGWIS		X				
604413	PHILADELPHIA			3/27/2003	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Boulevard Plaza	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604414	PHILADELPHIA			3/27/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	BP	MONITORING	OTHER		o/PaGWIS		X	X			
604414	PHILADELPHIA			3/27/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	BP	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604415	PHILADELPHIA			7/1/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	BP	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604415	PHILADELPHIA			7/1/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	BP	MONITORING	OTHER		o/PaGWIS		X	X			
604416	PHILADELPHIA			8/6/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	City of Philadelphia	MONITORING	OTHER		o/PaGWIS		X				
604416	PHILADELPHIA			8/6/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604418	PHILADELPHIA			6/26/1992	EW WEL	0	0	TABASCO DRILLING CORPORATION	BP	MONITORING	OTHER		o/PaGWIS		X	X			
604418	PHILADELPHIA			6/26/1992	EW WEL	0	0	TABASCO DRILLING CORPORATION	BP	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604419	PHILADELPHIA			6/26/1992	EW WEL	0	0	TABASCO DRILLING CORPORATION	BP	MONITORING	OTHER		o/PaGWIS		X	X			
604419	PHILADELPHIA			6/26/1992	EW WEL	0	0	TABASCO DRILLING CORPORATION	BP	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604420	PHILADELPHIA			6/30/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	BP	MONITORING	OTHER		o/PaGWIS		X	X			
604420	PHILADELPHIA			6/30/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	BP	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604421	PHILADELPHIA			6/30/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	BP	MONITORING	OTHER		o/PaGWIS		X	X			
604421	PHILADELPHIA			6/30/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	BP	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604422	PHILADELPHIA			6/30/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	BP	MONITORING	OTHER		o/PaGWIS		X	X			
604422	PHILADELPHIA			6/30/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	BP	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604423	PHILADELPHIA			#####	EW WEL	0	0	TALON DRILLING COMPANY	Broad and Washington Corp	MONITORING	OTHER		o/PaGWIS		X				
604423	PHILADELPHIA			#####	EW WEL	0	0	TALON DRILLING COMPANY	Broad and Washington Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604424	PHILADELPHIA			#####	EW WEL	0	0	TALON DRILLING COMPANY	Broad and Washington Corp	MONITORING	OTHER		o/PaGWIS		X				
604424	PHILADELPHIA			#####	EW WEL	0	0	TALON DRILLING COMPANY	Broad and Washington Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604425	PHILADELPHIA			#####	EW WEL	0	0	TALON DRILLING COMPANY	Broad and Washington Corp	MONITORING	OTHER		o/PaGWIS		X				
604425	PHILADELPHIA			#####	EW WEL	0	0	TALON DRILLING COMPANY	Broad and Washington Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604426	PHILADELPHIA			#####	EW WEL	0	0	TALON DRILLING COMPANY	Broad and Washington Corp	MONITORING	OTHER		o/PaGWIS		X				
604426	PHILADELPHIA			#####	EW WEL	0	0	TALON DRILLING COMPANY	Broad and Washington Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604427	PHILADELPHIA			2/6/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Budd Facilities	MONITORING	OTHER		o/PaGWIS		X				
604427	PHILADELPHIA			2/6/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Budd Facilities	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604428	PHILADELPHIA			9/25/1991	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	Budget Car Rental	MONITORING	OTHER		o/PaGWIS		X				
604428	PHILADELPHIA			9/25/1991	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	Budget Car Rental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604429	PHILADELPHIA			#####	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	Budget Car Rental	MONITORING	OTHER		o/PaGWIS		X				
604429	PHILADELPHIA			#####	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	Budget Car Rental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604430	PHILADELPHIA			#####	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	Budget Car Rental	MONITORING	OTHER		o/PaGWIS		X				
604430	PHILADELPHIA			#####	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	Budget Car Rental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604431	PHILADELPHIA			#####	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	Budget Car Rental	MONITORING	OTHER		o/PaGWIS		X				
604431	PHILADELPHIA			#####	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	Budget Car Rental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604432	PHILADELPHIA			#####	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	Budget Car Rental	MONITORING	OTHER		o/PaGWIS		X				
604432	PHILADELPHIA			#####	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	Budget Car Rental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604433	PHILADELPHIA			8/12/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604433	PHILADELPHIA			8/12/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	MONITORING	OTHER		o/PaGWIS		X				
604434	PHILADELPHIA			8/13/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	MONITORING	OTHER		o/PaGWIS		X				
604434	PHILADELPHIA			8/13/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604435	PHILADELPHIA			8/12/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604435	PHILADELPHIA			8/12/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	MONITORING	OTHER		o/PaGWIS		X				
604436	PHILADELPHIA			8/13/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604436	PHILADELPHIA			8/13/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	MONITORING	OTHER		o/PaGWIS		X				
604437	PHILADELPHIA			8/13/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	MONITORING	OTHER		o/PaGWIS		X				
604437	PHILADELPHIA			8/13/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604438	PHILADELPHIA			8/13/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604438	PHILADELPHIA			8/13/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	MONITORING	OTHER		o/PaGWIS		X				
604439	PHILADELPHIA			8/13/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	MONITORING	OTHER		o/PaGWIS		X				
604439	PHILADELPHIA			8/13/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604440	PHILADELPHIA			8/14/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	MONITORING	OTHER		o/PaGWIS		X				
604440	PHILADELPHIA			8/14/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604441	PHILADELPHIA			8/14/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information																Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark		Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
604441	PHILADELPHIA			8/14/2002	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	MONITORING	OTHER		o/PaGWIS			X			
604442	PHILADELPHIA			7/23/1991	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	Budget Car Rental	MONITORING	OTHER		o/PaGWIS			X			
604442	PHILADELPHIA			7/23/1991	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	Budget Car Rental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604443	PHILADELPHIA			4/1/2005	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	MONITORING	OTHER		o/PaGWIS			X			
604443	PHILADELPHIA			4/1/2005	EW WEL	0	0	TALON DRILLING COMPANY	Budget Car Rental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604444	PHILADELPHIA			1/25/2006	EW WEL	0	0	AMERIDRILL INC.	Budget Car Rental	MONITORING	UNKNOWN		o/PaGWIS			X			
604444	PHILADELPHIA			1/25/2006	EW WEL	0	0	AMERIDRILL INC.	Budget Car Rental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604445	PHILADELPHIA			6/21/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Dry Canada	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604445	PHILADELPHIA			6/21/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Dry Canada	MONITORING	OTHER		o/PaGWIS			X			
604446	PHILADELPHIA			6/21/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Dry Canada	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604446	PHILADELPHIA			6/21/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Dry Canada	MONITORING	OTHER		o/PaGWIS			X			
604447	PHILADELPHIA			6/21/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Dry Canada	MONITORING	OTHER		o/PaGWIS			X			
604447	PHILADELPHIA			6/21/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Dry Canada	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604448	PHILADELPHIA			#####	EW WEL	0	0	SALOMONE BROS. INC.	Cardone Industries	MONITORING	UNKNOWN		o/PaGWIS			X			
604448	PHILADELPHIA			#####	EW WEL	0	0	SALOMONE BROS. INC.	Cardone Industries	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604449	PHILADELPHIA			6/26/1996	EW WEL	0	0	NFE INC	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604449	PHILADELPHIA			6/26/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604450	PHILADELPHIA			6/27/1996	EW WEL	0	0	NFE INC	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604450	PHILADELPHIA			6/27/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604451	PHILADELPHIA			6/28/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604451	PHILADELPHIA			6/28/1996	EW WEL	0	0	NFE INC	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604452	PHILADELPHIA			6/26/1996	EW WEL	0	0	NFE INC	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604452	PHILADELPHIA			6/26/1996	EW WEL	0	0	NFE INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604453	PHILADELPHIA			10/3/2001	EW WEL	0	0	TABASCO DRILLING CORPORATION	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604453	PHILADELPHIA			10/3/2001	EW WEL	0	0	TABASCO DRILLING CORPORATION	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604454	PHILADELPHIA			10/3/2001	EW WEL	0	0	TABASCO DRILLING CORPORATION	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604454	PHILADELPHIA			10/3/2001	EW WEL	0	0	TABASCO DRILLING CORPORATION	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604455	PHILADELPHIA			10/3/2001	EW WEL	0	0	TABASCO DRILLING CORPORATION	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604455	PHILADELPHIA			10/3/2001	EW WEL	0	0	TABASCO DRILLING CORPORATION	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604456	PHILADELPHIA			10/4/2001	EW WEL	0	0	TABASCO DRILLING CORPORATION	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604456	PHILADELPHIA			10/4/2001	EW WEL	0	0	TABASCO DRILLING CORPORATION	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604457	PHILADELPHIA			10/4/2001	EW WEL	0	0	TABASCO DRILLING CORPORATION	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604457	PHILADELPHIA			10/4/2001	EW WEL	0	0	TABASCO DRILLING CORPORATION	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604458	PHILADELPHIA			10/4/2001	EW WEL	0	0	TABASCO DRILLING CORPORATION	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604458	PHILADELPHIA			10/4/2001	EW WEL	0	0	TABASCO DRILLING CORPORATION	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604459	PHILADELPHIA			11/6/1992	EW WEL	0	0	TABASCO DRILLING CORPORATION	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604459	PHILADELPHIA			11/6/1992	EW WEL	0	0	TABASCO DRILLING CORPORATION	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604460	PHILADELPHIA			11/6/1992	EW WEL	0	0	TABASCO DRILLING CORPORATION	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604460	PHILADELPHIA			11/6/1992	EW WEL	0	0	TABASCO DRILLING CORPORATION	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604461	PHILADELPHIA			7/24/1995	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604461	PHILADELPHIA			7/24/1995	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604462	PHILADELPHIA			7/24/1995	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604462	PHILADELPHIA			7/24/1995	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604463	PHILADELPHIA			2/19/1997	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604463	PHILADELPHIA			2/19/1997	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604464	PHILADELPHIA			2/19/1997	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604464	PHILADELPHIA			2/19/1997	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604465	PHILADELPHIA			4/26/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604465	PHILADELPHIA			4/26/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604466	PHILADELPHIA			4/26/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604466	PHILADELPHIA			4/26/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604467	PHILADELPHIA			2/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Kosempel Mfg Co	MONITORING	UNKNOWN		o/PaGWIS			X			
604467	PHILADELPHIA			2/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Kosempel Mfg Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604468	PHILADELPHIA			2/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Kosempel Mfg Co	MONITORING	UNKNOWN		o/PaGWIS			X			
604468	PHILADELPHIA			2/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Kosempel Mfg Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604469	PHILADELPHIA			1/20/2000	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604469	PHILADELPHIA			1/20/2000	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604470	PHILADELPHIA			1/21/2000	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604470	PHILADELPHIA			1/21/2000	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604471	PHILADELPHIA			1/20/2000	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604471	PHILADELPHIA			1/20/2000	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604472	PHILADELPHIA			1/21/2000	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604472	PHILADELPHIA			1/21/2000	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604473	PHILADELPHIA			1/24/2000	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia	MONITORING	OTHER		o/PaGWIS			X			
604473	PHILADELPHIA			1/24/2000	EW WEL	0	0	EAST COAST DRILLING INC	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604474	PHILADELPHIA			5/3/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Closed Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
604474	PHILADELPHIA			5/3/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Closed Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604475	PHILADELPHIA			5/3/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Closed Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
604475	PHILADELPHIA			5/3/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Closed Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604476	PHILADELPHIA			5/3/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Closed Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
604476	PHILADELPHIA			5/3/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Closed Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
604478	PHILADELPHIA			4/3/1997	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	Phila Coll of Pharm and Sci	MONITORING	OTHER		o/PaGWIS			X			
604478	PHILADELPHIA			4/3/1997	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	Phila Coll of Pharm and Sci	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
604480	PHILADELPHIA			6/1/1991	EW WEL	0	0	SUMMIT DRILLING CO INC	Crown Cork and Seal	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	



Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
604480	PHILADELPHIA			6/1/1991	EW WEL	0	0	SUMMIT DRILLING CO INC	Crown Cork and Seal	MONITORING	INDUSTRIAL		o/PaGWIS		X			
604481	PHILADELPHIA			6/1/1991	EW WEL	0	0	SUMMIT DRILLING CO INC	Crown Cork and Seal	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604481	PHILADELPHIA			6/1/1991	EW WEL	0	0	SUMMIT DRILLING CO INC	Crown Cork and Seal	MONITORING	INDUSTRIAL		o/PaGWIS		X			
604482	PHILADELPHIA			6/1/1991	EW WEL	0	0	SUMMIT DRILLING CO INC	Crown Cork and Seal	MONITORING	INDUSTRIAL		o/PaGWIS		X			
604482	PHILADELPHIA			6/1/1991	EW WEL	0	0	SUMMIT DRILLING CO INC	Crown Cork and Seal	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604483	PHILADELPHIA			3/2/2000	EW WEL	0	0	AMERIDRILL INC	Cumberland Farms	MONITORING	UNKNOWN		o/PaGWIS		X			
604483	PHILADELPHIA			3/2/2000	EW WEL	0	0	AMERIDRILL INC	Cumberland Farms	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604484	PHILADELPHIA			1/27/1995	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Cumberland Farms	MONITORING	OTHER		o/PaGWIS		X			
604484	PHILADELPHIA			1/27/1995	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Cumberland Farms	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604485	PHILADELPHIA			1/27/1995	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Cumberland Farms	MONITORING	OTHER		o/PaGWIS		X			
604485	PHILADELPHIA			1/27/1995	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Cumberland Farms	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604486	PHILADELPHIA			1/27/1995	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Cumberland Farms	MONITORING	OTHER		o/PaGWIS		X			
604486	PHILADELPHIA			1/27/1995	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Cumberland Farms	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604488	PHILADELPHIA			1/27/1995	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Cumberland Farms	MONITORING	OTHER		o/PaGWIS		X			
604488	PHILADELPHIA			1/27/1995	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Cumberland Farms	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604489	PHILADELPHIA			1/15/2003	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	CVS	MONITORING	OTHER		o/PaGWIS		X			
604489	PHILADELPHIA			1/15/2003	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	CVS	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604491	PHILADELPHIA			1/15/2003	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	CVS	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604491	PHILADELPHIA			1/15/2003	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	CVS	MONITORING	OTHER		o/PaGWIS		X			
604493	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	CVS	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604493	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	CVS	MONITORING	OTHER		o/PaGWIS		X			
604495	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	CVS	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604495	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	CVS	MONITORING	OTHER		o/PaGWIS		X			
604496	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	CVS	MONITORING	OTHER		o/PaGWIS		X			
604496	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	CVS	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604497	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	CVS	MONITORING	OTHER		o/PaGWIS		X			
604497	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	CVS	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604498	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	CVS	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604498	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	CVS	MONITORING	INDUSTRIAL		o/PaGWIS		X			
604499	PHILADELPHIA			9/13/1988	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	Dames and Moore	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604499	PHILADELPHIA			9/13/1988	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	Dames and Moore	MONITORING	UNKNOWN		o/PaGWIS		X			
604501	PHILADELPHIA			9/13/1988	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	Dames and Moore	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604501	PHILADELPHIA			9/13/1988	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	Dames and Moore	MONITORING	UNKNOWN		o/PaGWIS		X			
604502	PHILADELPHIA			9/13/1988	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	Dames and Moore	MONITORING	OTHER		o/PaGWIS		X			
604502	PHILADELPHIA			9/13/1988	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	Dames and Moore	MONITORING	UNKNOWN		o/PaGWIS		X			
604502	PHILADELPHIA			9/13/1988	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	Dames and Moore	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604503	PHILADELPHIA			9/13/1988	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	Dames and Moore	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604503	PHILADELPHIA			9/13/1988	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	Dames and Moore	MONITORING	UNKNOWN		o/PaGWIS		X			
604504	PHILADELPHIA			3/13/1989	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	Dames and Moore	MONITORING	OTHER		o/PaGWIS		X			
604504	PHILADELPHIA			3/13/1989	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	Dames and Moore	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604505	PHILADELPHIA			4/15/1989	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	Dames and Moore	MONITORING	UNKNOWN		o/PaGWIS		X			
604505	PHILADELPHIA			4/15/1989	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	Dames and Moore	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604506	PHILADELPHIA			4/15/1989	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	Dames and Moore	MONITORING	UNKNOWN		o/PaGWIS		X			
604506	PHILADELPHIA			4/15/1989	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	Dames and Moore	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604507	PHILADELPHIA			4/15/1989	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	Dames and Moore	MONITORING	UNKNOWN		o/PaGWIS		X			
604507	PHILADELPHIA			4/15/1989	EW WEL	0	0	BUCKS COUNTY WELL DRILLING IN	Dames and Moore	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604508	PHILADELPHIA			2/14/1992	EW WEL	0	0	A LEXANDER MACPHEE-CVM IND	David Michael Co	MONITORING	OTHER		o/PaGWIS		X			
604508	PHILADELPHIA			2/14/1992	EW WEL	0	0	A LEXANDER MACPHEE-CVM IND	David Michael Co	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604509	PHILADELPHIA			2/14/1992	EW WEL	0	0	A LEXANDER MACPHEE-CVM IND	David Michael Co	MONITORING	OTHER		o/PaGWIS		X			
604509	PHILADELPHIA			2/14/1992	EW WEL	0	0	A LEXANDER MACPHEE-CVM IND	David Michael Co	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604510	PHILADELPHIA			2/14/1992	EW WEL	0	0	A LEXANDER MACPHEE-CVM IND	David Michael Co	MONITORING	OTHER		o/PaGWIS		X			
604510	PHILADELPHIA			2/14/1992	EW WEL	0	0	A LEXANDER MACPHEE-CVM IND	David Michael Co	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604511	PHILADELPHIA			2/14/1992	EW WEL	0	0	A LEXANDER MACPHEE-CVM IND	David Michael Co	MONITORING	OTHER		o/PaGWIS		X			
604511	PHILADELPHIA			2/14/1992	EW WEL	0	0	A LEXANDER MACPHEE-CVM IND	David Michael Co	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604512	PHILADELPHIA			5/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM IND	Demato Bird Control	MONITORING	OTHER		o/PaGWIS		X			
604512	PHILADELPHIA			5/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM IND	Demato Bird Control	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604513	PHILADELPHIA			5/4/2006	EW WEL	0	0	AMERIDRILL INC	DePaul	MONITORING	UNKNOWN		o/PaGWIS		X			
604513	PHILADELPHIA			5/4/2006	EW WEL	0	0	AMERIDRILL INC	DePaul	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604514	PHILADELPHIA			5/4/2006	EW WEL	0	0	AMERIDRILL INC	DePaul	MONITORING	UNKNOWN		o/PaGWIS		X			
604514	PHILADELPHIA			5/4/2006	EW WEL	0	0	AMERIDRILL INC	DePaul	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604515	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE-CVM IND	Diamond Tool Inc	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604515	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE-CVM IND	Diamond Tool Inc	MONITORING	OTHER		o/PaGWIS		X			
604516	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE-CVM IND	Diamond Tool Inc	TEST	OTHER		o/PaGWIS		X			
604516	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE-CVM IND	Diamond Tool Inc	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604517	PHILADELPHIA			1/8/2002	EW WEL	0	0	A LEXANDER MACPHEE-CVM IND	Diamond Tool Inc	TEST	OTHER		o/PaGWIS		X			
604517	PHILADELPHIA			1/8/2002	EW WEL	0	0	A LEXANDER MACPHEE-CVM IND	Diamond Tool Inc	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604518	PHILADELPHIA			11/3/1992	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Durkin	MONITORING	INDUSTRIAL		o/PaGWIS		X			
604518	PHILADELPHIA			11/3/1992	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Durkin	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604519	PHILADELPHIA			11/4/1992	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Durkin	MONITORING	INDUSTRIAL		o/PaGWIS		X			
604519	PHILADELPHIA			11/4/1992	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Durkin	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604520	PHILADELPHIA			11/5/1992	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Durkin	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604520	PHILADELPHIA			11/5/1992	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Durkin	MONITORING	NTSTITUTIONAL		o/PaGWIS		X			
604521	PHILADELPHIA			11/6/1992	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Durkin	MONITORING	NTSTITUTIONAL		o/PaGWIS		X			
604521	PHILADELPHIA			11/6/1992	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Durkin	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
604522	PHILADELPHIA			11/6/1992	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Durkin	MONITORING	INDUSTRIAL		o/PaGWIS		X			
604522	PHILADELPHIA			11/6/1992	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Durkin	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604523	PHILADELPHIA			3/9/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Target Land Recycling	MONITORING	OTHER		o/PaGWIS		X			
604523	PHILADELPHIA			3/9/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Target Land Recycling	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604524	PHILADELPHIA			4/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Eastwick Redev. Auth.	MONITORING	OTHER		o/PaGWIS		X			
604524	PHILADELPHIA			4/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Eastwick Redev. Auth.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604525	PHILADELPHIA			4/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Eastwick Redev. Auth.	MONITORING	OTHER		o/PaGWIS		X			
604525	PHILADELPHIA			4/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Eastwick Redev. Auth.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604526	PHILADELPHIA			4/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Eastwick Redev. Auth.	MONITORING	OTHER		o/PaGWIS		X			
604526	PHILADELPHIA			4/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Eastwick Redev. Auth.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604527	PHILADELPHIA			4/1/1991	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Einstien Medical Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604527	PHILADELPHIA			4/1/1991	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Einstien Medical Center	MONITORING	UNKNOWN		o/PaGWIS		X			
604528	PHILADELPHIA			4/1/1991	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Einstien Medical Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604528	PHILADELPHIA			4/1/1991	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Einstien Medical Center	MONITORING	UNKNOWN		o/PaGWIS		X			
604529	PHILADELPHIA			8/30/1990	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Einstien Medical Center	MONITORING	OTHER		o/PaGWIS		X			
604529	PHILADELPHIA			8/30/1990	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Einstien Medical Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604530	PHILADELPHIA			4/1/1991	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Einstien Medical Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604530	PHILADELPHIA			4/1/1991	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Einstien Medical Center	MONITORING	UNKNOWN		o/PaGWIS		X			
604531	PHILADELPHIA			4/1/1991	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Einstien Medical Center	MONITORING	UNKNOWN		o/PaGWIS		X			
604531	PHILADELPHIA			4/1/1991	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Einstien Medical Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604532	PHILADELPHIA			4/1/1991	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Einstien Medical Center	MONITORING	UNKNOWN		o/PaGWIS		X			
604532	PHILADELPHIA			4/1/1991	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Einstien Medical Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604533	PHILADELPHIA			4/1/1991	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Einstien Medical Center	MONITORING	UNKNOWN		o/PaGWIS		X			
604533	PHILADELPHIA			4/1/1991	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Einstien Medical Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604534	PHILADELPHIA			4/1/1991	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Einstien Medical Center	MONITORING	UNKNOWN		o/PaGWIS		X			
604534	PHILADELPHIA			4/1/1991	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Einstien Medical Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604535	PHILADELPHIA			5/25/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Evans Transportation	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604535	PHILADELPHIA			5/25/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Evans Transportation	MONITORING	OTHER		o/PaGWIS		X			
604536	PHILADELPHIA			8/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Exxon	MONITORING	UNKNOWN		o/PaGWIS		X	X		
604536	PHILADELPHIA			8/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Exxon	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604537	PHILADELPHIA			8/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Exxon	MONITORING	UNKNOWN		o/PaGWIS		X	X		
604537	PHILADELPHIA			8/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Exxon	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
604538	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Exxon	MONITORING	UNKNOWN		o/PaGWIS		X	X		
604538	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Exxon	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604539	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Exxon	MONITORING	UNKNOWN		o/PaGWIS		X	X		
604539	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Exxon	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604540	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Exxon	MONITORING	UNKNOWN		o/PaGWIS		X	X		
604540	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Exxon	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604541	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Exxon	MONITORING	UNKNOWN		o/PaGWIS		X	X		
604541	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Exxon	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604542	PHILADELPHIA			#####	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Exxon	MONITORING	OTHER		o/PaGWIS		X	X		
604542	PHILADELPHIA			#####	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Exxon	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604543	PHILADELPHIA			1/10/1991	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon	MONITORING	OTHER		o/PaGWIS		X	X		
604543	PHILADELPHIA			1/10/1991	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604544	PHILADELPHIA			#####	EW WEL	0	0	Exxon	Exxon	MONITORING	OTHER		o/PaGWIS		X	X		
604544	PHILADELPHIA			#####	EW WEL	0	0	Exxon	Exxon	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604545	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon Company USA	MONITORING	UNKNOWN		o/PaGWIS		X	X		
604545	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon Company USA	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604545	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon Company USA	TEST	UNKNOWN		o/PaGWIS		X	X		
604546	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon Company USA	MONITORING	UNKNOWN		o/PaGWIS		X	X		
604546	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon Company USA	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604546	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon Company USA	TEST	UNKNOWN		o/PaGWIS		X	X		
604547	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon Company USA	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604547	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon Company USA	TEST	UNKNOWN		o/PaGWIS		X	X		
604548	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon Company USA	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604548	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon Company USA	TEST	UNKNOWN		o/PaGWIS		X	X		
604549	PHILADELPHIA			4/29/1997	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Exxon Service Station	MONITORING	OTHER		o/PaGWIS		X	X		
604549	PHILADELPHIA			4/29/1997	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Exxon Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604550	PHILADELPHIA			4/29/1997	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Exxon Service Station	MONITORING	OTHER		o/PaGWIS		X	X		
604550	PHILADELPHIA			4/29/1997	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Exxon Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604551	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station	MONITORING	OTHER		o/PaGWIS		X	X		
604551	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604552	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station	MONITORING	OTHER		o/PaGWIS		X	X		
604552	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604553	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station	MONITORING	OTHER		o/PaGWIS		X	X		
604553	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604554	PHILADELPHIA			10/9/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station (Closed)	MONITORING	OTHER		o/PaGWIS		X	X		
604554	PHILADELPHIA			10/9/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station (Closed)	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604555	PHILADELPHIA			10/9/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station (Closed)	MONITORING	OTHER		o/PaGWIS		X	X		
604555	PHILADELPHIA			10/9/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station (Closed)	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604556	PHILADELPHIA			10/9/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station (Closed)	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604556	PHILADELPHIA			10/9/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station (Closed)	MONITORING	OTHER		o/PaGWIS		X	X		
604557	PHILADELPHIA			2/9/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
604557	PHILADELPHIA			2/9/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station	MONITORING	OTHER		o/PaGWIS		X	X		

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
605222	PHILADELPHIA			2/9/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605222	PHILADELPHIA			2/9/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station	MONITORING	OTHER		o/PaGWIS		X	X		
605223	PHILADELPHIA			7/19/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station	MONITORING	OTHER		o/PaGWIS		X	X		
605223	PHILADELPHIA			7/19/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605224	PHILADELPHIA			7/19/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605224	PHILADELPHIA			7/19/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station	MONITORING	OTHER		o/PaGWIS		X	X		
605225	PHILADELPHIA			7/19/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station	MONITORING	OTHER		o/PaGWIS		X	X		
605225	PHILADELPHIA			7/19/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Exxon Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605226	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon USA	TEST	UNKNOWN		o/PaGWIS		X	X		
605226	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon USA	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605227	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon USA	TEST	UNKNOWN		o/PaGWIS		X	X		
605227	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon USA	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605228	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon USA	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605228	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon USA	TEST	UNKNOWN		o/PaGWIS		X	X		
605229	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon USA	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605229	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Exxon USA	TEST	OTHER		o/PaGWIS		X	X		
605230	PHILADELPHIA			8/1/2006	EW WEL	0	0	C S GARBER & SONS INC	EZ and Son Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605230	PHILADELPHIA			8/1/2006	EW WEL	0	0	C S GARBER & SONS INC	EZ and Son Service Station	MONITORING	UNKNOWN		o/PaGWIS		X			
605232	PHILADELPHIA			8/1/2006	EW WEL	0	0	C S GARBER & SONS INC	EZ and Son Service Station	MONITORING	UNKNOWN		o/PaGWIS		X			
605232	PHILADELPHIA			8/1/2006	EW WEL	0	0	C S GARBER & SONS INC	EZ and Son Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605233	PHILADELPHIA			8/1/2006	EW WEL	0	0	C S GARBER & SONS INC	EZ and Son Service Station	MONITORING	UNKNOWN		o/PaGWIS		X			
605233	PHILADELPHIA			8/1/2006	EW WEL	0	0	C S GARBER & SONS INC	EZ and Son Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605234	PHILADELPHIA			5/15/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Fire Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605234	PHILADELPHIA			5/15/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Fire Station	MONITORING	OTHER		o/PaGWIS		X			
605235	PHILADELPHIA			#####	EW WEL	0	0	TABASCO DRILLING CORPORATION	Fisher Engr and Const Corp	MONITORING	UNKNOWN		o/PaGWIS		X			
605235	PHILADELPHIA			#####	EW WEL	0	0	TABASCO DRILLING CORPORATION	Fisher Engr and Const Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605236	PHILADELPHIA			#####	EW WEL	0	0	TABASCO DRILLING CORPORATION	Fisher Engr and Const Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605236	PHILADELPHIA			#####	EW WEL	0	0	TABASCO DRILLING CORPORATION	Fisher Engr and Const Corp	MONITORING	UNKNOWN		o/PaGWIS		X			
605237	PHILADELPHIA			#####	EW WEL	0	0	TABASCO DRILLING CORPORATION	Fisher Engr and Const Corp	MONITORING	UNKNOWN		o/PaGWIS		X			
605237	PHILADELPHIA			#####	EW WEL	0	0	TABASCO DRILLING CORPORATION	Fisher Engr and Const Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605238	PHILADELPHIA			#####	EW WEL	0	0	TABASCO DRILLING CORPORATION	Fisher Engr and Const Corp	MONITORING	DOMESTIC		o/PaGWIS		X			
605238	PHILADELPHIA			#####	EW WEL	0	0	TABASCO DRILLING CORPORATION	Fisher Engr and Const Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605239	PHILADELPHIA			3/13/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Exxon	MONITORING	OTHER		o/PaGWIS		X	X		
605239	PHILADELPHIA			3/13/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Exxon	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605240	PHILADELPHIA			3/13/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Exxon	MONITORING	OTHER		o/PaGWIS		X	X		
605240	PHILADELPHIA			3/13/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Exxon	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605241	PHILADELPHIA			8/14/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Gas Station (Exxon)	MONITORING	OTHER		o/PaGWIS		X	X		
605241	PHILADELPHIA			8/14/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Gas Station (Exxon)	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605242	PHILADELPHIA			8/14/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Gas Station (Exxon)	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605242	PHILADELPHIA			8/14/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Gas Station (Exxon)	MONITORING	OTHER		o/PaGWIS		X	X		
605243	PHILADELPHIA			8/14/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Gas Station (Exxon)	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605243	PHILADELPHIA			8/14/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Gas Station (Exxon)	MONITORING	OTHER		o/PaGWIS		X	X		
605244	PHILADELPHIA			9/14/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Glasgow Site	MONITORING	OTHER		o/PaGWIS		X			
605244	PHILADELPHIA			9/14/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Glasgow Site	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605245	PHILADELPHIA			9/14/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Glasgow Site	MONITORING	OTHER		o/PaGWIS		X			
605245	PHILADELPHIA			9/14/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Glasgow Site	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605246	PHILADELPHIA			10/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Former Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605246	PHILADELPHIA			10/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Former Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605247	PHILADELPHIA			10/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Former Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605247	PHILADELPHIA			10/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Former Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605248	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Passyunk Homes	MONITORING	OTHER		o/PaGWIS		X			
605248	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Passyunk Homes	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605249	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Passyunk Homes	MONITORING	OTHER		o/PaGWIS		X			
605249	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Passyunk Homes	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605250	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Passyunk Homes	MONITORING	OTHER		o/PaGWIS		X			
605250	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Passyunk Homes	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605251	PHILADELPHIA			6/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Tank Field Vacant Lot	MONITORING	OTHER		o/PaGWIS		X			
605251	PHILADELPHIA			6/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Tank Field Vacant Lot	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605252	PHILADELPHIA			6/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Tank Field Vacant Lot	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605252	PHILADELPHIA			6/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Tank Field Lot NHP Sit	MONITORING	OTHER		o/PaGWIS		X			
605253	PHILADELPHIA			6/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Tank Field Lot NHP Sit	MONITORING	OTHER		o/PaGWIS		X			
605253	PHILADELPHIA			6/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Tank Field Lot NHP Sit	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605254	PHILADELPHIA			6/9/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Tank Field Lot NHP Sit	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605254	PHILADELPHIA			6/9/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Tank Field Lot NHP Sit	MONITORING	OTHER		o/PaGWIS		X			
605256	PHILADELPHIA			6/9/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Tank Field Vacant Lot	MONITORING	OTHER		o/PaGWIS		X			
605256	PHILADELPHIA			6/9/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Tank Field Vacant Lot	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605257	PHILADELPHIA			6/9/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Tank Field Vacant Lot	MONITORING	OTHER		o/PaGWIS		X			
605257	PHILADELPHIA			6/9/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Tank Field Vacant Lot	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605258	PHILADELPHIA			9/14/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Union Cleaners	MONITORING	OTHER		o/PaGWIS		X			
605258	PHILADELPHIA			9/14/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Former Union Cleaners	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605259	PHILADELPHIA			3/24/2005	EW WEL	0	0	TALON DRILLING COMPANY	Frankford Candy and Choc Co	MONITORING	OTHER		o/PaGWIS		X			
605259	PHILADELPHIA			3/24/2005	EW WEL	0	0	TALON DRILLING COMPANY	Frankford Candy and Choc Co	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605260	PHILADELPHIA			8/9/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Frankford Creek Partners	MONITORING	OTHER		o/PaGWIS		X			
605260	PHILADELPHIA			8/9/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Frankford Creek Partners	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
605261	PHILADELPHIA			8/15/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Frankford Creek Partners	MONITORING	OTHER		o/PaGWIS		X			
605261	PHILADELPHIA			8/15/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Frankford Creek Partners	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605262	PHILADELPHIA			8/15/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Frankford Creek Partners	MONITORING	OTHER		o/PaGWIS		X			
605262	PHILADELPHIA			8/15/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Frankford Creek Partners	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605263	PHILADELPHIA			2/19/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	MONITORING	INSTITUTIONAL		o/PaGWIS		X	X		
605263	PHILADELPHIA			2/19/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605264	PHILADELPHIA			2/27/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	MONITORING	INSTITUTIONAL		o/PaGWIS		X	X		
605264	PHILADELPHIA			2/27/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605265	PHILADELPHIA			3/8/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	MONITORING	INSTITUTIONAL		o/PaGWIS		X	X		
605265	PHILADELPHIA			3/8/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605266	PHILADELPHIA			3/4/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	MONITORING	INSTITUTIONAL		o/PaGWIS		X	X		
605266	PHILADELPHIA			3/4/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605267	PHILADELPHIA			3/4/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605267	PHILADELPHIA			3/4/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605268	PHILADELPHIA			2/25/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605268	PHILADELPHIA			2/25/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	MONITORING	OTHER		o/PaGWIS		X	X		
605269	PHILADELPHIA			3/4/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605269	PHILADELPHIA			3/4/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605270	PHILADELPHIA			2/21/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605270	PHILADELPHIA			2/21/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	MONITORING	INSTITUTIONAL		o/PaGWIS		X	X		
605271	PHILADELPHIA			2/25/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	MONITORING	INSTITUTIONAL		o/PaGWIS		X	X		
605271	PHILADELPHIA			2/25/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605272	PHILADELPHIA			2/24/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605272	PHILADELPHIA			2/24/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	MONITORING	INSTITUTIONAL		o/PaGWIS		X	X		
605273	PHILADELPHIA			2/26/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	MONITORING	INSTITUTIONAL		o/PaGWIS			X		
605273	PHILADELPHIA			2/26/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	WITHDRAWAL	DOMESTIC		o/PaGWIS		X	X		
605274	PHILADELPHIA			3/3/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605274	PHILADELPHIA			3/3/2003	EW WEL	0	0	EAST COAST DRILLING INC	Philadelphia Gas Works	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605275	PHILADELPHIA			3/30/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	GE	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605275	PHILADELPHIA			3/30/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	GE	MONITORING	OTHER		o/PaGWIS		X			
605276	PHILADELPHIA			3/30/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	GE	MONITORING	OTHER		o/PaGWIS		X			
605276	PHILADELPHIA			3/30/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	GE	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605277	PHILADELPHIA			3/30/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	GE	MONITORING	OTHER		o/PaGWIS		X			
605277	PHILADELPHIA			3/30/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	GE	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605278	PHILADELPHIA			#####	EW WEL	0	0	EAST COAST DRILLING INC	General Electric	MONITORING	OTHER		o/PaGWIS		X			
605278	PHILADELPHIA			#####	EW WEL	0	0	EAST COAST DRILLING INC	General Electric	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605279	PHILADELPHIA			#####	EW WEL	0	0	EAST COAST DRILLING INC	General Electric	MONITORING	OTHER		o/PaGWIS				X	
605279	PHILADELPHIA			#####	EW WEL	0	0	EAST COAST DRILLING INC	General Electric	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605280	PHILADELPHIA			#####	EW WEL	0	0	EAST COAST DRILLING INC	General Electric	MONITORING	OTHER		o/PaGWIS		X			
605280	PHILADELPHIA			#####	EW WEL	0	0	EAST COAST DRILLING INC	General Electric	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605281	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605281	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	SED-LOOP GEOTHERM	OTHER		o/PaGWIS		X	X		
605282	PHILADELPHIA			7/15/1991	EW WEL	0	0	LAYNE CHRISTENSEN COMPANY	General Electric	MONITORING	UNKNOWN		o/PaGWIS		X			
605282	PHILADELPHIA			7/15/1991	EW WEL	0	0	LAYNE CHRISTENSEN COMPANY	General Electric	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605283	PHILADELPHIA			8/7/1991	EW WEL	0	0	CDS/DIVISION LAYNE WESTERN CO	General Electric	MONITORING	UNKNOWN		o/PaGWIS		X			
605283	PHILADELPHIA			8/7/1991	EW WEL	0	0	CDS/DIVISION LAYNE WESTERN CO	General Electric	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605284	PHILADELPHIA			8/1/1991	EW WEL	0	0	CDS/DIVISION LAYNE WESTERN CO	General Electric	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605284	PHILADELPHIA			8/1/1991	EW WEL	0	0	CDS/DIVISION LAYNE WESTERN CO	General Electric	MONITORING	UNKNOWN		o/PaGWIS		X			
605285	PHILADELPHIA			8/1/1991	EW WEL	0	0	CDS/DIVISION LAYNE WESTERN CO	General Electric	MONITORING	UNKNOWN		o/PaGWIS		X			
605285	PHILADELPHIA			8/1/1991	EW WEL	0	0	CDS/DIVISION LAYNE WESTERN CO	General Electric	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605286	PHILADELPHIA			8/1/1991	EW WEL	0	0	CDS/DIVISION LAYNE WESTERN CO	General Electric	MONITORING	UNKNOWN		o/PaGWIS		X			
605286	PHILADELPHIA			8/1/1991	EW WEL	0	0	CDS/DIVISION LAYNE WESTERN CO	General Electric	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605287	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE - CVM INDL	General Electric Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605287	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE - CVM INDL	General Electric Corp	MONITORING	OTHER		o/PaGWIS		X			
605288	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE - CVM INDL	General Electric Corp	MONITORING	OTHER		o/PaGWIS		X			
605288	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE - CVM INDL	General Electric Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605289	PHILADELPHIA			9/12/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	General Electric	MONITORING	OTHER		o/PaGWIS		X			
605289	PHILADELPHIA			9/12/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	General Electric	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605290	PHILADELPHIA			9/12/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	General Electric	MONITORING	OTHER		o/PaGWIS		X			
605290	PHILADELPHIA			9/12/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	General Electric	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605291	PHILADELPHIA			9/12/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	General Electric	MONITORING	OTHER		o/PaGWIS		X			
605291	PHILADELPHIA			9/12/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	General Electric	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605292	PHILADELPHIA			9/12/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	General Electric	MONITORING	OTHER		o/PaGWIS		X			
605292	PHILADELPHIA			9/12/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	General Electric	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605293	PHILADELPHIA			4/26/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	David	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605293	PHILADELPHIA			4/26/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	David	MONITORING	OTHER		o/PaGWIS		X			
605294	PHILADELPHIA			2/1/1993	EW WEL	0	0	C S GARBER & SONS INC	Getty	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605294	PHILADELPHIA			2/1/1993	EW WEL	0	0	C S GARBER & SONS INC	Getty	MONITORING	UNKNOWN		o/PaGWIS		X			
605295	PHILADELPHIA			2/1/1993	EW WEL	0	0	C S GARBER & SONS INC	Getty	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605295	PHILADELPHIA			2/1/1993	EW WEL	0	0	C S GARBER & SONS INC	Getty	MONITORING	UNKNOWN		o/PaGWIS		X			
605296	PHILADELPHIA			4/27/2006	EW WEL	0	0	AMERIDRILL INC.	Getty	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605296	PHILADELPHIA			4/27/2006	EW WEL	0	0	AMERIDRILL INC.	Getty	MONITORING	OTHER		o/PaGWIS		X			
605297	PHILADELPHIA			4/26/2006	EW WEL	0	0	AMERIDRILL INC.	Getty	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605297	PHILADELPHIA			4/26/2006	EW WEL	0	0	AMERIDRILL INC.	Getty	MONITORING	OTHER		o/PaGWIS		X			

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information																Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark		Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
605298	PHILADELPHIA			4/26/2006	EW WEL	0	0	AMERIDRILL INC.	Getty	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605298	PHILADELPHIA			4/26/2006	EW WEL	0	0	AMERIDRILL INC.	Getty	MONITORING	OTHER		o/PaGWIS		X				
605299	PHILADELPHIA			4/26/2006	EW WEL	0	0	AMERIDRILL INC.	Getty	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605299	PHILADELPHIA			4/26/2006	EW WEL	0	0	AMERIDRILL INC.	Getty	MONITORING	OTHER		o/PaGWIS		X				
605300	PHILADELPHIA			4/26/2006	EW WEL	0	0	AMERIDRILL INC.	Getty	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605300	PHILADELPHIA			4/26/2006	EW WEL	0	0	AMERIDRILL INC.	Getty	MONITORING	OTHER		o/PaGWIS		X				
605301	PHILADELPHIA			12/1/2005	EW WEL	0	0	AMERIDRILL INC.	Getty Petroleum Mktg	MONITORING	UNKNOWN		o/PaGWIS		X				
605301	PHILADELPHIA			12/1/2005	EW WEL	0	0	AMERIDRILL INC.	Getty Petroleum Mktg	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605302	PHILADELPHIA			12/1/2005	EW WEL	0	0	AMERIDRILL INC.	Getty	MONITORING	UNKNOWN		o/PaGWIS		X				
605302	PHILADELPHIA			12/1/2005	EW WEL	0	0	AMERIDRILL INC.	Getty	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605303	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Getty Service Station	MONITORING	OTHER		o/PaGWIS		X				
605303	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Getty Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605304	PHILADELPHIA	7800 Ridge Ave		12/1/2005	EW WEL	0	0	AMERIDRILL INC.	Getty Petroleum	MONITORING			o/PaGWIS		X				
605304	PHILADELPHIA	7800 Ridge Ave		12/1/2005	EW WEL	0	0	AMERIDRILL INC.	Getty Petroleum	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605305	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Getty Service Station	MONITORING	DESALINATION		o/PaGWIS		X				
605305	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Getty Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605306	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Getty Service Station	MONITORING	OTHER		o/PaGWIS		X				
605306	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Getty Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605307	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Getty Service Station	MONITORING	OTHER		o/PaGWIS		X				
605307	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Getty Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605308	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Getty Service Station	MONITORING	OTHER		o/PaGWIS		X				
605308	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Getty Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605309	PHILADELPHIA			2/15/2000	EW WEL	0	0	AMERIDRILL INC.	Getty Service Station	MONITORING	UNKNOWN		o/PaGWIS		X				
605309	PHILADELPHIA			2/15/2000	EW WEL	0	0	AMERIDRILL INC.	Getty Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605310	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	MONITORING	OTHER		o/PaGWIS		X				
605310	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	MONITORING	UNKNOWN		o/PaGWIS		X				
605310	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605311	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	MONITORING	OTHER		o/PaGWIS		X				
605311	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605312	PHILADELPHIA			9/14/1991	EW WEL	0	0	MCGINNIS DRILLING	Goldman Paper Company	MONITORING	UNKNOWN		o/PaGWIS		X				
605312	PHILADELPHIA			9/14/1991	EW WEL	0	0	MCGINNIS DRILLING	Goldman Paper Company	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605313	PHILADELPHIA			8/10/1991	EW WEL	0	0	MCGINNIS DRILLING	Goldman Paper Co	MONITORING	UNKNOWN		o/PaGWIS		X				
605313	PHILADELPHIA			8/10/1991	EW WEL	0	0	MCGINNIS DRILLING	Goldman Paper Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605314	PHILADELPHIA			9/14/1991	EW WEL	0	0	MCGINNIS DRILLING	Goldman Paper Co	MONITORING	UNKNOWN		o/PaGWIS		X				
605314	PHILADELPHIA			9/14/1991	EW WEL	0	0	MCGINNIS DRILLING	Goldman Paper Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605315	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605315	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	UNKNOWN	UNKNOWN		o/PaGWIS					X	
605316	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	INJECTION	UNKNOWN		o/PaGWIS						X
605316	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605317	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	MONITORING	OTHER		o/PaGWIS		X				
605317	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605318	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	MONITORING	UNKNOWN		o/PaGWIS		X				
605318	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605319	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	MONITORING	UNKNOWN		o/PaGWIS		X				
605319	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605320	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	MONITORING	UNKNOWN		o/PaGWIS		X				
605320	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605321	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	MONITORING	UNKNOWN		o/PaGWIS		X				
605321	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605322	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	MONITORING	OTHER		o/PaGWIS		X				
605322	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605323	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	MONITORING	UNKNOWN		o/PaGWIS		X				
605323	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Goldman Paper Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605324	PHILADELPHIA			1/10/2000	EW WEL	0	0	SUMMIT DRILLING CO INC	Grays Ferry Assoc.	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605324	PHILADELPHIA			1/10/2000	EW WEL	0	0	SUMMIT DRILLING CO INC	Grays Ferry Assoc.	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605325	PHILADELPHIA			1/10/2000	EW WEL	0	0	SUMMIT DRILLING CO INC	Grays Ferry Assoc.	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605325	PHILADELPHIA			1/10/2000	EW WEL	0	0	SUMMIT DRILLING CO INC	Grays Ferry Assoc.	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605326	PHILADELPHIA			1/10/2000	EW WEL	0	0	SUMMIT DRILLING CO INC	Grays Ferry Assoc.	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605326	PHILADELPHIA			1/10/2000	EW WEL	0	0	SUMMIT DRILLING CO INC	Grays Ferry Assoc.	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605327	PHILADELPHIA			1/10/2000	EW WEL	0	0	SUMMIT DRILLING CO INC	Grays Ferry Assoc.	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605327	PHILADELPHIA			1/10/2000	EW WEL	0	0	SUMMIT DRILLING CO INC	Grays Ferry Assoc.	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605328	PHILADELPHIA			1/31/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Environ. Ser. Groundwater	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605328	PHILADELPHIA			1/31/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Environ. Ser. Groundwater	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605329	PHILADELPHIA			1/31/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Environ. Ser. Groundwater	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605329	PHILADELPHIA			1/31/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Environ. Ser. Groundwater	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605330	PHILADELPHIA			1/31/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Environ. Ser. Groundwater	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605330	PHILADELPHIA			1/31/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Environ. Ser. Groundwater	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605331	PHILADELPHIA			2/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Environ. Ser. Groundwater	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605331	PHILADELPHIA			2/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Environ. Ser. Groundwater	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605332	PHILADELPHIA			2/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Environ. Ser. Groundwater	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605332	PHILADELPHIA			2/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Environ. Ser. Groundwater	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605333	PHILADELPHIA			3/11/1992	EW WEL	0	0	SUMMIT DRILLING CO INC	Hess	MONITORING	OTHER		o/PaGWIS		X	X			
605333	PHILADELPHIA			3/11/1992	EW WEL	0	0	SUMMIT DRILLING CO INC	Hess	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605334	PHILADELPHIA			3/11/1992	EW WEL	0	0	SUMMIT DRILLING CO INC	Hess	MONITORING	OTHER		o/PaGWIS		X	X			

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
605334	PHILADELPHIA			3/11/1992	EW WEL	0	0	SUMMIT DRILLING CO INC	Hess	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605335	PHILADELPHIA			3/11/1992	EW WEL	0	0	SUMMIT DRILLING CO INC	Hess	MONITORING	OTHER		o/PaGWIS		X	X		
605335	PHILADELPHIA			3/11/1992	EW WEL	0	0	SUMMIT DRILLING CO INC	Hess	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605336	PHILADELPHIA			3/12/1992	EW WEL	0	0	SUMMIT DRILLING CO INC	Hess	MONITORING	OTHER		o/PaGWIS		X	X		
605336	PHILADELPHIA			3/12/1992	EW WEL	0	0	SUMMIT DRILLING CO INC	Hess	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605337	PHILADELPHIA			1/1/1995	EW WEL	0	0	MCGINNIS DRILLING	Hobart Brothers Company	MONITORING	OTHER		o/PaGWIS		X			
605337	PHILADELPHIA			1/1/1995	EW WEL	0	0	MCGINNIS DRILLING	Hobart Brothers Company	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605338	PHILADELPHIA			2/1/1988	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Atlantic Corp.	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605338	PHILADELPHIA			2/1/1988	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Atlantic Corp.	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605339	PHILADELPHIA			11/8/2002	EW WEL	0	0	AMERIDRILL INC.	GWf	MONITORING	UNKNOWN		o/PaGWIS		X			
605339	PHILADELPHIA			11/8/2002	EW WEL	0	0	AMERIDRILL INC.	GWf	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605340	PHILADELPHIA			5/12/2006	EW WEL	0	0	AMERIDRILL INC.	Industrial MAT. Handling Corp	MONITORING	IRRIGATION		o/PaGWIS		X			
605340	PHILADELPHIA			5/12/2006	EW WEL	0	0	AMERIDRILL INC.	Industrial MAT. Handling Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605341	PHILADELPHIA			5/12/2006	EW WEL	0	0	AMERIDRILL INC.	Industrial MAT. Handling Corp	MONITORING	IRRIGATION		o/PaGWIS		X			
605341	PHILADELPHIA			5/12/2006	EW WEL	0	0	AMERIDRILL INC.	Industrial MAT. Handling Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605342	PHILADELPHIA			5/12/2006	EW WEL	0	0	AMERIDRILL INC.	Industrial MAT. Handling Corp	MONITORING	IRRIGATION		o/PaGWIS		X			
605342	PHILADELPHIA			5/12/2006	EW WEL	0	0	AMERIDRILL INC.	Industrial MAT. Handling Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605343	PHILADELPHIA			5/12/2006	EW WEL	0	0	AMERIDRILL INC.	Industrial MAT. Handling Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605343	PHILADELPHIA			5/12/2006	EW WEL	0	0	AMERIDRILL INC.	Industrial MAT. Handling Corp	MONITORING	OTHER		o/PaGWIS		X			
605344	PHILADELPHIA			#####	EW WEL	0	0	LAYNE CHRISTENSEN COMPANY	IT Corp	UNKNOWN	OTHER		o/PaGWIS				X	
605344	PHILADELPHIA			#####	EW WEL	0	0	LAYNE CHRISTENSEN COMPANY	IT Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605345	PHILADELPHIA			5/13/2002	EW WEL	0	0	TALON DRILLING COMPANY	Jewish Federation of Philadel	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605345	PHILADELPHIA			5/13/2002	EW WEL	0	0	TALON DRILLING COMPANY	Jewish Federation of Philadel	MONITORING	OTHER		o/PaGWIS		X			
605346	PHILADELPHIA			5/14/2002	EW WEL	0	0	TALON DRILLING COMPANY	Jewish Federation of Philadel	MONITORING	OTHER		o/PaGWIS		X			
605346	PHILADELPHIA			5/14/2002	EW WEL	0	0	TALON DRILLING COMPANY	Jewish Federation of Philadel	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605347	PHILADELPHIA			5/14/2002	EW WEL	0	0	TALON DRILLING COMPANY	Jewish Federation of Philadel	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605347	PHILADELPHIA			5/14/2002	EW WEL	0	0	TALON DRILLING COMPANY	Jewish Federation of Philadel	MONITORING	OTHER		o/PaGWIS		X			
605348	PHILADELPHIA			5/15/2002	EW WEL	0	0	TALON DRILLING COMPANY	Jewish Federation of Philadel	MONITORING	OTHER		o/PaGWIS		X			
605348	PHILADELPHIA			5/15/2002	EW WEL	0	0	TALON DRILLING COMPANY	Jewish Federation of Philadel	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605349	PHILADELPHIA			5/16/1994	EW WEL	0	0	TALON DRILLING COMPANY	J.G. Hook	MONITORING	OTHER		o/PaGWIS		X			
605349	PHILADELPHIA			5/16/1994	EW WEL	0	0	TALON DRILLING COMPANY	J.G. Hook	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605350	PHILADELPHIA			5/16/1994	EW WEL	0	0	TALON DRILLING COMPANY	J.G. Hook	MONITORING	OTHER		o/PaGWIS		X			
605350	PHILADELPHIA			5/16/1994	EW WEL	0	0	TALON DRILLING COMPANY	J.G. Hook	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605351	PHILADELPHIA			5/17/1994	EW WEL	0	0	TALON DRILLING COMPANY	J.G. Hook	MONITORING	OTHER		o/PaGWIS		X			
605351	PHILADELPHIA			5/17/1994	EW WEL	0	0	TALON DRILLING COMPANY	J.G. Hook	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605352	PHILADELPHIA			5/18/1994	EW WEL	0	0	TALON DRILLING COMPANY	J.G. Hook	MONITORING	OTHER		o/PaGWIS		X			
605352	PHILADELPHIA			5/18/1994	EW WEL	0	0	TALON DRILLING COMPANY	J.G. Hook	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605353	PHILADELPHIA			9/12/1994	EW WEL	0	0	TALON DRILLING COMPANY	J.G. Hook	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605353	PHILADELPHIA			9/12/1994	EW WEL	0	0	TALON DRILLING COMPANY	J.G. Hook	MONITORING	OTHER		o/PaGWIS		X			
605354	PHILADELPHIA			7/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Keystone Lubricants	UNKNOWN	OTHER		o/PaGWIS				X	
605354	PHILADELPHIA			7/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Keystone Lubricants	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605355	PHILADELPHIA			9/1/1989	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Kirschner Bros Oil Co	MONITORING	UNKNOWN		o/PaGWIS		X			
605355	PHILADELPHIA			9/1/1989	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Kirschner Bros Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605356	PHILADELPHIA			9/1/1989	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Kirschner Bros Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605356	PHILADELPHIA			9/1/1989	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Kirschner Bros Oil Co	MONITORING	UNKNOWN		o/PaGWIS		X			
605357	PHILADELPHIA			4/20/2005	EW WEL	0	0	AMERIDRILL INC.	Korman	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605357	PHILADELPHIA			4/20/2005	EW WEL	0	0	AMERIDRILL INC.	Korman	MONITORING	OTHER		o/PaGWIS		X			
605358	PHILADELPHIA			4/20/2005	EW WEL	0	0	AMERIDRILL INC.	Korman	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605358	PHILADELPHIA			4/20/2005	EW WEL	0	0	AMERIDRILL INC.	Korman	MONITORING	OTHER		o/PaGWIS		X			
605360	PHILADELPHIA			4/21/2005	EW WEL	0	0	AMERIDRILL INC.	Korman	MONITORING	OTHER		o/PaGWIS		X			
605360	PHILADELPHIA			4/21/2005	EW WEL	0	0	AMERIDRILL INC.	Korman	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605361	PHILADELPHIA			4/21/2005	EW WEL	0	0	AMERIDRILL INC.	Korman	MONITORING	OTHER		o/PaGWIS		X			
605361	PHILADELPHIA			4/21/2005	EW WEL	0	0	AMERIDRILL INC.	Korman	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605362	PHILADELPHIA			5/17/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	LaFrance Property	MONITORING	OTHER		o/PaGWIS		X			
605362	PHILADELPHIA			5/17/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	LaFrance Property	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605363	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Laurel Linen Svs.	MONITORING	UNKNOWN		o/PaGWIS		X			
605363	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Laurel Linen Svs.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605364	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Laurel Linen Svs.	MONITORING	UNKNOWN		o/PaGWIS		X			
605364	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Laurel Linen Svs.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605365	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Laurel Linen Svs.	MONITORING	UNKNOWN		o/PaGWIS		X			
605365	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Laurel Linen Svs.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605366	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Laurel Linen Svs.	MONITORING	OTHER		o/PaGWIS		X			
605366	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Laurel Linen Svs.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605367	PHILADELPHIA			2/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Lehy Transportation Inc.	MONITORING	OTHER		o/PaGWIS		X			
605367	PHILADELPHIA			2/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Lehy Transportation Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605368	PHILADELPHIA			2/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Lehy Transportation Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605368	PHILADELPHIA			2/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Lehy Transportation Inc.	MONITORING	OTHER		o/PaGWIS		X			
605369	PHILADELPHIA			2/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Lehy Transportation Inc.	MONITORING	OTHER		o/PaGWIS		X			
605369	PHILADELPHIA			2/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Lehy Transportation Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605370	PHILADELPHIA			2/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Lehy Transportation Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605370	PHILADELPHIA			2/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Lehy Transportation Inc.	MONITORING	OTHER		o/PaGWIS		X			
605371	PHILADELPHIA			2/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Lehy Transportation Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605371	PHILADELPHIA			2/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Lehy Transportation Inc.	MONITORING	OTHER		o/PaGWIS		X			
605372	PHILADELPHIA			2/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Lehy Transportation Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information																Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark		Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
605372	PHILADELPHIA			2/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Lehy Transportation Inc.	MONITORING	OTHER		o/PaGWIS			X			
605373	PHILADELPHIA			2/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Lehy Transportation Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605373	PHILADELPHIA			2/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Lehy Transportation Inc.	MONITORING	OTHER		o/PaGWIS			X			
605374	PHILADELPHIA			2/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Lehy Transportation Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605374	PHILADELPHIA			2/8/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Lehy Transportation Inc.	MONITORING	OTHER		o/PaGWIS			X			
605375	PHILADELPHIA			5/1/2000	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Axilbund	MONITORING	OTHER		o/PaGWIS			X			
605375	PHILADELPHIA			5/1/2000	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Axilbund	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605376	PHILADELPHIA			5/1/2000	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Axilbund	MONITORING	OTHER		o/PaGWIS			X			
605376	PHILADELPHIA			5/1/2000	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Axilbund	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605377	PHILADELPHIA			5/1/2000	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Axilbund	MONITORING	OTHER		o/PaGWIS			X			
605377	PHILADELPHIA			5/1/2000	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Axilbund	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605378	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Loveland	MONITORING	OTHER		o/PaGWIS			X			
605378	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Loveland	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605379	PHILADELPHIA			5/1/1994	EW WEL	0	0	WILSON DRILLING CO	Marta Appliance Warehouse	MONITORING	OTHER		o/PaGWIS			X			
605379	PHILADELPHIA			5/1/1994	EW WEL	0	0	WILSON DRILLING CO	Marta Appliance Warehouse	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605380	PHILADELPHIA			5/9/1994	EW WEL	0	0	WILSON DRILLING CO	Marta Appliance Warehouse	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605380	PHILADELPHIA			5/9/1994	EW WEL	0	0	WILSON DRILLING CO	Marta Appliance Warehouse	MONITORING	OTHER		o/PaGWIS			X			
605381	PHILADELPHIA			2/26/1997	EW WEL	0	0	TALON DRILLING COMPANY	Merit Oil	MONITORING	OTHER		o/PaGWIS			X			
605381	PHILADELPHIA			2/26/1997	EW WEL	0	0	TALON DRILLING COMPANY	Merit Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605382	PHILADELPHIA			2/26/1997	EW WEL	0	0	TALON DRILLING COMPANY	Merit Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605382	PHILADELPHIA			2/26/1997	EW WEL	0	0	TALON DRILLING COMPANY	Merit Oil	MONITORING	OTHER		o/PaGWIS			X			
605383	PHILADELPHIA			2/26/1997	EW WEL	0	0	TALON DRILLING COMPANY	Merit Oil	MONITORING	OTHER		o/PaGWIS			X			
605383	PHILADELPHIA			2/26/1997	EW WEL	0	0	TALON DRILLING COMPANY	Merit Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605384	PHILADELPHIA			2/26/1997	EW WEL	0	0	TALON DRILLING COMPANY	Merit Oil	MONITORING	OTHER		o/PaGWIS			X			
605384	PHILADELPHIA			2/26/1997	EW WEL	0	0	TALON DRILLING COMPANY	Merit Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605385	PHILADELPHIA			6/28/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	KFC	MONITORING	OTHER		o/PaGWIS			X			
605385	PHILADELPHIA			6/28/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	KFC	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605386	PHILADELPHIA			6/28/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	KFC	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605386	PHILADELPHIA			6/28/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	KFC	MONITORING	OTHER		o/PaGWIS			X			
605387	PHILADELPHIA			6/28/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	KFC	MONITORING	OTHER		o/PaGWIS			X			
605387	PHILADELPHIA			6/28/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	KFC	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605388	PHILADELPHIA			10/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Oil	MONITORING	OTHER		o/PaGWIS			X			
605388	PHILADELPHIA			10/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605389	PHILADELPHIA			10/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Oil	MONITORING	OTHER		o/PaGWIS			X			
605389	PHILADELPHIA			10/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605390	PHILADELPHIA			2/26/1997	EW WEL	0	0	TALON DRILLING COMPANY	Merit Oil	MONITORING	OTHER		o/PaGWIS			X			
605390	PHILADELPHIA			2/26/1997	EW WEL	0	0	TALON DRILLING COMPANY	Merit Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605391	PHILADELPHIA			4/1/1990	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Service Station	MONITORING	OTHER		o/PaGWIS			X			
605391	PHILADELPHIA			4/1/1990	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605392	PHILADELPHIA			2/1/1990	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	MONITORING	UNKNOWN		o/PaGWIS			X			
605392	PHILADELPHIA			2/1/1990	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605393	PHILADELPHIA			3/7/1991	EW WEL	0	0	JESSE M KNAPPENBERGER	Merit Station	MONITORING	OTHER		o/PaGWIS			X			
605393	PHILADELPHIA			3/7/1991	EW WEL	0	0	JESSE M KNAPPENBERGER	Merit Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605394	PHILADELPHIA			3/7/1991	EW WEL	0	0	ARNOLD F HALL	Merit Station	MONITORING	OTHER		o/PaGWIS			X			
605394	PHILADELPHIA			3/7/1991	EW WEL	0	0	ARNOLD F HALL	Merit Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605395	PHILADELPHIA			1/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	MONITORING	OTHER		o/PaGWIS			X			
605395	PHILADELPHIA			1/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605396	PHILADELPHIA			1/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605396	PHILADELPHIA			1/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	MONITORING	OTHER		o/PaGWIS			X			
605397	PHILADELPHIA			1/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	MONITORING	OTHER		o/PaGWIS			X			
605397	PHILADELPHIA			1/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605398	PHILADELPHIA			1/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605398	PHILADELPHIA			1/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	MONITORING	OTHER		o/PaGWIS			X			
605399	PHILADELPHIA			1/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	MONITORING	OTHER		o/PaGWIS			X			
605399	PHILADELPHIA			1/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605400	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	Mobil 76-DF6	UNKNOWN	UNKNOWN		o/PaGWIS				X		
605400	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	Mobil 76-DF6	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605401	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	Mobil 16-DF6	UNKNOWN	UNKNOWN		o/PaGWIS				X		
605401	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	Mobil 16-DF6	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605402	PHILADELPHIA			1/1/1991	EW WEL	0	0	CS GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS			X			
605402	PHILADELPHIA			1/1/1991	EW WEL	0	0	CS GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605403	PHILADELPHIA			1/1/1991	EW WEL	0	0	CS GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS			X			
605403	PHILADELPHIA			1/1/1991	EW WEL	0	0	CS GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605404	PHILADELPHIA			1/1/1991	EW WEL	0	0	CS GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605404	PHILADELPHIA			1/1/1991	EW WEL	0	0	CS GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS			X			
605405	PHILADELPHIA			1/1/1991	EW WEL	0	0	CS GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605405	PHILADELPHIA			1/1/1991	EW WEL	0	0	CS GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS			X			
605406	PHILADELPHIA			1/1/1991	EW WEL	0	0	CS GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS			X			
605406	PHILADELPHIA			1/1/1991	EW WEL	0	0	CS GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605407	PHILADELPHIA			12/1/1991	EW WEL	0	0	CS GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS					X	
605407	PHILADELPHIA			12/1/1991	EW WEL	0	0	CS GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605408	PHILADELPHIA			12/1/1991	EW WEL	0	0	CS GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605408	PHILADELPHIA			12/1/1991	EW WEL	0	0	CS GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS					X	
605409	PHILADELPHIA			12/1/1991	EW WEL	0	0	CS GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	

**Table 1**  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
605409	PHILADELPHIA			12/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605410	PHILADELPHIA			12/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605410	PHILADELPHIA			12/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605411	PHILADELPHIA			12/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605411	PHILADELPHIA			12/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605412	PHILADELPHIA			11/1/1990	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605412	PHILADELPHIA			11/1/1990	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605413	PHILADELPHIA			11/1/1990	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605414	PHILADELPHIA			11/1/1990	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605414	PHILADELPHIA			11/1/1990	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605415	PHILADELPHIA			11/1/1990	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605415	PHILADELPHIA			11/1/1990	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605416	PHILADELPHIA			6/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605416	PHILADELPHIA			6/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605418	PHILADELPHIA			6/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605418	PHILADELPHIA			6/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605419	PHILADELPHIA			6/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605419	PHILADELPHIA			6/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605420	PHILADELPHIA			7/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605420	PHILADELPHIA			7/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605421	PHILADELPHIA			9/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605421	PHILADELPHIA			9/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605422	PHILADELPHIA			9/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605422	PHILADELPHIA			9/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605423	PHILADELPHIA			9/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605423	PHILADELPHIA			9/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605424	PHILADELPHIA			9/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605424	PHILADELPHIA			9/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605425	PHILADELPHIA			9/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605425	PHILADELPHIA			9/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605426	PHILADELPHIA			9/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605426	PHILADELPHIA			9/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605427	PHILADELPHIA			9/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605427	PHILADELPHIA			9/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605428	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605428	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605429	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605429	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605430	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605430	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605431	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605431	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605432	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605432	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605433	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605433	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605434	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605434	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605435	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605435	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605436	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605436	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605437	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605437	PHILADELPHIA			10/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605438	PHILADELPHIA			2/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605438	PHILADELPHIA			2/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605439	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605439	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605440	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605440	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605441	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605441	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605442	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605442	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605443	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605443	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605444	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605444	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605445	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605445	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605446	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605446	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605447	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		



Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
605447	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605448	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605448	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605449	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605449	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605450	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605450	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605451	PHILADELPHIA			7/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605451	PHILADELPHIA			7/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605452	PHILADELPHIA			8/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605452	PHILADELPHIA			8/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605453	PHILADELPHIA			11/1/1989	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	TEST	UNKNOWN		o/PaGWIS		X	X		
605453	PHILADELPHIA			11/1/1989	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605454	PHILADELPHIA			11/1/1989	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	TEST	UNKNOWN		o/PaGWIS		X	X		
605454	PHILADELPHIA			11/1/1989	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605455	PHILADELPHIA			11/1/1989	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	TEST	UNKNOWN		o/PaGWIS		X	X		
605455	PHILADELPHIA			11/1/1989	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605456	PHILADELPHIA			11/1/1989	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	TEST	UNKNOWN		o/PaGWIS		X	X		
605456	PHILADELPHIA			11/1/1989	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605457	PHILADELPHIA			1/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	TEST	UNKNOWN		o/PaGWIS		X	X		
605457	PHILADELPHIA			1/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605458	PHILADELPHIA			1/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	TEST	UNKNOWN		o/PaGWIS		X	X		
605458	PHILADELPHIA			1/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605459	PHILADELPHIA			1/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	TEST	UNKNOWN		o/PaGWIS		X	X		
605459	PHILADELPHIA			1/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605460	PHILADELPHIA			1/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	TEST	UNKNOWN		o/PaGWIS		X	X		
605460	PHILADELPHIA			1/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605461	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	TEST	UNKNOWN		o/PaGWIS		X	X		
605461	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605462	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	TEST	UNKNOWN		o/PaGWIS		X	X		
605462	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605463	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	TEST	UNKNOWN		o/PaGWIS		X	X		
605463	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605464	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	TEST	UNKNOWN		o/PaGWIS		X	X		
605464	PHILADELPHIA			3/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605465	PHILADELPHIA			4/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Mobil Oil Co	MONITORING	OTHER		o/PaGWIS		X	X		
605465	PHILADELPHIA			4/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605466	PHILADELPHIA			4/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Mobil Oil Co	MONITORING	OTHER		o/PaGWIS		X	X		
605466	PHILADELPHIA			4/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605467	PHILADELPHIA			4/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Mobil Oil Co	MONITORING	OTHER		o/PaGWIS		X	X		
605467	PHILADELPHIA			4/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605468	PHILADELPHIA			4/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Mobil Oil Co	MONITORING	OTHER		o/PaGWIS		X	X		
605468	PHILADELPHIA			4/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605469	PHILADELPHIA			1/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	TEST	UNKNOWN		o/PaGWIS		X	X		
605469	PHILADELPHIA			1/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605470	PHILADELPHIA			1/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	TEST	UNKNOWN		o/PaGWIS		X	X		
605470	PHILADELPHIA			1/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605471	PHILADELPHIA			1/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	TEST	UNKNOWN		o/PaGWIS		X	X		
605471	PHILADELPHIA			1/1/1990	EW WEL	0	0	IT ENVIRONMENTAL INC	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605472	PHILADELPHIA			8/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Mobil Oil Co	TEST	OTHER		o/PaGWIS		X	X		
605472	PHILADELPHIA			8/1/1990	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Mobil Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605475	PHILADELPHIA			12/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605475	PHILADELPHIA			12/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605476	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605476	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605477	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605477	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605478	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605478	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605479	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605479	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605480	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	UNKNOWN	UNKNOWN		o/PaGWIS			X		
605480	PHILADELPHIA			3/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605481	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	National Fiberstok	MONITORING	OTHER		o/PaGWIS		X			
605481	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	National Fiberstok				o/PaGWIS					
605482	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	National Fiberstok				o/PaGWIS					
605482	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	National Fiberstok	MONITORING	OTHER		o/PaGWIS		X			
605483	PHILADELPHIA			4/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605483	PHILADELPHIA			4/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	UNKNOWN	OTHER		o/PaGWIS			X		
605484	PHILADELPHIA			4/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605484	PHILADELPHIA			4/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605485	PHILADELPHIA			4/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605485	PHILADELPHIA			4/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605486	PHILADELPHIA			4/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
605486	PHILADELPHIA			4/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605487	PHILADELPHIA			4/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605487	PHILADELPHIA			4/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605488	PHILADELPHIA			4/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605488	PHILADELPHIA			4/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605489	PHILADELPHIA			4/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605489	PHILADELPHIA			4/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605490	PHILADELPHIA			6/6/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605490	PHILADELPHIA			6/6/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605491	PHILADELPHIA			6/6/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605491	PHILADELPHIA			6/6/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605492	PHILADELPHIA			6/6/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605494	PHILADELPHIA			6/7/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605494	PHILADELPHIA			6/7/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605495	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605495	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605496	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605496	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605497	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605497	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605498	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605498	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605499	PHILADELPHIA			8/15/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605499	PHILADELPHIA			8/15/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605500	PHILADELPHIA			8/15/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605500	PHILADELPHIA			8/15/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605501	PHILADELPHIA			8/15/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605501	PHILADELPHIA			8/15/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605502	PHILADELPHIA			3/21/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605502	PHILADELPHIA			3/21/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605503	PHILADELPHIA			3/21/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605503	PHILADELPHIA			3/21/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605504	PHILADELPHIA			3/21/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605504	PHILADELPHIA			3/21/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605505	PHILADELPHIA			3/11/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605505	PHILADELPHIA			3/11/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605506	PHILADELPHIA			3/11/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605506	PHILADELPHIA			3/11/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605507	PHILADELPHIA			6/24/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605507	PHILADELPHIA			6/24/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605508	PHILADELPHIA			3/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605508	PHILADELPHIA			3/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605509	PHILADELPHIA			3/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605509	PHILADELPHIA			3/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605510	PHILADELPHIA			7/15/2002	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mort's Auto Repair	MONITORING	OTHER		o/PaGWIS		X			
605510	PHILADELPHIA			7/15/2002	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mort's Auto Repair	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605511	PHILADELPHIA			7/5/2002	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mort's Auto Repair	MONITORING	OTHER		o/PaGWIS		X			
605511	PHILADELPHIA			7/5/2002	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mort's Auto Repair	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605512	PHILADELPHIA			7/5/2002	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mort's Auto Repair	MONITORING	OTHER		o/PaGWIS		X			
605512	PHILADELPHIA			7/5/2002	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mort's Auto Repair	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605513	PHILADELPHIA			6/17/2005	EW WEL	0	0	TALON DRILLING COMPANY	Motiva	MONITORING	OTHER		o/PaGWIS		X			
605513	PHILADELPHIA			6/17/2005	EW WEL	0	0	TALON DRILLING COMPANY	Motiva	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605514	PHILADELPHIA			9/19/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mrs. Pauls	MONITORING	OTHER		o/PaGWIS		X			
605514	PHILADELPHIA			9/19/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mrs. Pauls	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605515	PHILADELPHIA			9/19/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mrs. Pauls	MONITORING	OTHER		o/PaGWIS		X			
605515	PHILADELPHIA			9/19/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mrs. Pauls	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605516	PHILADELPHIA			2/1/1993	EW WEL	0	0	C S GARBER & SONS INC	Getty	MONITORING	UNKNOWN		o/PaGWIS		X			
605516	PHILADELPHIA			2/1/1993	EW WEL	0	0	C S GARBER & SONS INC	Getty	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605517	PHILADELPHIA			10/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Nannette MFG	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605517	PHILADELPHIA			10/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Nannette MFG	MONITORING	OTHER		o/PaGWIS		X			
605518	PHILADELPHIA			10/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Nannette MFG	MONITORING	OTHER		o/PaGWIS		X			
605518	PHILADELPHIA			10/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Nannette MFG	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605519	PHILADELPHIA			10/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Nannette MFG	MONITORING	OTHER		o/PaGWIS		X			
605519	PHILADELPHIA			10/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Nannette MFG	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605520	PHILADELPHIA			10/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605520	PHILADELPHIA			10/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605521	PHILADELPHIA			10/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X		
605521	PHILADELPHIA			10/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605522	PHILADELPHIA			1/9/2003	EW WEL	0	0	TALON DRILLING COMPANY	NATCO Atlantic Metal	MONITORING	OTHER		o/PaGWIS		X			
605522	PHILADELPHIA			1/9/2003	EW WEL	0	0	TALON DRILLING COMPANY	NATCO Atlantic Metal	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605523	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE - CVM INDU	National Fiberstok	MONITORING	OTHER		o/PaGWIS		X			
605523	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE - CVM INDU	National Fiberstok	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605524	PHILADELPHIA			3/1/1993	EW WEL	0	0	C S GARBER & SONS INC	National State Bank	MONITORING	UNKNOWN		o/PaGWIS		X			

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
605524	PHILADELPHIA			3/1/1993	EW WEL	0	0	C S GARBER & SONS INC	National State Bank	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605525	PHILADELPHIA			3/1/1993	EW WEL	0	0	C S GARBER & SONS INC	National State Bank	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605525	PHILADELPHIA			3/1/1993	EW WEL	0	0	C S GARBER & SONS INC	National State Bank	MONITORING	UNKNOWN		o/PaGWIS	X				
605526	PHILADELPHIA			3/1/1993	EW WEL	0	0	C S GARBER & SONS INC	National State Bank	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605526	PHILADELPHIA			3/1/1993	EW WEL	0	0	C S GARBER & SONS INC	National State Bank	MONITORING	UNKNOWN		o/PaGWIS	X				
605528	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Philadelphia Naval Hospital	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605528	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Philadelphia Naval Hospital	MONITORING	OTHER		o/PaGWIS	X				
605529	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Philadelphia Naval Hospital	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605529	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Philadelphia Naval Hospital	MONITORING	OTHER		o/PaGWIS	X				
605530	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Philadelphia Naval Hospital	MONITORING	OTHER		o/PaGWIS	X				
605530	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Philadelphia Naval Hospital	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605531	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Philadelphia Naval Hospital	MONITORING	OTHER		o/PaGWIS	X				
605531	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Philadelphia Naval Hospital	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605532	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Philadelphia Naval Hospital	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605532	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Philadelphia Naval Hospital	MONITORING	OTHER		o/PaGWIS	X				
605533	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Philadelphia Naval Hospital	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605533	PHILADELPHIA			#####	EW WEL	0	0	AC SCHULTES INC	Philadelphia Naval Hospital	MONITORING	OTHER		o/PaGWIS	X				
605534	PHILADELPHIA			#####	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Nazareth Hospital	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605534	PHILADELPHIA			#####	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Nazareth Hospital	MONITORING	INSTITUTIONAL		o/PaGWIS	X				
605535	PHILADELPHIA			#####	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Nazareth Hospital	MONITORING	INSTITUTIONAL		o/PaGWIS	X				
605535	PHILADELPHIA			#####	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Nazareth Hospital	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605536	PHILADELPHIA			#####	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Nazareth Hospital	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605536	PHILADELPHIA			#####	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	Nazareth Hospital	MONITORING	INSTITUTIONAL		o/PaGWIS	X				
605537	PHILADELPHIA			5/23/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	N.E. Fence Co	MONITORING	OTHER		o/PaGWIS	X				
605537	PHILADELPHIA			5/23/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	N.E. Fence Co	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605538	PHILADELPHIA			5/23/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	N.E. Fence Co	MONITORING	OTHER		o/PaGWIS	X				
605538	PHILADELPHIA			5/23/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	N.E. Fence Co	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605539	PHILADELPHIA			3/1/2000	EW WEL	0	0	ADT-DIAMOND DRILLING INC.	NE Philadelphia Airport	MONITORING	OTHER		o/PaGWIS	X				
605539	PHILADELPHIA			3/1/2000	EW WEL	0	0	ADT-DIAMOND DRILLING INC.	NE Philadelphia Airport	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605540	PHILADELPHIA			3/2/2000	EW WEL	0	0	ADT-DIAMOND DRILLING INC.	NE Philadelphia Airport	MONITORING	OTHER		o/PaGWIS	X				
605540	PHILADELPHIA			3/2/2000	EW WEL	0	0	ADT-DIAMOND DRILLING INC.	NE Philadelphia Airport	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605541	PHILADELPHIA			3/2/2000	EW WEL	0	0	ADT-DIAMOND DRILLING INC.	NE Philadelphia Airport	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605541	PHILADELPHIA			3/2/2000	EW WEL	0	0	ADT-DIAMOND DRILLING INC.	NE Philadelphia Airport	MONITORING	OTHER		o/PaGWIS	X				
605542	PHILADELPHIA			1/25/2005	EW WEL	0	0	AMERIDRILL INC.	Unknown	MONITORING	OTHER		o/PaGWIS	X				
605542	PHILADELPHIA			1/25/2005	EW WEL	0	0	AMERIDRILL INC.	Unknown	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605543	PHILADELPHIA			4/1/1991	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	Unknown	MONITORING	INDUSTRIAL		o/PaGWIS	X				
605543	PHILADELPHIA			4/1/1991	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	Unknown	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605544	PHILADELPHIA			4/1/1991	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	Unknown	MONITORING	INDUSTRIAL		o/PaGWIS	X				
605544	PHILADELPHIA			4/1/1991	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	Unknown	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605545	PHILADELPHIA			4/1/1991	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	Unknown	MONITORING	INDUSTRIAL		o/PaGWIS	X				
605545	PHILADELPHIA			4/1/1991	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	Unknown	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605546	PHILADELPHIA			8/30/2005	EW WEL	0	0		Unknown	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605546	PHILADELPHIA			8/30/2005	EW WEL	0	0		Unknown	MONITORING	UNKNOWN		o/PaGWIS	X				
605547	PHILADELPHIA			8/18/2005	EW WEL	0	0		Unknown	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605547	PHILADELPHIA			8/18/2005	EW WEL	0	0		Unknown	MONITORING	UNKNOWN		o/PaGWIS	X				
605548	PHILADELPHIA			4/2/1993	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	Unknown	MONITORING	UNKNOWN		o/PaGWIS	X				
605548	PHILADELPHIA			4/2/1993	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	Unknown	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605549	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Unknown	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605549	PHILADELPHIA			#####	EW WEL	0	0	GROUNDWATER TECHNOLOGY	Unknown	MONITORING	UNKNOWN		o/PaGWIS	X				
605550	PHILADELPHIA			8/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Northeast Philadelphia Airpor	MONITORING	UNKNOWN		o/PaGWIS	X				
605550	PHILADELPHIA			8/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Northeast Philadelphia Airpor	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605551	PHILADELPHIA			8/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Northeast Philadelphia Airpor	MONITORING	UNKNOWN		o/PaGWIS	X				
605551	PHILADELPHIA			8/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Northeast Philadelphia Airpor	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605552	PHILADELPHIA			8/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Northeast Philadelphia Airpor	MONITORING	UNKNOWN		o/PaGWIS	X				
605552	PHILADELPHIA			8/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Northeast Philadelphia Airpor	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605553	PHILADELPHIA			1/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Northeast Philadelphia Airpor	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605553	PHILADELPHIA			1/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Northeast Philadelphia Airpor	MONITORING	UNKNOWN		o/PaGWIS	X				
605554	PHILADELPHIA			1/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Northeast Philadelphia Airpor	MONITORING	UNKNOWN		o/PaGWIS	X				
605554	PHILADELPHIA			1/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Northeast Philadelphia Airpor	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605555	PHILADELPHIA			1/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Northeast Philadelphia Airpor	MONITORING	UNKNOWN		o/PaGWIS	X				
605555	PHILADELPHIA			1/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Northeast Philadelphia Airpor	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605556	PHILADELPHIA			1/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Northeast Philadelphia Airpor	MONITORING	UNKNOWN		o/PaGWIS	X				
605556	PHILADELPHIA			1/1/1992	EW WEL	0	0	C S GARBER & SONS INC	Northeast Philadelphia Airpor	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605557	PHILADELPHIA			6/20/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Old Industrial Building	MONITORING	OTHER		o/PaGWIS	X				
605557	PHILADELPHIA			6/20/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Old Industrial Building	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605558	PHILADELPHIA			1/19/1993	EW WEL	0	0	MCGINNIS DRILLING	ORFA Facility	MONITORING	OTHER		o/PaGWIS	X				
605558	PHILADELPHIA			1/19/1993	EW WEL	0	0	MCGINNIS DRILLING	ORFA Facility	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605559	PHILADELPHIA			1/19/1993	EW WEL	0	0	MCGINNIS DRILLING	ORFA Facility	MONITORING	OTHER		o/PaGWIS	X				
605559	PHILADELPHIA			1/19/1993	EW WEL	0	0	MCGINNIS DRILLING	ORFA Facility	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605560	PHILADELPHIA			1/20/1993	EW WEL	0	0	MCGINNIS DRILLING	ORFA Facility	MONITORING	UNKNOWN		o/PaGWIS	X				
605560	PHILADELPHIA			1/20/1993	EW WEL	0	0	MCGINNIS DRILLING	ORFA Facility	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605561	PHILADELPHIA			1/20/1993	EW WEL	0	0	MCGINNIS DRILLING	ORFA Facility	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605561	PHILADELPHIA			1/20/1993	EW WEL	0	0	MCGINNIS DRILLING	ORFA Facility	MONITORING	OTHER		o/PaGWIS	X				
605562	PHILADELPHIA			1/22/1997	EW WEL	0	0	SUMMIT DRILLING CO INC	ORFA Corp of America	MONITORING	INDUSTRIAL		o/PaGWIS	X				

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information																Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark		Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
605562	PHILADELPHIA			1/22/1997	EW WEL	0	0	SUMMIT DRILLING CO INC	ORFA Corp of America	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605563	PHILADELPHIA			1/22/1997	EW WEL	0	0	SUMMIT DRILLING CO INC	ORFA Corp of America	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605563	PHILADELPHIA			1/22/1997	EW WEL	0	0	SUMMIT DRILLING CO INC	ORFA Corp of America	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605564	PHILADELPHIA			1/22/1997	EW WEL	0	0	SUMMIT DRILLING CO INC	ORFA Corp of America	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605564	PHILADELPHIA			1/22/1997	EW WEL	0	0	SUMMIT DRILLING CO INC	ORFA Corp of America	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605565	PHILADELPHIA			1/22/1997	EW WEL	0	0	SUMMIT DRILLING CO INC	ORFA Corp of America	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605565	PHILADELPHIA			1/22/1997	EW WEL	0	0	SUMMIT DRILLING CO INC	ORFA Corp of America	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605566	PHILADELPHIA			1/22/1997	EW WEL	0	0	SUMMIT DRILLING CO INC	ORFA Corp of America	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605566	PHILADELPHIA			1/22/1997	EW WEL	0	0	SUMMIT DRILLING CO INC	ORFA Corp of America	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605567	PHILADELPHIA			9/28/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Packer Ave Marine Terminal	MONITORING	OTHER		o/PaGWIS		X				
605567	PHILADELPHIA			9/28/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Packer Ave Marine Terminal	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605568	PHILADELPHIA			9/28/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Packer Ave Marine Terminal	MONITORING	OTHER		o/PaGWIS		X				
605568	PHILADELPHIA			9/28/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Packer Ave Marine Terminal	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605569	PHILADELPHIA			6/19/1992	EW WEL	0	0	A LEXANDER MACPHEE--CVM INDU	Paragon Environmental	MONITORING	OTHER		o/PaGWIS		X				
605569	PHILADELPHIA			6/19/1992	EW WEL	0	0	A LEXANDER MACPHEE--CVM INDU	Paragon Environmental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605570	PHILADELPHIA			6/19/1992	EW WEL	0	0	A LEXANDER MACPHEE--CVM INDU	Paragon Environmental	MONITORING	OTHER		o/PaGWIS		X				
605570	PHILADELPHIA			6/19/1992	EW WEL	0	0	A LEXANDER MACPHEE--CVM INDU	Paragon Environmental	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605571	PHILADELPHIA			6/19/1992	EW WEL	0	0	A LEXANDER MACPHEE--CVM INDU	Paragon Environmental	MONITORING	OTHER		o/PaGWIS		X				
605571	PHILADELPHIA			6/19/1992	EW WEL	0	0	A LEXANDER MACPHEE--CVM INDU	Paragon Environmental	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605572	PHILADELPHIA			2/16/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	PECO Site 1	MONITORING	OTHER		o/PaGWIS		X				
605572	PHILADELPHIA			2/16/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	PECO Site 1	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605573	PHILADELPHIA			2/16/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	PECO Site 1	MONITORING	OTHER		o/PaGWIS		X				
605573	PHILADELPHIA			2/16/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	PECO Site 1	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605574	PHILADELPHIA			10/1/1990	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	PE Co	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605574	PHILADELPHIA			10/1/1990	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	PE Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605575	PHILADELPHIA			10/1/1990	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	PE Co	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605575	PHILADELPHIA			10/1/1990	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	PE Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605576	PHILADELPHIA			10/1/1990	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	PE Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605576	PHILADELPHIA			10/1/1990	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	PE Co	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605577	PHILADELPHIA			10/1/1990	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	PE Co	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605577	PHILADELPHIA			10/1/1990	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	PE Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605578	PHILADELPHIA			10/1/1990	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	PE Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605578	PHILADELPHIA			10/1/1990	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	PE Co	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605579	PHILADELPHIA			1/1/1991	EW WEL	0	0	CS GARBET & SONS INC	Mobil	MONITORING	UNKNOWN		o/PaGWIS		X	X			
605579	PHILADELPHIA			1/1/1991	EW WEL	0	0	CS GARBET & SONS INC	Mobil	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605580	PHILADELPHIA			7/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	PECO	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605580	PHILADELPHIA			7/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	PECO	MONITORING	OTHER		o/PaGWIS		X				
605581	PHILADELPHIA			1/14/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	PECO	MONITORING	OTHER		o/PaGWIS		X				
605581	PHILADELPHIA			1/14/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	PECO	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605582	PHILADELPHIA			1/14/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	PECO	MONITORING	OTHER		o/PaGWIS		X				
605582	PHILADELPHIA			1/14/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	PECO	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605583	PHILADELPHIA			1/14/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	PECO	MONITORING	OTHER		o/PaGWIS		X				
605583	PHILADELPHIA			1/14/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	PECO	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605584	PHILADELPHIA			6/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X			
605584	PHILADELPHIA			6/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605585	PHILADELPHIA			6/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X			
605585	PHILADELPHIA			6/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605586	PHILADELPHIA			6/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X			
605586	PHILADELPHIA			6/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605587	PHILADELPHIA			6/5/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X			
605587	PHILADELPHIA			6/5/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605588	PHILADELPHIA			9/1/2000	EW WEL	0	0	CS GARBET & SONS INC	Pinto's Atlantic Inc	MONITORING	UNKNOWN		o/PaGWIS		X				
605588	PHILADELPHIA			9/1/2000	EW WEL	0	0	CS GARBET & SONS INC	Pinto's Atlantic Inc	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605589	PHILADELPHIA			9/1/2000	EW WEL	0	0	CS GARBET & SONS INC	Pinto's Atlantic Inc	MONITORING	UNKNOWN		o/PaGWIS		X				
605589	PHILADELPHIA			9/1/2000	EW WEL	0	0	CS GARBET & SONS INC	Pinto's Atlantic Inc	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605590	PHILADELPHIA			9/1/2000	EW WEL	0	0	CS GARBET & SONS INC	Pinto's Atlantic Inc	MONITORING	UNKNOWN		o/PaGWIS		X				
605590	PHILADELPHIA			9/1/2000	EW WEL	0	0	CS GARBET & SONS INC	Pinto's Atlantic Inc	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605591	PHILADELPHIA			5/8/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Police Fueling Facility	MONITORING	OTHER		o/PaGWIS		X				
605591	PHILADELPHIA			5/8/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Police Fueling Facility	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605592	PHILADELPHIA			5/8/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Police Fueling Facility	MONITORING	OTHER		o/PaGWIS		X				
605592	PHILADELPHIA			5/8/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Police Fueling Facility	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605593	PHILADELPHIA			5/8/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Police Fueling Facility	MONITORING	OTHER		o/PaGWIS		X				
605593	PHILADELPHIA			5/8/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Police Fueling Facility	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605594	PHILADELPHIA			5/8/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Police Fueling Facility	MONITORING	OTHER		o/PaGWIS		X				
605594	PHILADELPHIA			5/8/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Police Fueling Facility	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605595	PHILADELPHIA			2/12/1997	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Police Station	MONITORING	OTHER		o/PaGWIS		X				
605595	PHILADELPHIA			2/12/1997	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Police Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605596	PHILADELPHIA			2/12/1997	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Police Station	MONITORING	OTHER		o/PaGWIS		X				
605596	PHILADELPHIA			2/12/1997	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Police Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605597	PHILADELPHIA			2/12/1997	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Police Station	MONITORING	OTHER		o/PaGWIS		X				
605597	PHILADELPHIA			2/12/1997	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Police Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605598	PHILADELPHIA			2/12/1997	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Police Station	MONITORING	OTHER		o/PaGWIS		X				
605598	PHILADELPHIA			2/12/1997	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Police Station	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605599	PHILADELPHIA			6/25/2003	EW WEL	0	0	SUMMIT DRILLING CO INC	Post Office	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
605599	PHILADELPHIA			6/25/2003	EW WEL	0	0	SUMMIT DRILLING CO INC	Post Office	MONITORING	INDUSTRIAL		o/PaGWIS		X			
605600	PHILADELPHIA			6/25/2003	EW WEL	0	0	SUMMIT DRILLING CO INC	Post Office	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605600	PHILADELPHIA			6/25/2003	EW WEL	0	0	SUMMIT DRILLING CO INC	Post Office	MONITORING	INDUSTRIAL		o/PaGWIS		X			
605601	PHILADELPHIA			6/26/2003	EW WEL	0	0	SUMMIT DRILLING CO INC	Post Office	MONITORING	INDUSTRIAL		o/PaGWIS		X			
605601	PHILADELPHIA			6/26/2003	EW WEL	0	0	SUMMIT DRILLING CO INC	Post Office	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605602	PHILADELPHIA			6/26/2003	EW WEL	0	0	SUMMIT DRILLING CO INC	Post Office	MONITORING	INDUSTRIAL		o/PaGWIS		X			
605602	PHILADELPHIA			6/26/2003	EW WEL	0	0	SUMMIT DRILLING CO INC	Post Office	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605603	PHILADELPHIA			6/3/1992	EW WEL	0	0	A LEXANDER MACPHEE - CVM INDL	Prentiss Properties	MONITORING	OTHER		o/PaGWIS		X			
605603	PHILADELPHIA			6/3/1992	EW WEL	0	0	A LEXANDER MACPHEE - CVM INDL	Prentiss Properties	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605604	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Progress Shopping Center	MONITORING	OTHER		o/PaGWIS		X			
605604	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Progress Shopping Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605605	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Progress Shopping Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605605	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Progress Shopping Center	MONITORING	OTHER		o/PaGWIS		X			
605606	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Progress Shopping Center	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605606	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Progress Shopping Center	MONITORING	UNKNOWN		o/PaGWIS		X			
605607	PHILADELPHIA			2/8/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ransom Environmental	MONITORING	INDUSTRIAL		o/PaGWIS		X			
605607	PHILADELPHIA			2/8/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ransom Environmental	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605608	PHILADELPHIA			2/9/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ransom Environmental	MONITORING	INDUSTRIAL		o/PaGWIS		X			
605608	PHILADELPHIA			2/9/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ransom Environmental	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605609	PHILADELPHIA			2/8/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ransom Environmental	MONITORING	INDUSTRIAL		o/PaGWIS		X			
605609	PHILADELPHIA			2/8/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ransom Environmental	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605610	PHILADELPHIA			6/26/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	The Redevelopment Authority	MONITORING	OTHER		o/PaGWIS		X			
605610	PHILADELPHIA			6/26/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	The Redevelopment Authority	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605611	PHILADELPHIA			6/26/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	The Redevelopment Authority	MONITORING	OTHER		o/PaGWIS		X			
605611	PHILADELPHIA			6/26/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	The Redevelopment Authority	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605612	PHILADELPHIA			6/26/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	The Redevelopment Authority	MONITORING	OTHER		o/PaGWIS		X			
605612	PHILADELPHIA			6/26/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	The Redevelopment Authority	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605613	PHILADELPHIA			6/26/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	The Redevelopment Authority	MONITORING	OTHER		o/PaGWIS		X			
605613	PHILADELPHIA			6/26/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	The Redevelopment Authority	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605614	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Residence	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605614	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Residence	MONITORING	UNKNOWN		o/PaGWIS		X			
605615	PHILADELPHIA			6/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Rexnord Linkbelt Corp	MONITORING	UNKNOWN		o/PaGWIS		X			
605615	PHILADELPHIA			6/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Rexnord Linkbelt Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605616	PHILADELPHIA			6/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Rexnord Linkbelt Corp	MONITORING	UNKNOWN		o/PaGWIS		X			
605616	PHILADELPHIA			6/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Rexnord Linkbelt Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605617	PHILADELPHIA			6/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Rexnord Linkbelt Corp	MONITORING	UNKNOWN		o/PaGWIS		X			
605617	PHILADELPHIA			6/1/1991	EW WEL	0	0	C S GARBER & SONS INC	Rexnord Linkbelt Corp	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605618	PHILADELPHIA			6/30/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Rhone-Poulenc Inc	MONITORING	OTHER		o/PaGWIS		X			
605618	PHILADELPHIA			6/30/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Rhone-Poulenc Inc	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605619	PHILADELPHIA			7/1/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Rhone-Poulenc Inc	MONITORING	OTHER		o/PaGWIS		X			
605619	PHILADELPHIA			7/1/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Rhone-Poulenc Inc	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605620	PHILADELPHIA			9/8/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS		X	X		
605620	PHILADELPHIA			9/8/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605621	PHILADELPHIA			9/7/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS		X	X		
605621	PHILADELPHIA			9/7/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605622	PHILADELPHIA			5/15/1992	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	Rittenhouse Care CTR	MONITORING	OTHER		o/PaGWIS		X			
605622	PHILADELPHIA			5/15/1992	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	Rittenhouse Care CTR	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605623	PHILADELPHIA			8/6/1994	EW WEL	0	0	TABASCO DRILLING CORPORATION	Roadway	MONITORING	OTHER		o/PaGWIS		X			
605623	PHILADELPHIA			8/6/1994	EW WEL	0	0	TABASCO DRILLING CORPORATION	Roadway	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605624	PHILADELPHIA			7/29/1996	EW WEL	0	0	H P DRILLING DBA/EZSI	Rohm and Haas	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605624	PHILADELPHIA			7/29/1996	EW WEL	0	0	H P DRILLING DBA/EZSI	Rohm and Haas	MONITORING	OTHER		o/PaGWIS		X			
605625	PHILADELPHIA			6/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	UNKNOWN	OTHER		o/PaGWIS			X		
605625	PHILADELPHIA			6/1/1991	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605626	PHILADELPHIA			9/15/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ryder Truck	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605626	PHILADELPHIA			9/15/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ryder Truck	MONITORING	INDUSTRIAL		o/PaGWIS		X			
605627	PHILADELPHIA			9/13/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ryder Truck	MONITORING	INDUSTRIAL		o/PaGWIS		X			
605627	PHILADELPHIA			9/13/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ryder Truck	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605628	PHILADELPHIA			9/14/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ryder Truck	MONITORING	INDUSTRIAL		o/PaGWIS		X			
605628	PHILADELPHIA			9/14/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ryder Truck	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605629	PHILADELPHIA			9/14/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ryder Truck	MONITORING	INDUSTRIAL		o/PaGWIS		X			
605629	PHILADELPHIA			9/14/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ryder Truck	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605630	PHILADELPHIA			9/14/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ryder Truck	MONITORING	INDUSTRIAL		o/PaGWIS		X			
605630	PHILADELPHIA			9/14/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ryder Truck	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605631	PHILADELPHIA			9/15/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ryder Truck	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605631	PHILADELPHIA			9/15/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ryder Truck	MONITORING	INDUSTRIAL		o/PaGWIS		X			
605632	PHILADELPHIA			9/15/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ryder Truck	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605632	PHILADELPHIA			9/15/1993	EW WEL	0	0	SUMMIT DRILLING CO INC	Ryder Truck	MONITORING	INDUSTRIAL		o/PaGWIS		X			
605633	PHILADELPHIA			8/8/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Loveland	MONITORING	OTHER		o/PaGWIS				X	
605633	PHILADELPHIA			8/8/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Loveland	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605634	PHILADELPHIA			8/8/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Loveland	MONITORING	OTHER		o/PaGWIS		X			
605634	PHILADELPHIA			8/8/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Loveland	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605635	PHILADELPHIA			8/8/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Loveland	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605635	PHILADELPHIA			8/8/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Loveland	MONITORING	OTHER		o/PaGWIS		X			
605636	PHILADELPHIA			2/13/1985	EW WEL	0	0	SUMMIT DRILLING CO INC	Seaboard Tank Lines	MONITORING	INDUSTRIAL		o/PaGWIS		X			

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information																Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark		Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
605636	PHILADELPHIA			2/13/1985	EW WEL	0	0	SUMMIT DRILLING CO INC	Seaboard Tank Lines	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605637	PHILADELPHIA			2/14/1995	EW WEL	0	0	SUMMIT DRILLING CO INC	Seaboard Tank Lines	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605637	PHILADELPHIA			2/14/1995	EW WEL	0	0	SUMMIT DRILLING CO INC	Seaboard Tank Lines	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605638	PHILADELPHIA			2/14/1995	EW WEL	0	0	SUMMIT DRILLING CO INC	Seaboard Tank Lines	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605638	PHILADELPHIA			2/14/1995	EW WEL	0	0	SUMMIT DRILLING CO INC	Seaboard Tank Lines	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605639	PHILADELPHIA			2/15/1995	EW WEL	0	0	SUMMIT DRILLING CO INC	Seaboard Tank Lines	MONITORING	INDUSTRIAL		o/PaGWIS			X			
605639	PHILADELPHIA			2/15/1995	EW WEL	0	0	SUMMIT DRILLING CO INC	Seaboard Tank Lines	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605640	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	Sears	WITHDRAWAL	DOMESTIC		o/PaGWIS						X
605640	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	Sears	INJECTION	INDUSTRIAL		o/PaGWIS		X				
605641	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	Sears	INJECTION	INDUSTRIAL		o/PaGWIS		X				
605641	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	Sears	WITHDRAWAL	DOMESTIC		o/PaGWIS						X
605642	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	Sears	INJECTION	INDUSTRIAL		o/PaGWIS		X				
605642	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	Sears	WITHDRAWAL	DOMESTIC		o/PaGWIS						X
605643	PHILADELPHIA			1/30/2003	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sears Logistics	MONITORING	OTHER		o/PaGWIS		X				
605643	PHILADELPHIA			1/30/2003	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sears Logistics	WITHDRAWAL	DOMESTIC		o/PaGWIS						
605644	PHILADELPHIA			1/30/2003	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sears Logistics	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605644	PHILADELPHIA			1/30/2003	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sears Logistics	MONITORING	OTHER		o/PaGWIS		X				
605645	PHILADELPHIA			1/31/2003	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sears Logistics	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605645	PHILADELPHIA			1/31/2003	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sears Logistics	MONITORING	OTHER		o/PaGWIS		X				
605646	PHILADELPHIA			1/30/2003	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sears Logistics	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605646	PHILADELPHIA			1/30/2003	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sears Logistics	MONITORING	OTHER		o/PaGWIS		X				
605647	PHILADELPHIA			1/31/2003	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sears Logistics	MONITORING	OTHER		o/PaGWIS		X				
605647	PHILADELPHIA			1/31/2003	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sears Logistics	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605648	PHILADELPHIA			1/31/2003	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sears Logistics	MONITORING	OTHER		o/PaGWIS		X				
605648	PHILADELPHIA			1/31/2003	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sears Logistics	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605649	PHILADELPHIA			4/1/1991	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605649	PHILADELPHIA			4/1/1991	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	TEST	OTHER		o/PaGWIS		X				
605650	PHILADELPHIA			4/1/1991	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605650	PHILADELPHIA			4/1/1991	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	TEST	OTHER		o/PaGWIS		X				
605651	PHILADELPHIA			4/1/1991	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	TEST	OTHER		o/PaGWIS		X				
605651	PHILADELPHIA			4/1/1991	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605652	PHILADELPHIA			11/2/1992	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	MONITORING	OTHER		o/PaGWIS		X				
605652	PHILADELPHIA			11/2/1992	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605653	PHILADELPHIA			11/3/1992	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	MONITORING	OTHER		o/PaGWIS		X				
605653	PHILADELPHIA			11/3/1992	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605654	PHILADELPHIA			11/4/1992	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605654	PHILADELPHIA			11/4/1992	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	MONITORING	OTHER		o/PaGWIS		X				
605655	PHILADELPHIA			9/1/1994	EW WEL	0	0	SEPTA		MONITORING	OTHER		o/PaGWIS		X				
605655	PHILADELPHIA			9/1/1994	EW WEL	0	0	SEPTA		WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605656	PHILADELPHIA			9/1/1994	EW WEL	0	0	SEPTA		WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605656	PHILADELPHIA			9/1/1994	EW WEL	0	0	SEPTA		MONITORING	OTHER		o/PaGWIS		X				
605657	PHILADELPHIA			9/2/1994	EW WEL	0	0	SEPTA		MONITORING	OTHER		o/PaGWIS		X				
605658	PHILADELPHIA			4/14/1992	EW WEL	0	0	A & H ENVIRONMENTAL	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605658	PHILADELPHIA			4/14/1992	EW WEL	0	0	A & H ENVIRONMENTAL	SEPTA	MONITORING	OTHER		o/PaGWIS		X				
605659	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	MONITORING	OTHER		o/PaGWIS		X				
605659	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605660	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605660	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	MONITORING	OTHER		o/PaGWIS		X				
605661	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	MONITORING	OTHER		o/PaGWIS		X				
605661	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605662	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605662	PHILADELPHIA			#####	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	SEPTA	MONITORING	OTHER		o/PaGWIS		X				
605663	PHILADELPHIA			9/9/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	SEPTA	MONITORING	OTHER		o/PaGWIS		X				
605663	PHILADELPHIA			9/9/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605664	PHILADELPHIA			9/9/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	SEPTA	MONITORING	OTHER		o/PaGWIS		X				
605664	PHILADELPHIA			9/9/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605665	PHILADELPHIA			9/9/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	SEPTA	MONITORING	OTHER		o/PaGWIS		X				
605665	PHILADELPHIA			9/9/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	SEPTA	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605666	PHILADELPHIA			1/26/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	SEPTA Midvale	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605666	PHILADELPHIA			1/26/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	SEPTA Midvale	MONITORING	OTHER		o/PaGWIS		X				
605667	PHILADELPHIA			1/26/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	SEPTA Midvale	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605667	PHILADELPHIA			1/26/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	SEPTA Midvale	MONITORING	OTHER		o/PaGWIS		X				
605668	PHILADELPHIA			1/26/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	SEPTA Midvale	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605668	PHILADELPHIA			1/26/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	SEPTA Midvale	MONITORING	OTHER		o/PaGWIS		X				
605669	PHILADELPHIA			8/31/1998	EW WEL	0	0	SUMMIT DRILLING CO INC	Shops at Chestnut	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605669	PHILADELPHIA			8/31/1998	EW WEL	0	0	SUMMIT DRILLING CO INC	Shops at Chestnut	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605670	PHILADELPHIA			8/31/1998	EW WEL	0	0	SUMMIT DRILLING CO INC	Shops at Chestnut	MONITORING	INDUSTRIAL		o/PaGWIS					X	
605670	PHILADELPHIA			8/31/1998	EW WEL	0	0	SUMMIT DRILLING CO INC	Shops at Chestnut	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605671	PHILADELPHIA			8/31/1998	EW WEL	0	0	SUMMIT DRILLING CO INC	Shops at Chestnut	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605671	PHILADELPHIA			8/31/1998	EW WEL	0	0	SUMMIT DRILLING CO INC	Shops at Chestnut	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605672	PHILADELPHIA			9/4/1998	EW WEL	0	0	SUMMIT DRILLING CO INC	Shops at Chestnut	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605672	PHILADELPHIA			9/4/1998	EW WEL	0	0	SUMMIT DRILLING CO INC	Shops at Chestnut	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605673	PHILADELPHIA			9/23/1998	EW WEL	0	0	SUMMIT DRILLING CO INC	Cannon	MONITORING	INDUSTRIAL		o/PaGWIS		X				

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
605673	PHILADELPHIA			9/23/1998	EW WEL	0	0	SUMMIT DRILLING CO INC	Cannon	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605674	PHILADELPHIA			9/23/1998	EW WEL	0	0	SUMMIT DRILLING CO INC	Cannon	MONITORING	INDUSTRIAL		o/PaGWIS		X			
605674	PHILADELPHIA			9/23/1998	EW WEL	0	0	SUMMIT DRILLING CO INC	Cannon	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605675	PHILADELPHIA			2/11/2003	EW WEL	0	0	THOMAS G KEYES INC	T.G. Keyes Inc	MONITORING	OTHER		o/PaGWIS		X			
605675	PHILADELPHIA			2/11/2003	EW WEL	0	0	THOMAS G KEYES INC	T.G. Keyes Inc	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605676	PHILADELPHIA			2/11/2003	EW WEL	0	0	THOMAS G KEYES INC	T.G. Keyes Inc	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605676	PHILADELPHIA			2/11/2003	EW WEL	0	0	THOMAS G KEYES INC	T.G. Keyes Inc	MONITORING	OTHER		o/PaGWIS		X			
605677	PHILADELPHIA			4/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Stokes Vacuum	MONITORING	OTHER		o/PaGWIS		X			
605677	PHILADELPHIA			4/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Stokes Vacuum	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605678	PHILADELPHIA			4/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Stokes Vacuum	MONITORING	OTHER		o/PaGWIS		X			
605678	PHILADELPHIA			4/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Stokes Vacuum	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605679	PHILADELPHIA			4/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Stokes Vacuum	MONITORING	OTHER		o/PaGWIS		X			
605679	PHILADELPHIA			4/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Stokes Vacuum	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605680	PHILADELPHIA			4/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Stokes Vacuum	MONITORING	OTHER		o/PaGWIS		X			
605680	PHILADELPHIA			4/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Stokes Vacuum	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605681	PHILADELPHIA			9/21/2000	EW WEL	0	0	TALON DRILLING COMPANY	St Peter the Apostle Church	MONITORING	OTHER		o/PaGWIS		X			
605681	PHILADELPHIA			9/21/2000	EW WEL	0	0	TALON DRILLING COMPANY	St Peter the Apostle Church	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605682	PHILADELPHIA			9/21/2000	EW WEL	0	0	TALON DRILLING COMPANY	St Peter the Apostle Church	MONITORING	OTHER		o/PaGWIS		X			
605682	PHILADELPHIA			9/21/2000	EW WEL	0	0	TALON DRILLING COMPANY	St Peter the Apostle Church	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605683	PHILADELPHIA			9/22/2000	EW WEL	0	0	TALON DRILLING COMPANY	St Peter the Apostle Church	MONITORING	OTHER		o/PaGWIS		X			
605683	PHILADELPHIA			9/22/2000	EW WEL	0	0	TALON DRILLING COMPANY	St Peter the Apostle Church	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605684	PHILADELPHIA			9/22/2000	EW WEL	0	0	TALON DRILLING COMPANY	St Peter the Apostle Church	MONITORING	OTHER		o/PaGWIS		X			
605684	PHILADELPHIA			9/22/2000	EW WEL	0	0	TALON DRILLING COMPANY	St Peter the Apostle Church	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605685	PHILADELPHIA			9/22/2000	EW WEL	0	0	TALON DRILLING COMPANY	St Peter the Apostle Church	MONITORING	OTHER		o/PaGWIS		X			
605685	PHILADELPHIA			9/22/2000	EW WEL	0	0	TALON DRILLING COMPANY	St Peter the Apostle Church	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605686	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Stubbs Enterprises	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605686	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Stubbs Enterprises	MONITORING	OTHER		o/PaGWIS		X			
605687	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Stubbs Enterprises	MONITORING	OTHER		o/PaGWIS		X			
605687	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Stubbs Enterprises	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605688	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun	MONITORING	OTHER		o/PaGWIS		X	X		
605688	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605689	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun	MONITORING	OTHER		o/PaGWIS		X			
605689	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605690	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605690	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun	MONITORING	OTHER		o/PaGWIS		X	X		
605691	PHILADELPHIA			3/1/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun-Atlantic Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605691	PHILADELPHIA			3/1/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun-Atlantic Station	MONITORING	OTHER		o/PaGWIS		X	X		
605692	PHILADELPHIA			3/1/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun-Atlantic Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605692	PHILADELPHIA			3/1/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun-Atlantic Station	MONITORING	OTHER		o/PaGWIS		X	X		
605693	PHILADELPHIA			3/1/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun-Atlantic Station	MONITORING	OTHER		o/PaGWIS		X	X		
605693	PHILADELPHIA			3/1/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun-Atlantic Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605694	PHILADELPHIA			3/1/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun-Atlantic Station	MONITORING	OTHER		o/PaGWIS		X	X		
605694	PHILADELPHIA			3/1/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun-Atlantic Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605695	PHILADELPHIA			#####	EW WEL	0	0	RECON ENVIRONMENTAL CORP	Sun Chemical	WITHDRAWAL	DOMESTIC		o/PaGWIS				X	
605695	PHILADELPHIA			#####	EW WEL	0	0	RECON ENVIRONMENTAL CORP	Sun Chemical	MONITORING	INDUSTRIAL		o/PaGWIS		X	X		
605696	PHILADELPHIA			3/24/1992	EW WEL	0	0	SAMUEL STOTHOFF COMPANY INC	Sun Chemical	MONITORING	INDUSTRIAL		o/PaGWIS		X	X		
605696	PHILADELPHIA			3/24/1992	EW WEL	0	0	SAMUEL STOTHOFF COMPANY INC	Sun Chemical	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605697	PHILADELPHIA			3/24/1992	EW WEL	0	0	SAMUEL STOTHOFF COMPANY INC	Sun Chemical	MONITORING	INDUSTRIAL		o/PaGWIS		X	X		
605697	PHILADELPHIA			3/24/1992	EW WEL	0	0	SAMUEL STOTHOFF COMPANY INC	Sun Chemical	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605698	PHILADELPHIA			8/26/1999	EW WEL	0	0	TALON DRILLING COMPANY	Sun Company Inc	MONITORING	DESALINATION		o/PaGWIS		X	X		
605698	PHILADELPHIA			8/26/1999	EW WEL	0	0	TALON DRILLING COMPANY	Sun Company Inc	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605699	PHILADELPHIA			8/26/1999	EW WEL	0	0	TALON DRILLING COMPANY	Sun Company Inc	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605699	PHILADELPHIA			8/26/1999	EW WEL	0	0	TALON DRILLING COMPANY	Sun Company Inc	MONITORING	OTHER		o/PaGWIS		X	X		
605700	PHILADELPHIA			8/26/1999	EW WEL	0	0	TALON DRILLING COMPANY	Sun Company Inc	MONITORING	OTHER		o/PaGWIS		X	X		
605700	PHILADELPHIA			8/26/1999	EW WEL	0	0	TALON DRILLING COMPANY	Sun Company Inc	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605701	PHILADELPHIA			#####	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Sun Marketing/Refining	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605701	PHILADELPHIA			#####	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Sun Marketing/Refining	MONITORING	OTHER		o/PaGWIS		X		X	
605702	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS		X	X		
605702	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605703	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS		X	X		
605703	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605704	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS		X	X		
605704	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605705	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS		X	X		
605705	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605706	PHILADELPHIA			2/1/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Sunoco	MONITORING	OTHER		o/PaGWIS		X	X		
605706	PHILADELPHIA			2/1/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605707	PHILADELPHIA			1/1/1995	EW WEL	0	0	C S GARBER & SONS INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605707	PHILADELPHIA			1/1/1995	EW WEL	0	0	C S GARBER & SONS INC	Sunoco	MONITORING	UNKNOWN		o/PaGWIS		X		X	
605708	PHILADELPHIA			1/1/1995	EW WEL	0	0	C S GARBER & SONS INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605708	PHILADELPHIA			1/1/1995	EW WEL	0	0	C S GARBER & SONS INC	Sunoco	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605709	PHILADELPHIA			1/1/1995	EW WEL	0	0	C S GARBER & SONS INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X		
605709	PHILADELPHIA			1/1/1995	EW WEL	0	0	C S GARBER & SONS INC	Sunoco	MONITORING	UNKNOWN		o/PaGWIS		X	X		
605710	PHILADELPHIA			5/18/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS		X	X		

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information																Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark		Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
605710	PHILADELPHIA			5/18/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605711	PHILADELPHIA			5/18/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS			X	X		
605711	PHILADELPHIA			5/18/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605712	PHILADELPHIA			5/17/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS			X	X		
605712	PHILADELPHIA			5/17/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605713	PHILADELPHIA			5/18/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS			X	X		
605713	PHILADELPHIA			5/18/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605714	PHILADELPHIA			5/19/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS			X	X		
605714	PHILADELPHIA			5/19/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605715	PHILADELPHIA			5/8/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS			X	X		
605715	PHILADELPHIA			5/8/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605716	PHILADELPHIA			5/17/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS			X	X		
605716	PHILADELPHIA			5/17/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605717	PHILADELPHIA			5/17/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS			X	X		
605717	PHILADELPHIA			5/17/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605718	PHILADELPHIA			5/19/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS			X	X		
605718	PHILADELPHIA			5/19/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605719	PHILADELPHIA			5/19/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS			X	X		
605719	PHILADELPHIA			5/19/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605720	PHILADELPHIA			5/17/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS			X	X		
605720	PHILADELPHIA			5/17/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605721	PHILADELPHIA			5/18/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS			X	X		
605721	PHILADELPHIA			5/18/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605722	PHILADELPHIA			5/20/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS			X	X		
605722	PHILADELPHIA			5/20/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605723	PHILADELPHIA			5/20/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS			X	X		
605723	PHILADELPHIA			5/20/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605724	PHILADELPHIA			5/17/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605724	PHILADELPHIA			5/17/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS			X	X		
605725	PHILADELPHIA			5/18/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605725	PHILADELPHIA			5/18/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS			X	X		
605726	PHILADELPHIA			5/19/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS			X	X		
605726	PHILADELPHIA			5/19/1999	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605727	PHILADELPHIA			9/17/2002	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605727	PHILADELPHIA			9/17/2002	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS			X	X		
605728	PHILADELPHIA			12/6/2002	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	INJECTION	OTHER		o/PaGWIS				X		
605728	PHILADELPHIA			12/6/2002	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605729	PHILADELPHIA			7/29/1994	EW WEL	0	0	SALOMONE BROS. INC.	Sunoco	MONITORING	UNKNOWN		o/PaGWIS			X	X		
605729	PHILADELPHIA			7/29/1994	EW WEL	0	0	SALOMONE BROS. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605730	PHILADELPHIA			7/29/1994	EW WEL	0	0	SALOMONE BROS. INC.	Sunoco	MONITORING	UNKNOWN		o/PaGWIS			X	X		
605730	PHILADELPHIA			7/29/1994	EW WEL	0	0	SALOMONE BROS. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605731	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	UNKNOWN	INDUSTRIAL		o/PaGWIS			X	X		
605731	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605732	PHILADELPHIA			9/26/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605732	PHILADELPHIA			9/26/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS			X	X		
605733	PHILADELPHIA			9/26/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605733	PHILADELPHIA			9/26/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS			X	X		
605734	PHILADELPHIA			9/26/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS			X	X		
605734	PHILADELPHIA			9/26/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605735	PHILADELPHIA			9/26/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS			X	X		
605735	PHILADELPHIA			9/26/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605736	PHILADELPHIA			9/26/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS			X	X		
605736	PHILADELPHIA			9/26/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605737	PHILADELPHIA			10/4/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS			X	X		
605737	PHILADELPHIA			10/4/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605738	PHILADELPHIA			10/4/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS			X	X		
605738	PHILADELPHIA			10/4/2001	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605739	PHILADELPHIA			8/16/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS			X	X		
605739	PHILADELPHIA			8/16/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605740	PHILADELPHIA			8/16/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS			X	X		
605740	PHILADELPHIA			8/16/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605741	PHILADELPHIA			8/16/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS			X	X		
605741	PHILADELPHIA			8/16/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605742	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS			X	X		
605742	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605743	PHILADELPHIA			4/5/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS			X	X		
605743	PHILADELPHIA			4/5/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605744	PHILADELPHIA			4/5/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS			X	X		
605744	PHILADELPHIA			4/5/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605745	PHILADELPHIA			9/19/1996	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Sunoco/Atlantic Station	MONITORING	OTHER		o/PaGWIS			X	X		
605745	PHILADELPHIA			9/19/1996	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Sunoco/Atlantic Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605746	PHILADELPHIA			9/19/1996	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Sunoco/Atlantic Station	MONITORING	OTHER		o/PaGWIS			X	X		
605746	PHILADELPHIA			9/19/1996	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Sunoco/Atlantic Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605747	PHILADELPHIA			9/19/1996	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Sunoco/Atlantic Station	MONITORING	OTHER		o/PaGWIS			X	X		



Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information																Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark		Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
605747	PHILADELPHIA			9/19/1996	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Sunoco/Atlantic Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605748	PHILADELPHIA			9/19/1996	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Sunoco/Atlantic Station	MONITORING	OTHER		o/PaGWIS		X	X			
605748	PHILADELPHIA			9/19/1996	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Sunoco/Atlantic Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605749	PHILADELPHIA			9/19/1996	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Sunoco/Atlantic Station	MONITORING	OTHER		o/PaGWIS		X	X			
605749	PHILADELPHIA			9/19/1996	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Sunoco/Atlantic Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605750	PHILADELPHIA			#####	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	UNKNOWN		o/PaGWIS		X	X			
605750	PHILADELPHIA			#####	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605751	PHILADELPHIA			#####	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	DESALINATION		o/PaGWIS		X	X			
605751	PHILADELPHIA			#####	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605752	PHILADELPHIA			#####	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS		X	X			
605752	PHILADELPHIA			#####	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605753	PHILADELPHIA			#####	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS		X	X			
605753	PHILADELPHIA			#####	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605754	PHILADELPHIA			9/9/2005	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS		X	X			
605754	PHILADELPHIA			9/9/2005	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605755	PHILADELPHIA			11/5/2004	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605755	PHILADELPHIA			11/5/2004	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	UNKNOWN	UNKNOWN		o/PaGWIS			X			
605756	PHILADELPHIA			11/5/2004	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	UNKNOWN	UNKNOWN		o/PaGWIS			X			
605756	PHILADELPHIA			11/5/2004	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605757	PHILADELPHIA			11/5/2004	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605757	PHILADELPHIA			11/5/2004	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS		X	X			
605758	PHILADELPHIA			4/6/2006	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	MONITORING	OTHER		o/PaGWIS		X	X			
605758	PHILADELPHIA			4/6/2006	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605759	PHILADELPHIA			7/14/1998	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco Service Station	MONITORING	INDUSTRIAL		o/PaGWIS		X	X			
605759	PHILADELPHIA			7/14/1998	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605760	PHILADELPHIA			7/14/1998	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco Service Station	MONITORING	INDUSTRIAL		o/PaGWIS		X	X			
605760	PHILADELPHIA			7/14/1998	EW WEL	0	0	SUMMIT DRILLING CO INC	Sunoco Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605761	PHILADELPHIA			9/18/1996	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Sunoco Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605761	PHILADELPHIA			9/18/1996	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Sunoco Service Station	MONITORING	OTHER		o/PaGWIS		X	X			
605762	PHILADELPHIA			#####	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Sunoco Oil Co	MONITORING	OTHER		o/PaGWIS		X	X			
605762	PHILADELPHIA			#####	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Sunoco Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605763	PHILADELPHIA			#####	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Sunoco Oil Co	MONITORING	OTHER		o/PaGWIS		X	X			
605763	PHILADELPHIA			#####	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Sunoco Oil Co	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605764	PHILADELPHIA			3/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Refining and Marketin	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605764	PHILADELPHIA			3/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Refining and Marketin	MONITORING	UNKNOWN		o/PaGWIS		X	X			
605765	PHILADELPHIA			3/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Refining and Marketin	MONITORING	UNKNOWN		o/PaGWIS		X	X			
605765	PHILADELPHIA			3/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Refining and Marketin	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605766	PHILADELPHIA			3/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco Refining and Marketin	MONITORING	UNKNOWN		o/PaGWIS		X	X			
605766	PHILADELPHIA			3/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco Refining and Marketin	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605767	PHILADELPHIA			3/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco Refining and Marketin	MONITORING	UNKNOWN		o/PaGWIS		X	X			
605767	PHILADELPHIA			3/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco Refining and Marketin	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605768	PHILADELPHIA			3/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco Refining and Marketin	MONITORING	UNKNOWN		o/PaGWIS		X	X			
605768	PHILADELPHIA			3/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sunoco Refining and Marketin	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605769	PHILADELPHIA			3/31/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Sunoco Refining and Marketin	TEST	UNKNOWN		o/PaGWIS		X	X			
605769	PHILADELPHIA			3/31/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Sunoco Refining and Marketin	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605770	PHILADELPHIA			3/31/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Sunoco Refining and Marketin	TEST	UNKNOWN		o/PaGWIS		X	X			
605770	PHILADELPHIA			3/31/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Sunoco Refining and Marketin	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605771	PHILADELPHIA			3/31/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Sunoco Refining and Marketin	TEST	UNKNOWN		o/PaGWIS		X	X			
605771	PHILADELPHIA			3/31/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Sunoco Refining and Marketin	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605772	PHILADELPHIA			3/31/1996	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Sunoco Refining and Marketin	TEST	UNKNOWN		o/PaGWIS		X	X			
605772	PHILADELPHIA			3/31/1996	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Sunoco Refining and Marketin	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605773	PHILADELPHIA			3/31/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Sunoco Refining and Marketin	TEST	UNKNOWN		o/PaGWIS		X	X			
605773	PHILADELPHIA			3/31/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Sunoco Refining and Marketin	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605774	PHILADELPHIA			3/31/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Sunoco Refining and Marketin	TEST	UNKNOWN		o/PaGWIS		X	X			
605774	PHILADELPHIA			3/31/1992	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Sunoco Refining and Marketin	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605775	PHILADELPHIA			10/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	UNKNOWN		o/PaGWIS		X	X			
605775	PHILADELPHIA			10/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605776	PHILADELPHIA			10/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605776	PHILADELPHIA			10/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	UNKNOWN		o/PaGWIS		X	X			
605777	PHILADELPHIA			10/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	UNKNOWN		o/PaGWIS		X	X			
605777	PHILADELPHIA			10/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605778	PHILADELPHIA			10/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605778	PHILADELPHIA			10/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	UNKNOWN		o/PaGWIS		X	X			
605779	PHILADELPHIA			10/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	UNKNOWN		o/PaGWIS		X	X			
605779	PHILADELPHIA			10/1/1989	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605780	PHILADELPHIA			10/1/1990	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	UNKNOWN		o/PaGWIS		X	X			
605780	PHILADELPHIA			10/1/1990	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605781	PHILADELPHIA			10/1/1990	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	UNKNOWN		o/PaGWIS		X	X			
605781	PHILADELPHIA			10/1/1990	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605782	PHILADELPHIA			7/1/1992	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605782	PHILADELPHIA			7/1/1992	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS		X	X			
605783	PHILADELPHIA			6/2/1994	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605783	PHILADELPHIA			6/2/1994	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS		X	X			
605784	PHILADELPHIA			6/2/1994	EW WEL	0	0	B.L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS		X	X			

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information																Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark		Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
605784	PHILADELPHIA			6/2/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605785	PHILADELPHIA			6/2/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605785	PHILADELPHIA			6/2/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605786	PHILADELPHIA			9/28/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605786	PHILADELPHIA			9/28/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605787	PHILADELPHIA			9/28/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605787	PHILADELPHIA			9/28/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605788	PHILADELPHIA			9/28/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605788	PHILADELPHIA			9/28/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605789	PHILADELPHIA			11/1/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605789	PHILADELPHIA			11/1/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605790	PHILADELPHIA			11/1/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605790	PHILADELPHIA			11/1/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605791	PHILADELPHIA			11/1/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605791	PHILADELPHIA			11/1/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605792	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605792	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605793	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605793	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605794	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605794	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605795	PHILADELPHIA			3/3/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	DESALINATION		o/PaGWIS			X	X		
605795	PHILADELPHIA			3/3/1993	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605796	PHILADELPHIA			9/20/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605796	PHILADELPHIA			9/20/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605797	PHILADELPHIA			9/22/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605797	PHILADELPHIA			9/22/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605798	PHILADELPHIA			9/20/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605798	PHILADELPHIA			9/20/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605799	PHILADELPHIA			11/2/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605799	PHILADELPHIA			11/2/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605800	PHILADELPHIA			11/2/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605800	PHILADELPHIA			11/2/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605801	PHILADELPHIA			11/2/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605801	PHILADELPHIA			11/2/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605802	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605802	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605803	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605803	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605804	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605804	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605805	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605805	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605806	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605806	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605807	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605807	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605808	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605808	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605809	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605809	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605810	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605810	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605811	PHILADELPHIA			9/16/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605811	PHILADELPHIA			9/16/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605812	PHILADELPHIA			9/16/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605812	PHILADELPHIA			9/16/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605813	PHILADELPHIA			9/16/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	MONITORING	OTHER		o/PaGWIS			X	X		
605813	PHILADELPHIA			9/16/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Sun Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605814	PHILADELPHIA			10/1/1990	EW WEL	0	0	AC SCHULTES INC	Tasty Baking Co	UNKNOWN	OTHER		o/PaGWIS					X	
605814	PHILADELPHIA			10/1/1990	EW WEL	0	0	AC SCHULTES INC	Tasty Baking Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605815	PHILADELPHIA			10/1/1990	EW WEL	0	0	AC SCHULTES INC	Tasty Baking Co	MONITORING	OTHER		o/PaGWIS			X			
605815	PHILADELPHIA			10/1/1990	EW WEL	0	0	AC SCHULTES INC	Tasty Baking Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605816	PHILADELPHIA			10/1/1990	EW WEL	0	0	AC SCHULTES INC	Tasty Baking Co	MONITORING	OTHER		o/PaGWIS			X			
605816	PHILADELPHIA			10/1/1990	EW WEL	0	0	AC SCHULTES INC	Tasty Baking Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605817	PHILADELPHIA			12/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	BP Terminal	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605817	PHILADELPHIA			12/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	BP Terminal	MONITORING	OTHER		o/PaGWIS			X	X		
605818	PHILADELPHIA			12/1/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	BP Terminal	UNKNOWN	OTHER		o/PaGWIS				X		
605818	PHILADELPHIA			12/1/1994	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	BP Terminal	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605819	PHILADELPHIA			6/3/1991	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	The Lannette Co	MONITORING	OTHER		o/PaGWIS			X			
605819	PHILADELPHIA			6/3/1991	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	The Lannette Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605820	PHILADELPHIA			6/3/1991	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	The Lannette Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605820	PHILADELPHIA			6/3/1991	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	The Lannette Co	MONITORING	OTHER		o/PaGWIS			X			
605821	PHILADELPHIA			6/4/1991	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	The Lannette Co	MONITORING	OTHER		o/PaGWIS			X			

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information																Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark		Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
605821	PHILADELPHIA			6/4/1991	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	The Lannette Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605822	PHILADELPHIA			6/4/1991	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	The Lannette Co	MONITORING	OTHER		o/PaGWIS		X				
605822	PHILADELPHIA			6/4/1991	EW WEL	0	0	PLAINFIELD WELL DRILLING CO	The Lannette Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605823	PHILADELPHIA			2/15/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Timms	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605823	PHILADELPHIA			2/15/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Timms	MONITORING	OTHER		o/PaGWIS		X				
605824	PHILADELPHIA			2/14/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Timms	MONITORING	OTHER		o/PaGWIS		X				
605824	PHILADELPHIA			2/14/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Timms	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605825	PHILADELPHIA			2/15/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Timms	MONITORING	OTHER		o/PaGWIS		X				
605825	PHILADELPHIA			2/15/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Timms	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605826	PHILADELPHIA			4/1/1989	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Transcor	MONITORING	UNKNOWN		o/PaGWIS		X				
605826	PHILADELPHIA			4/1/1989	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Transcor	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605827	PHILADELPHIA			3/9/1993	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	Tuckers Amoco	MONITORING	UNKNOWN		o/PaGWIS		X				
605827	PHILADELPHIA			3/9/1993	EW WEL	0	0	J E FRITTS & ASSOCIATES INCORPO	Tuckers Amoco	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605828	PHILADELPHIA			5/1/1993	EW WEL	0	0	AC SCHULTES INC	U-Haul	MONITORING	OTHER		o/PaGWIS		X				
605828	PHILADELPHIA			5/1/1993	EW WEL	0	0	AC SCHULTES INC	U-Haul	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605829	PHILADELPHIA			5/1/1993	EW WEL	0	0	AC SCHULTES INC	U-Haul	MONITORING	OTHER		o/PaGWIS		X				
605829	PHILADELPHIA			5/1/1993	EW WEL	0	0	AC SCHULTES INC	U-Haul	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605830	PHILADELPHIA			5/1/1993	EW WEL	0	0	AC SCHULTES INC	U-Haul	MONITORING	OTHER		o/PaGWIS		X				
605830	PHILADELPHIA			5/1/1993	EW WEL	0	0	AC SCHULTES INC	U-Haul	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605831	PHILADELPHIA			6/23/1990	EW WEL	0	0	MCGINNIS DRILLING	University Science Center	MONITORING	UNKNOWN		o/PaGWIS		X				
605831	PHILADELPHIA			6/23/1990	EW WEL	0	0	MCGINNIS DRILLING	University Science Center	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605832	PHILADELPHIA			6/23/1990	EW WEL	0	0	MCGINNIS DRILLING	University Science Center	MONITORING	UNKNOWN		o/PaGWIS		X				
605832	PHILADELPHIA			6/23/1990	EW WEL	0	0	MCGINNIS DRILLING	University Science Center	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605833	PHILADELPHIA			6/25/1990	EW WEL	0	0	MCGINNIS DRILLING	University Science Center	MONITORING	UNKNOWN		o/PaGWIS		X				
605833	PHILADELPHIA			6/25/1990	EW WEL	0	0	MCGINNIS DRILLING	University Science Center	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605834	PHILADELPHIA			6/25/1990	EW WEL	0	0	MCGINNIS DRILLING	University Science Center	MONITORING	UNKNOWN		o/PaGWIS		X				
605834	PHILADELPHIA			6/25/1990	EW WEL	0	0	MCGINNIS DRILLING	University Science Center	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605835	PHILADELPHIA			3/28/2000	EW WEL	0	0	EAST COAST DRILLING INC	U.S. Dept of the Navy	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605835	PHILADELPHIA			3/28/2000	EW WEL	0	0	EAST COAST DRILLING INC	U.S. Dept of the Navy	MONITORING	UNKNOWN		o/PaGWIS		X				
605836	PHILADELPHIA			3/29/2000	EW WEL	0	0	EAST COAST DRILLING INC	U.S. Dept of the Navy	MONITORING	UNKNOWN		o/PaGWIS		X				
605836	PHILADELPHIA			3/29/2000	EW WEL	0	0	EAST COAST DRILLING INC	U.S. Dept of the Navy	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605837	PHILADELPHIA			3/28/2000	EW WEL	0	0	EAST COAST DRILLING INC	U.S. Dept of the Navy	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605837	PHILADELPHIA			3/28/2000	EW WEL	0	0	EAST COAST DRILLING INC	U.S. Dept of the Navy	MONITORING	UNKNOWN		o/PaGWIS		X				
605838	PHILADELPHIA			3/28/2000	EW WEL	0	0	EAST COAST DRILLING INC	U.S. Dept of the Navy	MONITORING	UNKNOWN		o/PaGWIS		X				
605838	PHILADELPHIA			3/28/2000	EW WEL	0	0	EAST COAST DRILLING INC	U.S. Dept of the Navy	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605839	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	USPS	MONITORING	OTHER		o/PaGWIS		X				
605839	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	USPS	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605840	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	USPS	MONITORING	OTHER		o/PaGWIS		X				
605840	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	USPS	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605841	PHILADELPHIA			4/1/1991	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Valley Forge Ind Co	TEST	OTHER		o/PaGWIS		X				
605841	PHILADELPHIA			4/1/1991	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Valley Forge Ind Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605842	PHILADELPHIA			4/1/1991	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Valley Forge Ind Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605842	PHILADELPHIA			4/1/1991	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Valley Forge Ind Co	TEST	OTHER		o/PaGWIS		X				
605843	PHILADELPHIA			4/1/1991	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Valley Forge Ind Co	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605843	PHILADELPHIA			4/1/1991	EW WEL	0	0	A LEXANDER MACPHEE-CVM INDU	Valley Forge Ind Co	TEST	OTHER		o/PaGWIS		X				
605844	PHILADELPHIA			4/10/2006	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	Versar Inc.	MONITORING	UNKNOWN		o/PaGWIS		X				
605844	PHILADELPHIA			4/10/2006	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	Versar Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605845	PHILADELPHIA			4/10/2006	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	Versar Inc.	MONITORING	UNKNOWN		o/PaGWIS		X				
605845	PHILADELPHIA			4/10/2006	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	Versar Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605846	PHILADELPHIA			4/10/2006	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	Versar Inc.	MONITORING	UNKNOWN		o/PaGWIS		X				
605846	PHILADELPHIA			4/10/2006	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	Versar Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605847	PHILADELPHIA			4/11/2006	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	Versar Inc.	MONITORING	UNKNOWN		o/PaGWIS		X				
605847	PHILADELPHIA			4/11/2006	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	Versar Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605848	PHILADELPHIA			4/11/2006	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	Versar Inc.	MONITORING	UNKNOWN		o/PaGWIS		X				
605848	PHILADELPHIA			4/11/2006	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	Versar Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605849	PHILADELPHIA			4/11/2006	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	Versar Inc.	MONITORING	UNKNOWN		o/PaGWIS		X				
605849	PHILADELPHIA			4/11/2006	EW WEL	0	0	ENVIRONMENTAL MANAGEMENT	Versar Inc.	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605850	PHILADELPHIA			7/24/2002	EW WEL	0	0	WALTON CORPORATION	Vets Stadium	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605850	PHILADELPHIA			7/24/2002	EW WEL	0	0	WALTON CORPORATION	Vets Stadium	MONITORING	UNKNOWN		o/PaGWIS		X				
605851	PHILADELPHIA			7/1/1990	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	VMF Body Shop	MONITORING	UNKNOWN		o/PaGWIS		X				
605851	PHILADELPHIA			7/1/1990	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	VMF Body Shop	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605852	PHILADELPHIA			7/1/1990	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	VMF Body Shop	MONITORING	UNKNOWN		o/PaGWIS		X				
605852	PHILADELPHIA			7/1/1990	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	VMF Body Shop	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605853	PHILADELPHIA			7/1/1990	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	VMF Body Shop	MONITORING	UNKNOWN		o/PaGWIS		X				
605853	PHILADELPHIA			7/1/1990	EW WEL	0	0	COOK ENVIRONMENTAL SERVICES	VMF Body Shop	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605854	PHILADELPHIA			1/13/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Wawa	MONITORING	OTHER		o/PaGWIS		X				
605854	PHILADELPHIA			1/13/2005	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Wawa	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605855	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Wawa	MONITORING	OTHER		o/PaGWIS		X				
605855	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Wawa	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605856	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Wawa	MONITORING	OTHER		o/PaGWIS		X				
605856	PHILADELPHIA			#####	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Wawa	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605857	PHILADELPHIA			7/1/2005	EW WEL	0	0	CS GARBER & SONS INC	Z Bros Sunoco	MONITORING	OTHER		o/PaGWIS		X				
605857	PHILADELPHIA			7/1/2005	EW WEL	0	0	CS GARBER & SONS INC	Z Bros Sunoco	MONITORING	UNKNOWN		o/PaGWIS		X				
605857	PHILADELPHIA			7/1/2005	EW WEL	0	0	CS GARBER & SONS INC	Z Bros Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information																Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark		Well excluded based on WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based on location outside search radius
605858	PHILADELPHIA			7/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Z Bros Sunoco	MONITORING	UNKNOWN		o/PaGWIS		X				
605858	PHILADELPHIA			7/1/2005	EW WEL	0	0	C S GARBER & SONS INC	Z Bros Sunoco	WITHDRAWAL	DOMESTIC		o/PaGWIS					X	
605859	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X			
605859	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605860	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X			
605860	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605861	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X			
605861	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605862	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	MONITORING	OTHER		o/PaGWIS		X	X			
605862	PHILADELPHIA			2/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Mobil Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605863	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Amoco Service Station	MONITORING	UNKNOWN		o/PaGWIS		X	X			
605863	PHILADELPHIA			#####	EW WEL	0	0	AMERIDRILL INC.	Amoco Service Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605864	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	CVS Drug Store	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605864	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	CVS Drug Store	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605865	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	CVS Drug Store	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605865	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	CVS Drug Store	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605866	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	CVS Drug Store	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605866	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	CVS Drug Store	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605867	PHILADELPHIA			1/9/1997	EW WEL	0	0	SUMMIT DRILLING CO INC	CVS Drug Store	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605867	PHILADELPHIA			1/9/1997	EW WEL	0	0	SUMMIT DRILLING CO INC	CVS Drug Store	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605868	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	CVS Drug Store	MONITORING	INDUSTRIAL		o/PaGWIS		X				
605868	PHILADELPHIA			#####	EW WEL	0	0	SUMMIT DRILLING CO INC	CVS Drug Store	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605869	PHILADELPHIA			9/28/1995	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Jiffy Lube	MONITORING	OTHER		o/PaGWIS		X				
605869	PHILADELPHIA			9/28/1995	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Jiffy Lube	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605870	PHILADELPHIA			9/28/1995	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Jiffy Lube	MONITORING	OTHER		o/PaGWIS		X				
605870	PHILADELPHIA			9/28/1995	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Jiffy Lube	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605871	PHILADELPHIA			9/28/1995	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Jiffy Lube	MONITORING	OTHER		o/PaGWIS		X				
605871	PHILADELPHIA			9/28/1995	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Jiffy Lube	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605872	PHILADELPHIA			5/23/1991	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605873	PHILADELPHIA			5/23/1991	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605874	PHILADELPHIA			5/23/1991	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605875	PHILADELPHIA			5/23/1991	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605876	PHILADELPHIA			5/23/1991	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605877	PHILADELPHIA			5/23/1991	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605878	PHILADELPHIA			5/23/1991	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605879	PHILADELPHIA			5/23/1991	EW WEL	0	0	HANDEX CONSULTING & REMEDIA	Amoco Oil	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605880	PHILADELPHIA			8/6/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	City of Philadelphia	MONITORING	OTHER		o/PaGWIS		X				
605880	PHILADELPHIA			8/6/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	City of Philadelphia	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605881	PHILADELPHIA			4/29/1997	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Exxon Serv Station	MONITORING	OTHER		o/PaGWIS		X	X			
605881	PHILADELPHIA			4/29/1997	EW WEL	0	0	LUTZ ENVIRONMENTAL CO. INC.	Exxon Serv Station	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
605882	PHILADELPHIA			8/9/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Frankford Creek Partners	MONITORING	OTHER		o/PaGWIS		X				
605882	PHILADELPHIA			8/9/2006	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Frankford Creek Partners	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605883	PHILADELPHIA			4/20/2005	EW WEL	0	0	AMERIDRILL INC.	Korman	MONITORING	OTHER		o/PaGWIS		X				
605883	PHILADELPHIA			4/20/2005	EW WEL	0	0	AMERIDRILL INC.	Korman	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605884	PHILADELPHIA			4/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	MONITORING	OTHER		o/PaGWIS		X				
605884	PHILADELPHIA			4/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605885	PHILADELPHIA			4/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	MONITORING	OTHER		o/PaGWIS		X				
605886	PHILADELPHIA			4/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	MONITORING	OTHER		o/PaGWIS		X				
605886	PHILADELPHIA			4/1/1992	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605887	PHILADELPHIA			6/7/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605887	PHILADELPHIA			6/7/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	MONITORING	OTHER		o/PaGWIS		X				
605888	PHILADELPHIA			6/7/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	MONITORING	OTHER		o/PaGWIS		X				
605888	PHILADELPHIA			6/7/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605889	PHILADELPHIA			6/7/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	MONITORING	OTHER		o/PaGWIS		X				
605890	PHILADELPHIA			6/7/1996	EW WEL	0	0	B L MYERS BROS. OF PA. INC.	Merit Station	WITHDRAWAL	DOMESTIC		o/PaGWIS				X		
605929	PHILADELPHIA			6/26/1992	EW WEL	0	0	TABASCO DRILLING CORPORATION	B.P. Oil Co.	MONITORING	OTHER		o/PaGWIS		X	X			
605929	PHILADELPHIA			6/26/1992	EW WEL	0	0	TABASCO DRILLING CORPORATION	B.P. Oil Co.	WITHDRAWAL	DOMESTIC		o/PaGWIS			X			
616914	PHILADELPHIA	PHILADELPHIA NAVAL BASE	19145	6/25/2008	ABANDON	39.89971	-75.20306	EICHELBERGERS INC.	US NAVY	ABANDONED	UNUSED			MATERIALS USED TO ABANDON 48quot; WELL: 94 LBS	X				
616998	PHILADELPHIA	PHILADELPHIA NAVAL BASE	19145	6/25/2008	ABANDON	39.89972	-75.20306	EICHELBERGERS INC.	US NAVY	ABANDONED	UNUSED			MATERIALS USED TO ABANDON 48quot; WELL: 94 LBS	X				
616999	PHILADELPHIA	PHILADELPHIA NAVAL BASE	19145	6/25/2008	ABANDON	39.89972	-75.20306	EICHELBERGERS INC.	US NAVY	ABANDONED	UNUSED			MATERIALS USED TO ABANDON 48quot; WELL: 120 LBS	X				
617000	PHILADELPHIA	PHILADELPHIA NAVAL BASE	19145	6/25/2008	ABANDON	39.89972	-75.20307	EICHELBERGERS INC.	US NAVY	ABANDONED	UNUSED			MATERIALS USED TO ABANDON 48quot; WELL: 120 LBS	X				
617001	PHILADELPHIA	PHILADELPHIA NAVAL BASE	19145	6/25/2008	ABANDON	39.89971	-75.20306	EICHELBERGERS INC.	US NAVY	ABANDONED	UNUSED			MATERIALS USED TO ABANDON 48quot; WELL: 75 LBS	X				
617002	PHILADELPHIA	PHILADELPHIA NAVAL BASE	19145	6/25/2008	ABANDON	39.89972	-75.20307	EICHELBERGERS INC.	US NAVY	ABANDONED	UNUSED			MATERIALS USED TO ABANDON 48quot; WELL: 75 LBS	X				
617003	PHILADELPHIA	PHILADELPHIA NAVAL BASE	19145	6/25/2008	ABANDON	39.89972	-75.20306	EICHELBERGERS INC.	US NAVY	ABANDONED	UNUSED			MATERIALS USED TO ABANDON 48quot; WELL: 94 LBS	X				
618280	PHILADELPHIA	PHILADELPHIA NAVAL BASE	19145	6/25/2008	ABANDON	39.89973	-75.20307	EICHELBERGERS INC.	US NAVY	ABANDONED	UNUSED			MATERIALS USED TO ABANDON 28quot; WELL: 47 LBS	X				
618281	PHILADELPHIA	PHILADELPHIA NAVAL BASE	19145	6/25/2008	ABANDON	39.89972	-75.20306	EICHELBERGERS INC.	US NAVY	ABANDONED	UNUSED			MATERIALS USED TO ABANDON 28quot; WELL: 47 LBS	X				
618282	PHILADELPHIA	PHILADELPHIA NAVAL BASE	19145	6/25/2008	ABANDON	39.89972	-75.20307	EICHELBERGERS INC.	US NAVY	ABANDONED	UNUSED			MATERIALS USED TO ABANDON 48quot; WELL: 120 LBS	X				
618283	PHILADELPHIA	PHILADELPHIA NAVAL BASE	19145	6/25/2008	ABANDON	39.89973	-75.20305	EICHELBERGERS INC.	US NAVY	ABANDONED	UNUSED			MATERIALS USED TO ABANDON 48quot; WELL: 75 LBS	X				
618284	PHILADELPHIA	PHILADELPHIA NAVAL BASE	19145	6/25/2008	ABANDON	39.89972	-75.20305	EICHELBERGERS INC.	US NAVY	ABANDONED	UNUSED			MATERIALS USED TO ABANDON 48quot; WELL: 140 LBS	X				
618285	PHILADELPHIA	PHILADELPHIA NAVAL BASE	19145	6/25/2008	ABANDON	39.89972	-75.20306	EICHELBERGERS INC.	US NAVY	ABANDONED	UNUSED			MATERIALS USED TO ABANDON 48quot; WELL: 140 LBS	X				
619958	PHILADELPHIA	2822 W Porter St	19145	6/29/2015	EW WEL	39.92231	-75.1949	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-15 2 Inch PVC x 33 Feet Deep w/3 F	X	X			
619959	PHILADELPHIA	2822 W Porter St	19145	6/29/2015	EW WEL	39.92249	-75.19487	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-16 2 Inch PVC x 33 Feet Deep w/3 F	X	X			
619960	PHILADELPHIA	2830 Ernest St	19145	6/22/2015	EW WEL	39.92187	-75.19497	EAST COAST DRILLING INC	Philadelphia		UNUSED			Air Sparge Well AS-072&quot; PVC x 31&#39;&#39;39; 39; 04	X				

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based on WellUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based on location outside search radius
619967	PHILADELPHIA	2822 W Porter St	19145	6/23/2015	EW WEL	39.92257	-75.1944	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-24 2 Inch PVC x 33 Feet Deep w/3 F	X	X		
619968	PHILADELPHIA	2820 W Porter St	19145	6/23/2015	EW WEL	39.92255	-75.19433	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-25 2 Inch PVC x 33 Feet Deep w/3 F	X	X		
619969	PHILADELPHIA	2820 W Porter St	19145	6/18/2015	EW WEL	39.92258	-75.1943	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-27 2 Inch PVC x 33 Feet Deep w/3 F	X	X		
619970	PHILADELPHIA	2818 W Porter St	19145	6/17/2015	EW WEL	39.92263	-75.19419	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-28 2 Inch PVC x 33 Feet Deep w/3 F	X	X		
619971	PHILADELPHIA	2822 W Porter St	19145	6/16/2015	EW WEL	39.92279	-75.19445	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-31 2 Inch PVC x 33 Feet Deep w/3 F	X	X		
619972	PHILADELPHIA	2401 S 28th St	19145	6/12/2015	EW WEL	39.92298	-75.19397	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-32 2 Inch PVC x 33 Feet Deep w/3 F	X	X		
619973	PHILADELPHIA	2401 S 28th St	19145	6/17/2015	EW WEL	39.92304	-75.19408	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-34 2 Inch PVC x 33 Feet Deep w/3 F	X	X		
619974	PHILADELPHIA	2401 S 28th St	19145	6/11/2015	EW WEL	39.92314	-75.19405	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-35 2 Inch PVC x 33 Feet Deep w/3 F	X	X		
619975	PHILADELPHIA	2401 S 28th St	19145	6/11/2015	EW WEL	39.92321	-75.19385	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-36 2 Inch PVC x 33 Feet Deep w/3 F	X	X		
619979	PHILADELPHIA	2521 S Newkirk St	19145	6/15/2015	EW WEL	39.92138	-75.1951	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-01 2 Inch PVC x 33 Feet Deep w/3 F	X	X		
619980	PHILADELPHIA	2519 S Newkirk St	19145	6/16/2015	EW WEL	39.92146	-75.19508	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-02 2 Inch PVC x 35 Feet Deep w/3 F	X	X		
620002	PHILADELPHIA	2830 Ernest St	19145	6/24/2015	EW WEL	39.92203	-75.19494	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-10 2 Inch PVC x 32 Feet Deep w/3 F	X	X		
620003	PHILADELPHIA	2830 Ernest St	19145	6/25/2015	EW WEL	39.92225	-75.19493	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-12 2 Inch PVC x 32 Feet Deep w/3 F	X	X		
620038	PHILADELPHIA	2830 Ernest St	19145	6/23/2015	EW WEL	39.92197	-75.19494	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-09 2 Inch PVC x 30.5 Feet Deep w/3 F	X	X		
620048	PHILADELPHIA	2830 Ernest St	19145	6/24/2015	EW WEL	39.92216	-75.19493	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-11 2 Inch PVC x 30 Feet Deep w/3 F	X	X		
620050	PHILADELPHIA	2830 Ernest St	19145	6/23/2015	EW WEL	39.9219	-75.19499	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-08 2 Inch PVC x 31.5 Feet Deep w/3 F	X	X		
620051	PHILADELPHIA	2822 W Porter St	19145	6/30/2015	EW WEL	39.92266	-75.19467	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-19 2 Inch PVC x 33 Feet Deep w/3 F	X	X		
620055	PHILADELPHIA	2830 Ernest St	19145	6/18/2015	EW WEL	39.92216	-75.19504	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-04 2 Inch PVC x 33 Feet Deep w/3 F	X	X		
620056	PHILADELPHIA	2830 Ernest St	19145	6/19/2015	EW WEL	39.92175	-75.195	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-06 2 Inch PVC x 33 Feet Deep w/3 F	X	X		
620057	PHILADELPHIA	2830 Ernest St	19145	6/26/2015	EW WEL	39.92217	-75.19492	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-13 2 Inch PVC x 31 Feet Deep w/3 F	X	X		
620059	PHILADELPHIA	2830 Ernest St	19145	6/26/2015	EW WEL	39.92227	-75.19492	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-14 2 Inch PVC x 31 Feet Deep w/3 F	X	X		
620064	PHILADELPHIA	2830 Ernest St	19145	6/19/2015	EW WEL	39.92169	-75.19503	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-05 2 Inch PVC x 34 Feet Deep w/3 F	X	X		
620068	PHILADELPHIA	2818 W Porter St	19145	6/12/2015	EW WEL	39.92297	-75.19414	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-32 2 Inch PVC x 33 Feet Deep w/3 F	X	X		
620069	PHILADELPHIA	2401 S 28th St	19145	6/10/2015	EW WEL	39.92336	-75.19383	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-37 2 Inch PVC x 34 Feet Deep w/3 F	X	X		
620070	PHILADELPHIA	2401 S 28th St	19145	6/10/2015	EW WEL	39.92333	-75.19389	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-38 2 Inch PVC x 34 Feet Deep w/3 F	X	X		
620071	PHILADELPHIA	2822 W Porter St	19145	6/26/2015	EW WEL	39.92262	-75.19447	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-21 2 Inch PVC x 35.5 Feet Deep w/3 F	X	X		
620078	PHILADELPHIA	2511 S Newkirk St	19145	6/17/2015	EW WEL	39.92154	-75.19506	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-03 2 Inch PVC x 34 Feet Deep w/3 F	X	X		
620079	PHILADELPHIA	2814 W Porter St	19145	6/17/2015	EW WEL	39.92274	-75.1941	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-29 2 Inch PVC x 33 Feet Deep w/3 F	X	X		
620080	PHILADELPHIA	2814 W Porter St	19145	6/16/2015	EW WEL	39.92271	-75.19409	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-30 2 Inch PVC x 33 Feet Deep w/3 F	X	X		
620090	PHILADELPHIA	2822 W Porter St	19145	6/29/2015	EW WEL	39.92262	-75.19458	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-20 2 Inch PVC x 33 Feet Deep w/3 F	X	X		
620277	PHILADELPHIA	2830 Ernest St	19145	6/22/2015	EW WEL	39.92199	-75.19494	EAST COAST DRILLING INC	Gas Works		UNUSED			Soil Vapor Extraction Well SVE-02 2 Inch PVC x 20 Feet	X	X		
620278	PHILADELPHIA	2830 Ernest St	19145	6/25/2015	EW WEL	39.92219	-75.19492	EAST COAST DRILLING INC	Gas Works		UNUSED			Soil Vapor Extraction Well SVE-03 2 Inch PVC x 18.5 Feet	X	X		
620291	PHILADELPHIA	2818 W Porter St	19145	6/25/2015	EW WEL	39.92258	-75.19427	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-22 2 Inch PVC x 34 Feet Deep w/3 F	X	X		
620292	PHILADELPHIA	2822 W Porter St	19145	6/25/2015	EW WEL	39.92259	-75.19439	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-23 2 Inch PVC x 32 Feet Deep w/3 F	X	X		
620293	PHILADELPHIA	2818 W Porter St	19145	6/22/2015	EW WEL	39.92258	-75.19419	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-26 2 Inch PVC x 35.5 Feet Deep w/3 F	X	X		
620294	PHILADELPHIA	2822 W Porter St	19145	6/30/2015	EW WEL	39.9226	-75.19474	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-18 2 Inch PVC x 35.5 Feet Deep w/3 F	X	X		
620300	PHILADELPHIA	2822 W Porter St	19145	6/30/2015	EW WEL	39.92242	-75.19491	EAST COAST DRILLING INC	Gas Works		UNUSED			Soil Vapor Extraction Well SVE-04 2 Inch PVC x 22 Feet	X	X		
620301	PHILADELPHIA	2822 W Porter St	19145	6/26/2015	EW WEL	39.92265	-75.1946	EAST COAST DRILLING INC	Gas Works		UNUSED			Soil Vapor Extraction Well SVE-05 2 Inch PVC x 21 Feet	X	X		
620327	PHILADELPHIA	2822 W Porter St	19145	6/30/2015	EW WEL	39.92257	-75.19477	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-17 2 Inch PVC x 35.5 Feet Deep w/3 F	X	X		
620328	PHILADELPHIA	2830 Ernest St	19145	6/22/2015	EW WEL	39.92193	-75.19496	EAST COAST DRILLING INC	Gas Works		UNUSED			Air Sparge Well AS-07 2 Inch PVC x 31 Feet Deep w/3 F	X	X		
620342	PHILADELPHIA	2830 Ernest St	19145	6/16/2015	EW WEL	39.92171	-75.19509	EAST COAST DRILLING INC	Gas Works		UNUSED			Soil Vapor Extraction Well SVE-01 2 Inch PVC x 19 Feet	X	X		
620348	PHILADELPHIA	2401 S 28th St	19145	6/29/2015	EW WEL	39.92336	-75.19393	EAST COAST DRILLING INC	Gas Works		UNUSED			Soil Vapor Extraction Well SVE-09 2 Inch PVC x 21 Feet	X	X		
620349	PHILADELPHIA	2818 W Porter St	19145	6/22/2015	EW WEL	39.92257	-75.19422	EAST COAST DRILLING INC	Gas Works		UNUSED			Soil Vapor Extraction Well SVE-06 2 Inch PVC x 20 Deep	X	X		
620350	PHILADELPHIA	2818 W Porter St	19145	6/18/2015	EW WEL	39.92268	-75.19418	EAST COAST DRILLING INC	Gas Works		UNUSED			Soil Vapor Extraction Well SVE-07 2 Inch PVC x 20 Feet	X	X		
620351	PHILADELPHIA	2401 S 28th St	19145	6/15/2015	EW WEL	39.9232	-75.19409	EAST COAST DRILLING INC	Gas Works		UNUSED			Soil Vapor Extraction Well SVE-08 2 Inch PVC x 20 Feet	X	X		
621226	PHILADELPHIA	7001 ESSINGTON AVE.	19153	2/28/2008	EW WEL	39.90278	-75.23057	EICHELBERGERS INC.	MEISSNER CHEVROLET	OBSERVATION	UNUSED				X			
621609	PHILADELPHIA	7001 ESSINGTON AVE.	19153	2/28/2008	EW WEL	39.90278	-75.23056	EICHELBERGERS INC.	MEISSNER CHEVROLET	OBSERVATION	UNUSED				X			
621610	PHILADELPHIA	7001 ESSINGTON AVE.	19153	2/28/2008	EW WEL	39.90278	-75.23056	EICHELBERGERS INC.	MEISSNER CHEVROLET	OBSERVATION	UNUSED				X			
621611	PHILADELPHIA	7001 ESSINGTON AVE.	19153	2/28/2008	EW WEL	39.90278	-75.23056	EICHELBERGERS INC.	MEISSNER CHEVROLET	OBSERVATION	UNUSED				X			
621612	PHILADELPHIA	7001 ESSINGTON AVE.	19153	2/28/2008	EW WEL	39.90278	-75.23056	EICHELBERGERS INC.	MEISSNER CHEVROLET	OBSERVATION	UNUSED				X			
623332	PHILADELPHIA	1201 S 35th St		8/13/2015	EW WEL	39.93865	-75.20003	ODYSSEY ENVIRONMENTAL SERVICE	Philadelphia Authority for Ind	MONITORING					X			
623333	PHILADELPHIA	1201 S 35th St		8/13/2015	EW WEL	39.93889	-75.19966	ODYSSEY ENVIRONMENTAL SERVICE	Philadelphia Authority for Ind	MONITORING					X			
623375	PHILADELPHIA	1201 S 35th St		8/13/2015	EW WEL	39.93968	-75.19963	ODYSSEY ENVIRONMENTAL SERVICE	Philadelphia Authority for Ind	MONITORING					X			
623376	PHILADELPHIA	1201 S 35th St		8/13/2015	EW WEL	39.93922	-75.19968	ODYSSEY ENVIRONMENTAL SERVICE	Philadelphia Authority for Ind	MONITORING					X			
623377	PHILADELPHIA	1201 S 35th St		8/13/2015	EW WEL	39.93959	-75.19896	ODYSSEY ENVIRONMENTAL SERVICE	Philadelphia Authority for Ind	MONITORING					X			
623478	PHILADELPHIA	3144 Passyunk Avenue	19145	2/27/2015	EW WEL	39.91957	-75.19125	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING					X	X		
623479	PHILADELPHIA	3144 Passyunk Avenue	19145	2/26/2015	EW WEL	39.91974	-75.19122	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING					X	X		
623589	PHILADELPHIA	1708 Mingo Avenue	19153	6/12/2015	EW WEL	39.899	-75.22534	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING					X	X		
623611	PHILADELPHIA	1708 Mingo Avenue	Not F	6/19/2015	EW WEL	39.89669	-75.22565	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING					X	X		
623612	PHILADELPHIA	1708 Mingo Avenue	19153	6/15/2015	EW WEL	39.89961	-75.22514	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING					X	X		
623634	PHILADELPHIA	1708 Mingo Avenue	19153	6/23/2015	EW WEL	39.90186	-75.22443	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING					X	X		
623779	PHILADELPHIA	3144 Passyunk Avenue	Not F	2/20/2015	EW WEL	39.91906	-75.19562	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING					X	X		
623780	PHILADELPHIA	3144 Passyunk Avenue	19145	3/3/2015	EW WEL	39.91948	-75.19126	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING					X	X		
623945	PHILADELPHIA	1708 Mingo Avenue	19153	7/27/2015	EW WEL	39.90455	-75.22322	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING					X	X		
625162	PHILADELPHIA	6700 ESSINGTON AVE.	19153	11/3/2006	EW WEL	39.92222	-75.22472	EICHELBERGERS INC.	ESSINGTON PATRIOT L.P.	OBSERVATION	UNUSED				X			
625163	PHILADELPHIA	6700 ESSINGTON AVE.	19153	11/3/2006	EW WEL	39.92222	-75.22471	EICHELBERGERS INC.	ESSINGTON PATRIOT L.P.	OBSERVATION	UNUSED				X			
625164	PHILADELPHIA	6700 ESSINGTON AVE.	19153	11/3/2006	EW WEL	39.92222	-75.22472	EICHELBERGERS INC.	ESSINGTON PATRIOT L.P.	OBSERVATION	UNUSED				X			
625165	PHILADELPHIA	6700 ESSINGTON AVE.	19153	11/3/2006	EW WEL	39.92222	-75.22472	EICHELBERGERS INC.	ESSINGTON PATRIOT L.P.	OBSERVATION	UNUSED				X			
625480	PHILADELPHIA	6700 ESSINGTON AVE.	19153	11/3/2006	EW WEL	39.92222	-75.22471	EICHELBERGERS INC.	ESSINGTON PATRIOT L.P.	OBSERVATION	UNUSED				X			
625488	PHILADE																	

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis				
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma geLink	Remark	Well excluded based on WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based on location outside search radius	
632569	PHILADELPHIA	7625 Suffolk Ave	19173	2/6/2003	EW WEL	39.90193	-75.23588	ALLIED WELL DRILLING	Delaware Ave Enterprises Inc	MONITORING	OTHER			From Rt 95 get off Island Ave exit going north. Off of Isl	X				
632596	PHILADELPHIA	7625 Suffolk Ave	19153	2/6/2003	EW WEL	39.90259	-75.23553	ALLIED WELL DRILLING	Delaware Ave Enterprises Inc	MONITORING	OTHER			From Rt 95 get off Island Ave exit going north. Off of Isl	X				
635716	PHILADELPHIA	2601 PENROSE AVE.		2/6/2003	EW WEL	39.90778	-75.20278	EICHELBERGERS INC.	SUNOCO	OBSERVATION	UNUSED			WELL ID: MW17	X	X			
635867	PHILADELPHIA	VENUE & INDUSTRIAL H	19153	1/30/2004	EW WEL	39.89083	-75.235	EICHELBERGERS INC.	EXXON #2 - 8048	OBSERVATION	UNUSED			WELL ID: MW18	X	X			
636002	PHILADELPHIA	2601 PENROSE AVE.		2/6/2003	EW WEL	39.90778	-75.20278	EICHELBERGERS INC.	SUNOCO	OBSERVATION	UNUSED			WELL ID: MW19	X	X			
636003	PHILADELPHIA	2601 PENROSE AVE.		2/6/2003	EW WEL	39.90778	-75.20278	EICHELBERGERS INC.	SUNOCO	OBSERVATION	UNUSED			WELL ID: MW19	X	X			
637028	PHILADELPHIA	VENUE & INDUSTRIAL H	19153	1/30/2004	EW WEL	39.89083	-75.235	EICHELBERGERS INC.	EXXON #2 - 8048	OBSERVATION	UNUSED			WELL ID: MW7	X	X			
637029	PHILADELPHIA	VENUE & INDUSTRIAL H	19153	1/30/2004	EW WEL	39.89083	-75.235	EICHELBERGERS INC.	EXXON #2 - 8048	OBSERVATION	UNUSED			WELL ID: MW8	X	X			
637030	PHILADELPHIA	VENUE & INDUSTRIAL H	19153	1/30/2004	EW WEL	39.89083	-75.235	EICHELBERGERS INC.	EXXON #2 - 8048	OBSERVATION	UNUSED			WELL ID: MW9	X	X			
637492	PHILADELPHIA	1800 Bigler Street	19145	2/3/2016	DOP GEO	39.91594	-75.17836	CHRISTOPHER C W COOK FOUND	City of Phila	UNUSED	UNUSED			3 wells each 505 feet deep for closed loop geothermal s	X				
638317	PHILADELPHIA	6301 Passyunk Ave	19153	2/24/2016	EW WEL	39.91321	-75.21703	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
640074	PHILADELPHIA			Not F	2/24/2016	EW WEL	39.90912	-75.19723	PARRATT-WOLFF INC	Evergreen	MONITORING	OTHER				X	X		
640074	PHILADELPHIA			Not F	2/24/2016	EW WEL	39.90912	-75.19723	PARRATT-WOLFF INC	Evergreen	MONITORING	OTHER				X	X		
640074	PHILADELPHIA			Not F	2/24/2016	EW WEL	39.90912	-75.19723	PARRATT-WOLFF INC	Evergreen	MONITORING	OTHER				X	X		
640444	PHILADELPHIA	3450 S 26th St	19145	2/8/2016	EW WEL	39.90918	-75.19379	PARRATT-WOLFF INC	Evergreen	MONITORING	OTHER				X	X			
640444	PHILADELPHIA	3450 S 26th St	19145	2/8/2016	EW WEL	39.90918	-75.19379	PARRATT-WOLFF INC	Evergreen	MONITORING	OTHER				X	X			
640444	PHILADELPHIA	3450 S 26th St	19145	2/8/2016	EW WEL	39.90918	-75.19379	PARRATT-WOLFF INC	Evergreen	MONITORING	OTHER				X	X			
640467	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90262	-75.20273	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
640522	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90245	-75.21676	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
640523	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90252	-75.2167	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
640524	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90242	-75.21676	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641541	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.9002	-75.21667	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641542	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90021	-75.21668	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641543	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90022	-75.21667	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641544	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90023	-75.21667	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641545	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90024	-75.20028	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641546	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90024	-75.20027	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641547	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90024	-75.20027	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641548	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90024	-75.20026	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641549	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90024	-75.20025	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641550	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90227	-75.20244	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641551	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90267	-75.20259	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641552	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90267	-75.2026	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641553	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90239	-75.20001	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641554	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90243	-75.21672	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641555	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90244	-75.2024	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641608	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90021	-75.20027	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641609	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.9002	-75.20027	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641610	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90023	-75.21667	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641611	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90024	-75.21667	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641612	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90024	-75.21668	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641613	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.91571	-75.21602	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641615	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90024	-75.20027	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641616	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90022	-75.20266	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641617	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90256	-75.20252	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641618	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90257	-75.20232	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641619	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90257	-75.20232	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641620	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90267	-75.20254	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641622	PHILADELPHIA	6301 Passyunk Ave	19153	2/8/2016	EW WEL	39.90231	-75.20244	ALLIED WELL DRILLING	121 Point Breeze Terminal	ABANDONED	OTHER			Rt 202 and Rt 1 take Rt. 1 east right onto Rt. 322 to Rt 5	X	X			
641636	PHILADELPHIA	20th and Johnston Sts	19145	4/8/2015	EW WEL	39.91422	-75.18151	ALLIED WELL DRILLING	Septa	MONITORING	OTHER			Located in Philadelphia From Schuylkill Expressway - Rt	X				
641637	PHILADELPHIA	20th and Johnston Sts	19145	4/8/2015	EW WEL	39.91415	-75.18027	ALLIED WELL DRILLING	Septa	MONITORING	OTHER			Located in Philadelphia From Schuylkill Expressway - Rt	X				
641638	PHILADELPHIA	20th and Johnston Sts	19145	4/8/2015	EW WEL	39.91644	-75.17987	ALLIED WELL DRILLING	Septa	MONITORING	OTHER			Located in Philadelphia From Schuylkill Expressway - Rt	X				
641639	PHILADELPHIA	20th &amp;amp;amp;amp; Johnston Sts	19145	4/8/2015	EW WEL	39.91634	-75.18079	ALLIED WELL DRILLING	Septa	MONITORING	OTHER			Located in Philadelphia From Schuylkill Expressway - Rt	X				
642820	PHILADELPHIA			8/5/2016	EW WEL	39.9235	-75.2056	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING	OTHER				X	X			
642820	PHILADELPHIA			8/5/2016	EW WEL	39.9235	-75.2056	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING	OTHER				X	X			
642820	PHILADELPHIA			8/5/2016	EW WEL	39.9235	-75.2056	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING	OTHER				X	X			
642821	PHILADELPHIA			8/4/2016	EW WEL	39.92521	-75.20528	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING	OTHER				X	X			
642821	PHILADELPHIA			8/4/2016	EW WEL	39.92521	-75.20528	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING	OTHER				X	X			
642822	PHILADELPHIA			8/4/2016	EW WEL	39.92395	-75.2059	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING	OTHER				X	X			
642822	PHILADELPHIA			8/4/2016	EW WEL	39.92395	-75.2059	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING	OTHER				X	X			
642823	PHILADELPHIA			8/9/2016	EW WEL	39.92429	-75.20617	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING	OTHER				X	X			
642823	PHILADELPHIA			8/9/2016	EW WEL	39.92429	-75.20617	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING	OTHER				X	X			
642893	PHILADELPHIA			8/9/2016	EW WEL	39.92394	-75.20592	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING	OTHER				X	X			
642893	PHILADELPHIA			8/9/2016	EW WEL	39.92394	-75.20592	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING	OTHER				X	X			
642905	PHILADELPHIA			8/8/2016	EW WEL	39.92402	-75.20774	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING	OTHER				X	X			
642905	PHILADELPHIA			8/8/2016	EW WEL	39.92402	-75.20774	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING	OTHER				X	X			
643399	PHILADELPHIA			8/17/2016	EW WEL	39.9217	-75.20739	PARRATT-WOLFF INC	Evergreen Resources Group U	MONITORING									

Table 1  
Well Search Results (2017) - Pennsylvania Groundwater Information System (PaGWIS)  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information															Data Analysis			
PAWellID	Municipality	WellAddress	WellZip Code	DateDrilled	TypeOf Activity	LatitudeDD	LongitudeDD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	Paperma gLink	Remark	Well excluded based of WellUse, WaterUse, TypeOfActivity, or Remark	Well excluded based on review of Ownership Information	Well excluded based on review of Paper Log/ Duplicate record	Well excluded based upon location outside search radius
643672	PHILADELPHIA	Porter Station 28th Street	19145	9/13/2016	EW WEL	39.9232	-75.1939	EAST COAST DRILLING INC	Gas Works	MONITORING	OTHER			MW-A 2-inch PVC x 33-Feet Deep w/ 20-Feet .010 Scre	X	X		
644031	PHILADELPHIA		Not F	9/6/2016	EW WEL	39.90035	-75.2238	PARRATT-WOLFF INC	Evergreen Resources Group L		OTHER					X		
644031	PHILADELPHIA		Not F	9/6/2016	EW WEL	39.90035	-75.2238	PARRATT-WOLFF INC	Evergreen Resources Group L		OTHER					X		
644032	PHILADELPHIA		Not F	9/19/2016	EW WEL	39.89823	-75.22238	PARRATT-WOLFF INC	Evergreen Resources Group L		OTHER					X		
644032	PHILADELPHIA		Not F	9/19/2016	EW WEL	39.89823	-75.22238	PARRATT-WOLFF INC	Evergreen Resources Group L		OTHER					X		
644089	PHILADELPHIA		Not F	9/22/2016	EW WEL	39.89582	-75.21969	PARRATT-WOLFF INC	Evergreen Resources Group		OTHER					X		
644089	PHILADELPHIA		Not F	9/22/2016	EW WEL	39.89582	-75.21969	PARRATT-WOLFF INC	Evergreen Resources Group		OTHER					X		
644090	PHILADELPHIA		Not F	9/6/2016	EW WEL	39.8942	-75.22347	PARRATT-WOLFF INC	Evergreen Resources Group L		OTHER					X		
644090	PHILADELPHIA		Not F	9/6/2016	EW WEL	39.8942	-75.22347	PARRATT-WOLFF INC	Evergreen Resources Group L		OTHER					X		
644102	PHILADELPHIA		Not F	9/20/2016	EW WEL	39.90225	-75.22167	PARRATT-WOLFF INC	Evergreen Resources Group L		OTHER					X		
644102	PHILADELPHIA		Not F	9/20/2016	EW WEL	39.90225	-75.22167	PARRATT-WOLFF INC	Evergreen Resources Group L		OTHER					X		
644103	PHILADELPHIA		Not F	9/15/2016	EW WEL	39.89945	-75.22197	PARRATT-WOLFF INC	Evergreen Resources Group L		OTHER					X		
644103	PHILADELPHIA		Not F	9/15/2016	EW WEL	39.89945	-75.22197	PARRATT-WOLFF INC	Evergreen Resources Group L		OTHER					X		
644104	PHILADELPHIA		Not F	9/14/2016	EW WEL	39.89757	-75.2196	PARRATT-WOLFF INC	Evergreen Resources Group L		OTHER					X		
644104	PHILADELPHIA		Not F	9/14/2016	EW WEL	39.89757	-75.2196	PARRATT-WOLFF INC	Evergreen Resources Group L		OTHER					X		
644105	PHILADELPHIA		Not F	9/21/2016	EW WEL	39.89573	-75.22036	PARRATT-WOLFF INC	Evergreen Resources Group L		OTHER					X		
644105	PHILADELPHIA		Not F	9/21/2016	EW WEL	39.89573	-75.22036	PARRATT-WOLFF INC	Evergreen Resources Group L		OTHER					X		
644106	PHILADELPHIA		Not F	9/27/2016	EW WEL	39.89804	-75.21938	PARRATT-WOLFF INC	Evergreen Resources Group L		OTHER					X		
644106	PHILADELPHIA		Not F	9/27/2016	EW WEL	39.89804	-75.21938	PARRATT-WOLFF INC	Evergreen Resources Group L		OTHER					X		
648797	PHILADELPHIA	5200 Woodland Ave.	19143	8/23/2016	EW WEL	39.93806	-75.21617	AMERIDRILL INC.	Bajrang Fuels Inc.	MONITORING					X			
649039	PHILADELPHIA	6901 Buist Ave	19142	4/17/2017	ABANDON	39.91693	-75.23498	ODYSSEY ENVIRONMENTAL SERVICE	Singh	ABANDONED				Tremie grout. Restore surface to match existing.	X			
649040	PHILADELPHIA	6901 Buist Ave	19142	4/17/2017	ABANDON	39.91717	-75.235	ODYSSEY ENVIRONMENTAL SERVICE	Singh	ABANDONED				Tremie grout. Restore surface to match existing.	X			
649041	PHILADELPHIA	6901 Buist Ave	19142	4/17/2017	ABANDON	39.91712	-75.23494	ODYSSEY ENVIRONMENTAL SERVICE	Singh	ABANDONED				Tremie grout. Restore surface to match existing.	X			
649042	PHILADELPHIA	6901 Buist Ave	19142	4/17/2017	ABANDON	39.91707	-75.23489	ODYSSEY ENVIRONMENTAL SERVICE	Singh	ABANDONED				Tremie grout. Restore surface to match existing.	X			
649052	PHILADELPHIA	6901 Buist Ave	19142	4/17/2017	ABANDON	39.91712	-75.23502	ODYSSEY ENVIRONMENTAL SERVICE	Singh	ABANDONED				Tremie grout. Restore surface to match existing.	X			
649053	PHILADELPHIA	6901 Buist Ave	19142	4/17/2017	ABANDON	39.91699	-75.23494	ODYSSEY ENVIRONMENTAL SERVICE	Singh	ABANDONED				Tremie grout. Restore surface to match existing.	X			
649055	PHILADELPHIA	6901 Buist Ave	19142	4/17/2017	ABANDON	39.91714	-75.235	ODYSSEY ENVIRONMENTAL SERVICE	Singh	ABANDONED				Tremie grout. Restore surface to match existing.	X			
649056	PHILADELPHIA	6901 Buist Ave	19142	4/17/2017	ABANDON	39.91701	-75.2349	ODYSSEY ENVIRONMENTAL SERVICE	Singh	ABANDONED				Tremie grout. Restore surface to match existing.	X			
649161	PHILADELPHIA	6901 Buist Ave	19142	4/17/2017	ABANDON	39.91701	-75.23501	ODYSSEY ENVIRONMENTAL SERVICE	Singh	ABANDONED				Tremie grout. Restore surface to match existing.	X			
649162	PHILADELPHIA	6901 Buist Ave	19142	4/17/2017	ABANDON	39.91687	-75.23511	ODYSSEY ENVIRONMENTAL SERVICE	Singh	ABANDONED				Tremie grout. Restore surface to match existing.	X			
649163	PHILADELPHIA	6901 Buist Ave	19142	4/17/2017	ABANDON	39.9169	-75.23503	ODYSSEY ENVIRONMENTAL SERVICE	Singh	ABANDONED				Tremie grout. Restore surface to match existing.	X			
650469	PHILADELPHIA	Hison Avenue and S 20th Str	19145	4/6/2017	EW WEL	39.90686	-75.1852	EICHELBERGERS INC.	USACE	TEST	UNUSED			FDR DW-15	X			
650469	PHILADELPHIA	Hison Avenue and S 20th Str	19145	4/6/2017	EW WEL	39.90686	-75.1852	EICHELBERGERS INC.	USACE	TEST	UNUSED			FDR DW-15	X			
650855	PHILADELPHIA	S 20th and Hartmanft Streets	19145	4/21/2017	EW WEL	39.90863	-75.18284	EICHELBERGERS INC.	USACE	TEST	UNUSED			NOVA DW-14	X			
650855	PHILADELPHIA	S 20th and Hartmanft Streets	19145	4/21/2017	EW WEL	39.90863	-75.18284	EICHELBERGERS INC.	USACE	TEST	UNUSED			NOVA DW-14	X			
653091	PHILADELPHIA	2845.2855 EMERALD AVE	19134	9/8/2017	EW WEL	0	0	FRANKFORD AVE ASSOC LLC	MONITORING	OTHER			o/PaGWIS	FLUSHMOUNT MW6. SEE ALSO PA WELL ID 653090.	X			
653091	PHILADELPHIA	2845.2855 EMERALD AVE	19134	9/8/2017	EW WEL	0	0	FRANKFORD AVE ASSOC LLC	WITHDRAWAL	DOMESTIC			o/PaGWIS	FLUSHMOUNT MW6. SEE ALSO PA WELL ID 653090.		X		

Table 2  
Well Search Results (2017) - Follow-up wells  
Philadelphia Refining Complex, a series of Evergreen Resources Management, LLC

PaGWIS Database Information																Data Analysis <sup>2</sup>
PAWellID <sup>1</sup>	County	Municipality	WellAddress	WellZipC ode	DateDrilled	TypeOfAc tivity	LatitudeD D	Longitude DD	Driller	OriginalOwner	WellUse	WaterUse	FormationName	PaperImageLink	Remark	
29734	PHILADELPHIA	PHILADELPHIA			3/1/1980		39.88833	-75.22139	GRIFFIN WELL POINT	CITY OF PHILA	WITHDRAWAL	DEWATER	TRENTON GRAVEL			Likely Destroyed
29737	PHILADELPHIA	PHILADELPHIA			3/1/1980		39.88861	-75.22083	GRIFFIN WELL POINT	CITY OF PHILA	WITHDRAWAL	DEWATER	TRENTON GRAVEL			Likely Destroyed
29738	PHILADELPHIA	PHILADELPHIA			3/1/1980		39.88861	-75.22139	GRIFFIN WELL POINT	CITY OF PHILA	WITHDRAWAL	DEWATER	TRENTON GRAVEL			Likely Destroyed
29742	PHILADELPHIA	PHILADELPHIA			3/1/1980		39.88944	-75.22222	GRIFFIN WELL POINT	CITY OF PHILA	WITHDRAWAL	DEWATER	TRENTON GRAVEL			Likely Destroyed
29743	PHILADELPHIA	PHILADELPHIA			3/1/1980		39.88972	-75.22167	GRIFFIN WELL POINT	CITY OF PHILA	WITHDRAWAL	DEWATER	TRENTON GRAVEL			Likely Destroyed
29744	PHILADELPHIA	PHILADELPHIA			3/1/1980		39.88972	-75.22194	GRIFFIN WELL POINT	CITY OF PHILA	WITHDRAWAL	DEWATER	TRENTON GRAVEL			Likely Destroyed
30374	PHILADELPHIA	PHILADELPHIA			3/1/1980		39.88833	-75.22083	GRIFFIN WELL POINT	CITY OF PHILA	WITHDRAWAL	DEWATER	TRENTON GRAVEL			Likely Destroyed
48193	PHILADELPHIA				6/27/1996		39.88167	-75.21861	NFE INC	PHILA DEPT OF AVIATION	WITHDRAWAL	OTHER	TRENTON GRAVEL			Likely Remediation Well
48194	PHILADELPHIA				6/26/1996		39.88222	-75.21917	NFE INC	PHILA DEPT OF AVIATION	WITHDRAWAL	OTHER	TRENTON GRAVEL			Likely Remediation Well
48195	PHILADELPHIA				7/1/1996		39.88278	-75.21833	NFE INC	PHILA DEPT OF AVIATION	WITHDRAWAL	OTHER	TRENTON GRAVEL			Likely Remediation Well
48196	PHILADELPHIA				7/3/1996		39.88389	-75.21722	NFE INC	PHILA DEPT OF AVIATION	WITHDRAWAL	OTHER	TRENTON GRAVEL			Likely Remediation Well
291859	PHILADELPHIA	PHILADELPHIA	1928 POINT BREEZE AVE		10/1/1994				MILLER PUMP SYSTEMS INC	SMITH				<a href="#">opogeo/PaGWIS_searc</a>		Commercial well (Laundromat)
291860	PHILADELPHIA	PHILADELPHIA	6040 WOODLAND AVE		3/1/1996				MILLER PUMP SYSTEMS INC	SMITH				<a href="#">opogeo/PaGWIS_searc</a>		Commercial Water Supply
291880	PHILADELPHIA	PHILADELPHIA	6208 CHELWYNDE ST PHILADELPHIA		4/10/1992				NORMAN HAGENBUCH	BARBIERI				<a href="#">opogeo/PaGWIS_searc</a>		Irrigation Well

Notes:

1. Wells in this table represent those that were not excluded in data analysis conducted for records in Table 1.
2. Details of the analysis of each record is presented in the summary document.





NOTE: Due to file size, Attachment 3 is available as a separate file: Evergreen\_PC RIR\_20210828\_Part2

### **Attachment 3**

#### **AOI 1 - Table of Figures**

<b>Figure 1A</b>	AOI 1 Belmont Terminal (Data Box Figure), Evergreen 2021
<b>Figure 1B</b>	AOI 1 North (Data Box Figure), Evergreen 2021
<b>Figure 1C</b>	AOI 1 South (Data Box Figure), Evergreen 2021
<b>Figure 5-3</b>	May 2015 Water-Table Elevation (Including Areas of Apparent Mounding or Perching), Stantec 2016
<b>Figure 5-4</b>	May 2014 Water-Table Elevation – Including Synoptic DSCP Gauging Data, Stantec 2016
<b>Figure 5-5</b>	May 2015 Water-Table Elevation – Including Synoptic DSCP Gauging Data, Stantec 2016
<b>Figure 5-6</b>	May 2014 Lower Aquifer Potentiometric Surface – Including Synoptic DSCP Gauging Data, Stantec 2016
<b>Figure 5-7</b>	May 2015 Lower Aquifer Potentiometric Surface – Including Synoptic DSCP Gauging Data, Stantec 2016
<b>Figure 5-8</b>	May 2015 Head Potentials – Unconfined and Lower Aquifers, Stantec 2016
<b>Figure 10-2</b>	Unconfined Aquifer Benzene Maximum Concentration – 2014 and 2015 Data, Stantec 2016
<b>Figure 10-3</b>	Unconfined Aquifer Benzene Maximum Concentration – 2004 and 2005 Data, Stantec 2016
<b>Figure 10-4</b>	Unconfined Aquifer MTBE Maximum Concentration – 2014 and 2015 Data, Stantec 2016
<b>Figure 10-5</b>	Unconfined Aquifer MTBE Maximum Concentration – 2004 and 2005 Data, Stantec 2016
<b>Figure 10-6</b>	Historic Groundwater Analytical Results – Lower Aquifer, Stantec 2016



#### **Attachment 4 - Table of Contents**

<b>Figure 1</b>	Lead in Surface Soil, Evergreen 2021
<b>Figure 1a</b>	Lead in Surface Soil, Inset 1, Evergreen 2021
<b>Figure 1b</b>	Lead in Surface Soil, Inset 2, Evergreen 2021
<b>Figure 1c</b>	Lead in Surface Soil, Inset 3, Evergreen 2021
<b>Figure 1d</b>	Lead in Surface Soil, Inset 4, Evergreen 2021
<b>Figure 1e</b>	Lead in Surface Soil, Inset 5, Evergreen 2021
<b>Figure 1f</b>	Lead in Surface Soil, Inset 6, Evergreen 2021
<b>Figure 1g</b>	Lead in Surface Soil, Inset 7, Evergreen 2021
<b>Figure 1h</b>	Lead in Surface Soil, Inset 8, Evergreen 2021
<b>Figure 1i</b>	Lead in Surface Soil, Inset 8A, Evergreen 2021
<b>Figure 1j</b>	Lead in Surface Soil, Inset 9, Evergreen 2021
<b>Figure 1k</b>	Lead in Surface Soil, Inset 10, Evergreen 2021
<b>Figure 1l</b>	Lead in Surface Soil, Inset 10A, Evergreen 2021
<b>Figure 1m</b>	Lead in Surface Soil, Inset 10B, Evergreen 2021
<b>Figure 2</b>	Zoning Map, Evergreen 2021
<b>Table 1</b>	Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery, Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021, Evergreen 2021



Lead in Surface Soil

Former Philadelphia Refinery

Philadelphia, PA

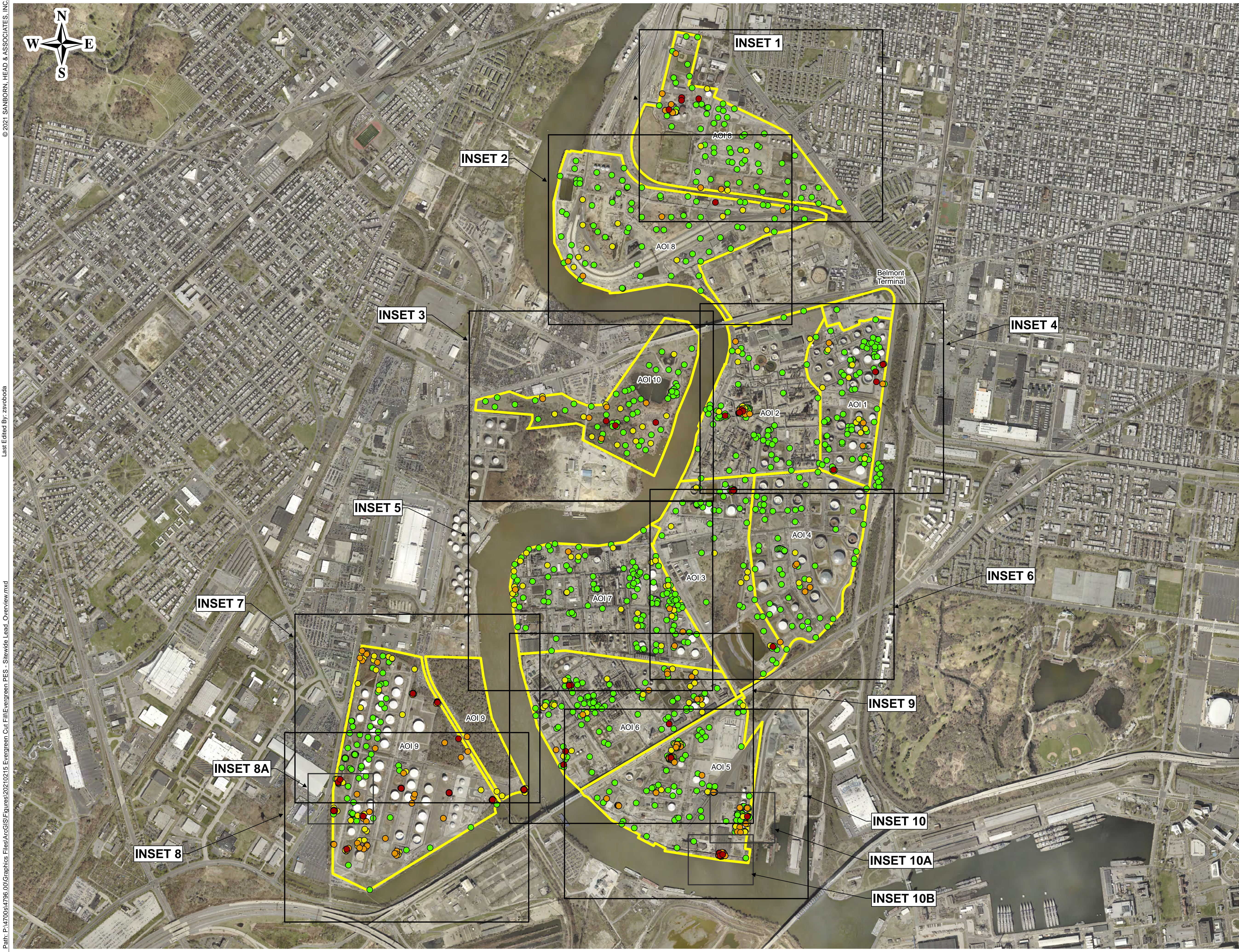
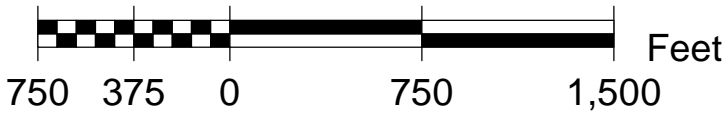
Drawn By: M. Fuerte / H. Pothier  
Designed By: C. Costello  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August 2021

Notes

- 1. Surface Soil is data collected 0-2 ft below ground surface.
- 2. Soil data utilized for Figures are included in the Soil Summary Tables included in Attachment 4.
- 3. Service Layer Credits: Aerial Imagery provided by City of Philadelphia.

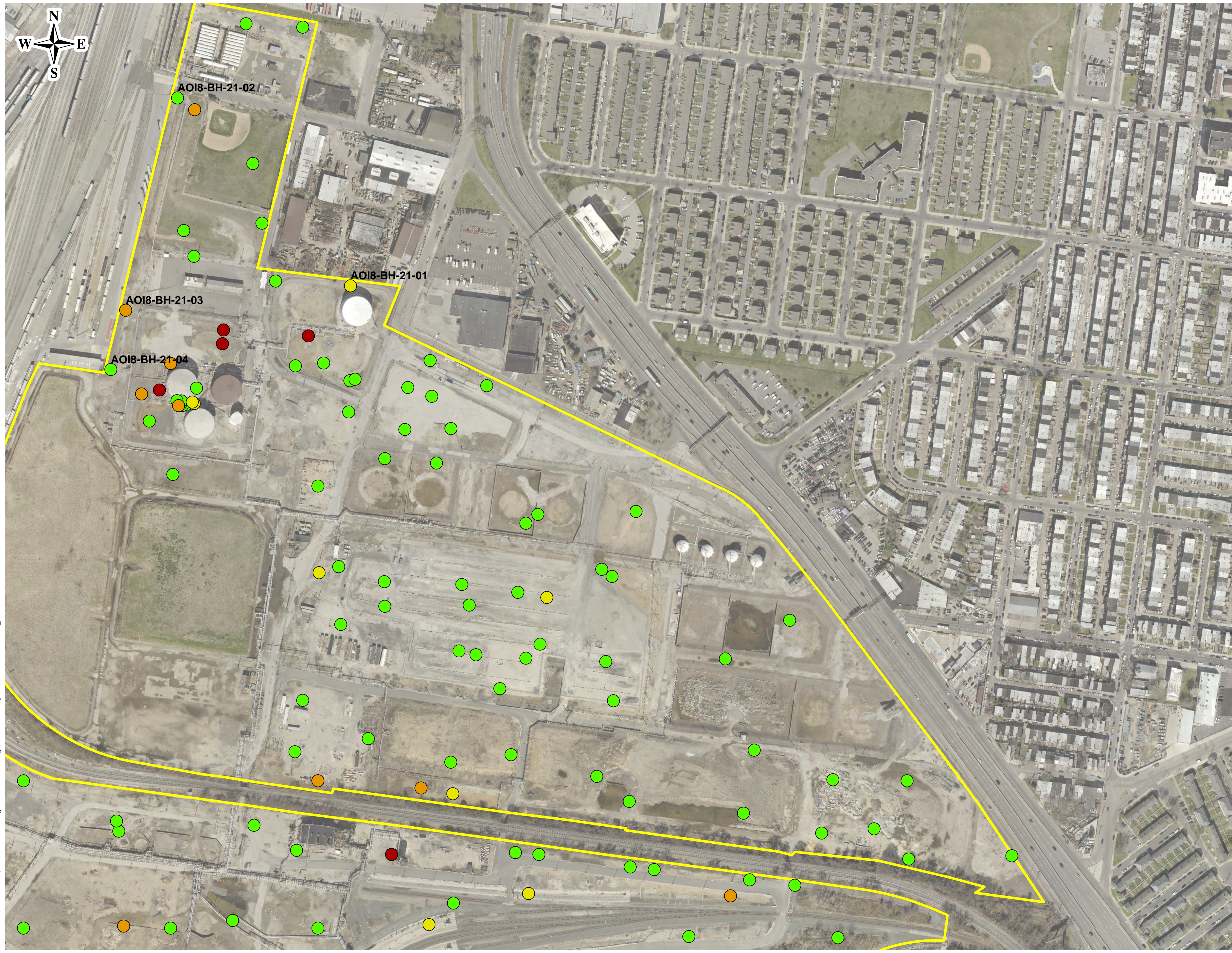
Legend

- Lead Exceeds Site Specific Standard
- Exceeds PADEP Nonresidential Statewide Health Direct Contact MSC
- Exceeds PADEP Nonresidential Statewide Health Soil to Groundwater MSC
- Does Not Exceed PADEP Nonresidential Statewide Health Direct Contact and Soil to Groundwater MSCs
- AOI Boundaries





© 2021 SANBORN HEAD & ASSOCIATES, INC.  
Last Edited By: hpother  
Path: P:\47006\4796.00\Graphics Files\ArcGIS\Figures\20210215 Evergreen Cut Fill\Evergreen PES - Sitewide Lead\_Overview.mxd



# Lead in Surface Soil

Inset 1

Former Philadelphia Refinery

Philadelphia, PA

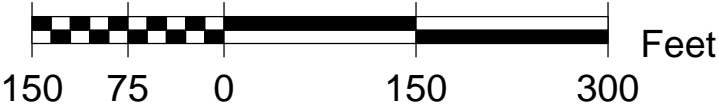
Drawn By: M. Fuerte / H. Pothier  
Designed By: C. Costello  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August 2021

## Notes

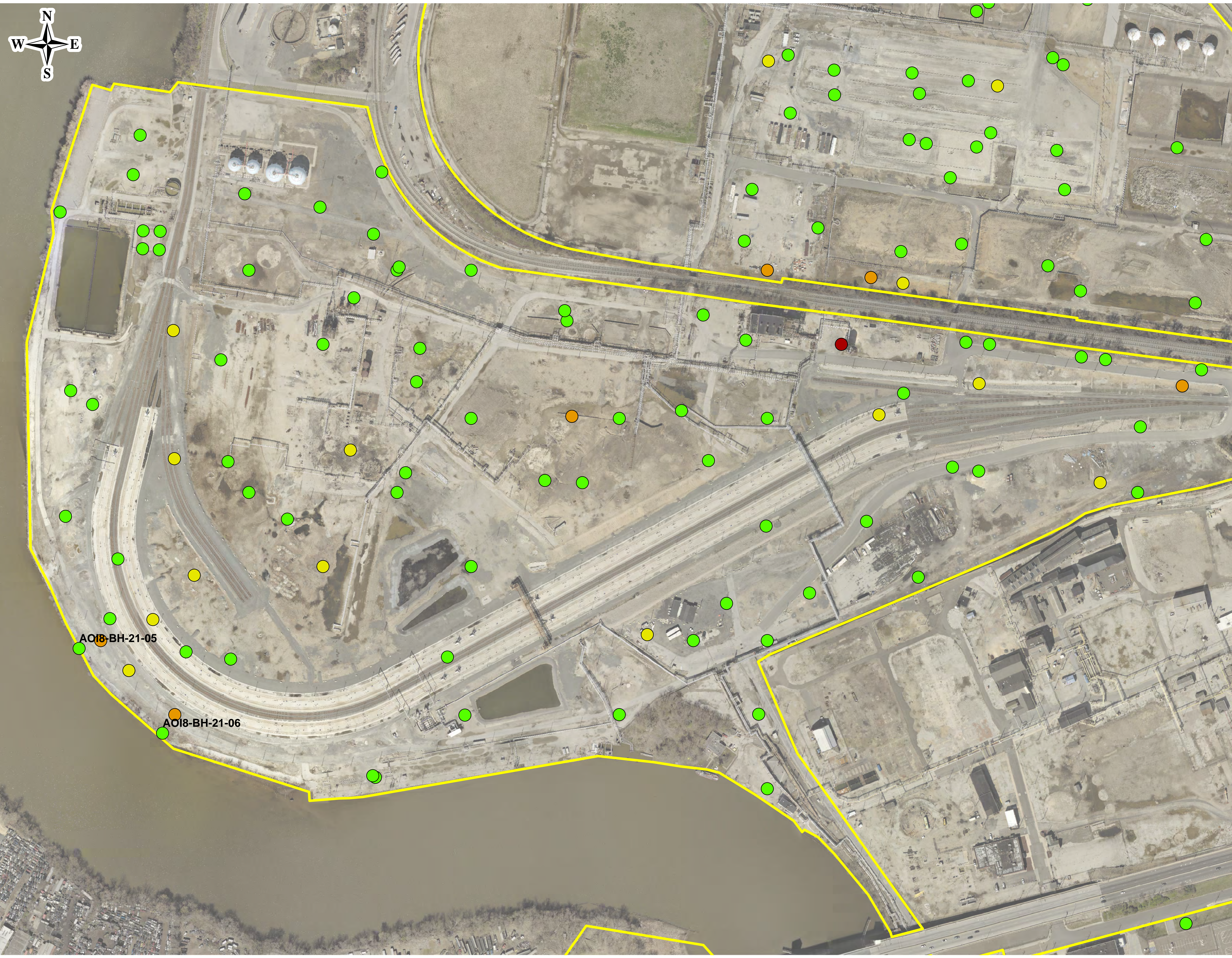
1. Surface Soil is data collected 0-2 ft below ground surface.
2. Soil data utilized for Figures are included in the Soil Summary Tables included in Attachment 4.
3. Service Layer Credits: Aerial Imagery provided by City of Philadelphia.

## Legend

- Lead Exceeds Site Specific Standard
- Exceeds PADEP Nonresidential Statewide Health Direct Contact MSC
- Exceeds PADEP Nonresidential Statewide Health Soil to Groundwater MSC
- Does Not Exceed PADEP Nonresidential Statewide Health Direct Contact and Soil to Groundwater MSCs
- AOI Boundaries







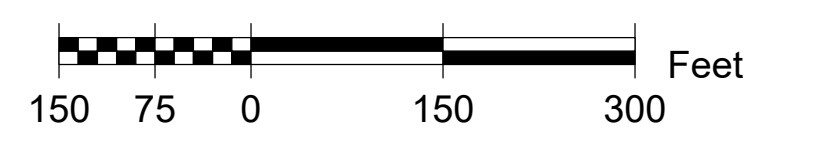
## Lead in Surface Soil

Inset 2  
Former Philadelphia Refinery  
Philadelphia, PA

Drawn By: M. Fuerte / H. Pothier  
Designed By: C. Costello  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August 2021

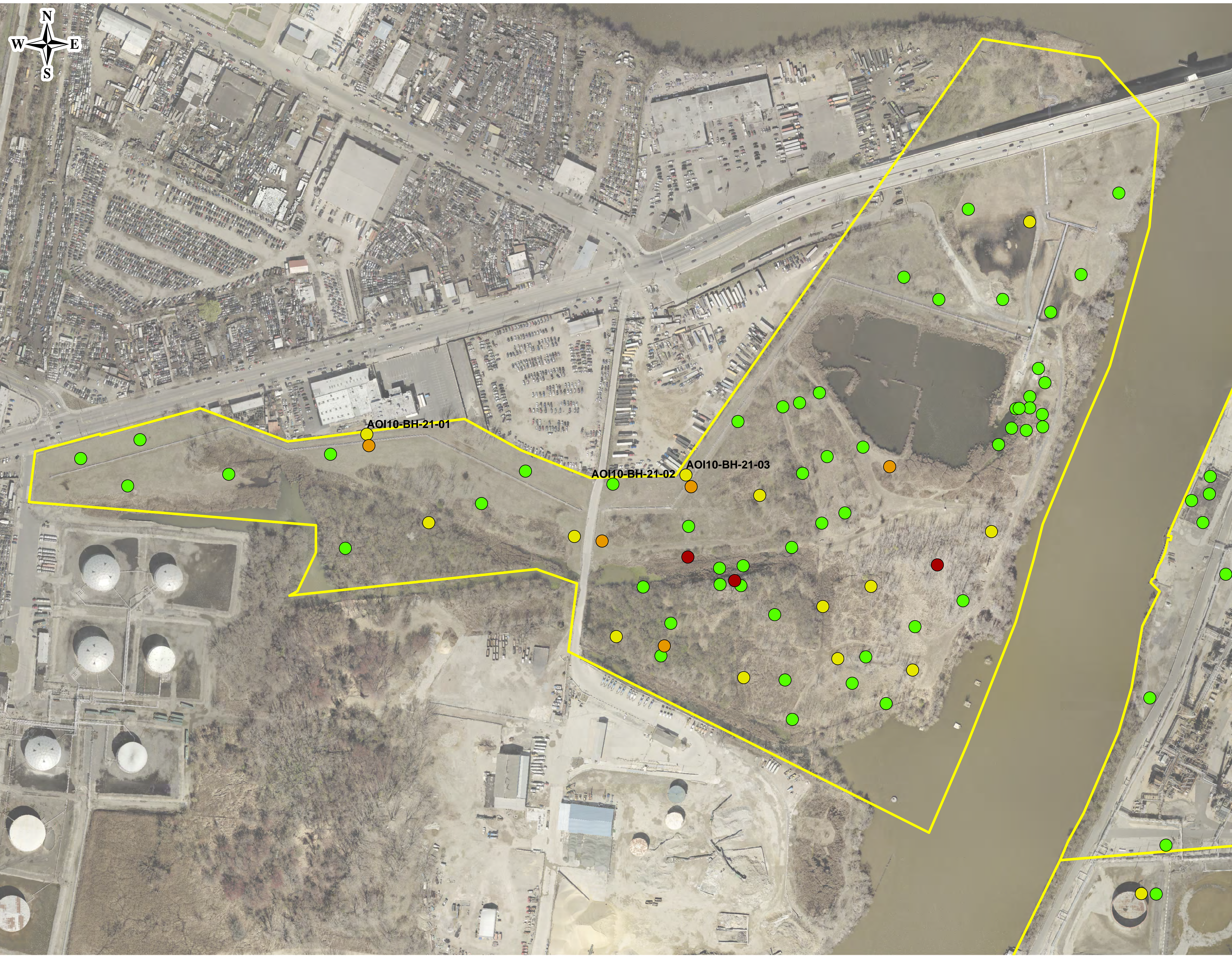
- ### Notes
1. Surface Soil is data collected 0-2 ft below ground surface.
  2. Soil data utilized for Figures are included in the Soil Summary Tables included in Attachment 4.
  3. Service Layer Credits:Aerial Imagery provided by City of Philadelphia.

- ### Legend
- Lead Exceeds Site Specific Standard
  - Exceeds PADEP Nonresidential Statewide Health Direct Contact MSC
  - Exceeds PADEP Nonresidential Statewide Health Soil to Groundwater MSC
  - Does Not Exceed PADEP Nonresidential Statewide Health Direct Contact and Soil to Groundwater MSCs
  - AOI Boundaries





© 2021 SANBORN HEAD & ASSOCIATES, INC.  
Last Edited By: hpothier  
Path: P:\47006\1796.00\Graphics Files\ArcGIS\Figures\20210215 Evergreen Cut File\Evergreen PES - Sitewide Lead\_Overview.mxd



## Lead in Surface Soil

Inset 3

Former Philadelphia Refinery

Philadelphia, PA

Drawn By: M. Fuerte / H. Pothier  
Designed By: C. Costello  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August 2021

### Notes

1. Surface Soil is data collected 0-2 ft below ground surface.
2. Soil data utilized for Figures are included in the Soil Summary Tables included in Attachment 4.
3. Service Layer Credits:Aerial Imagery provided by City of Philadelphia.

### Legend

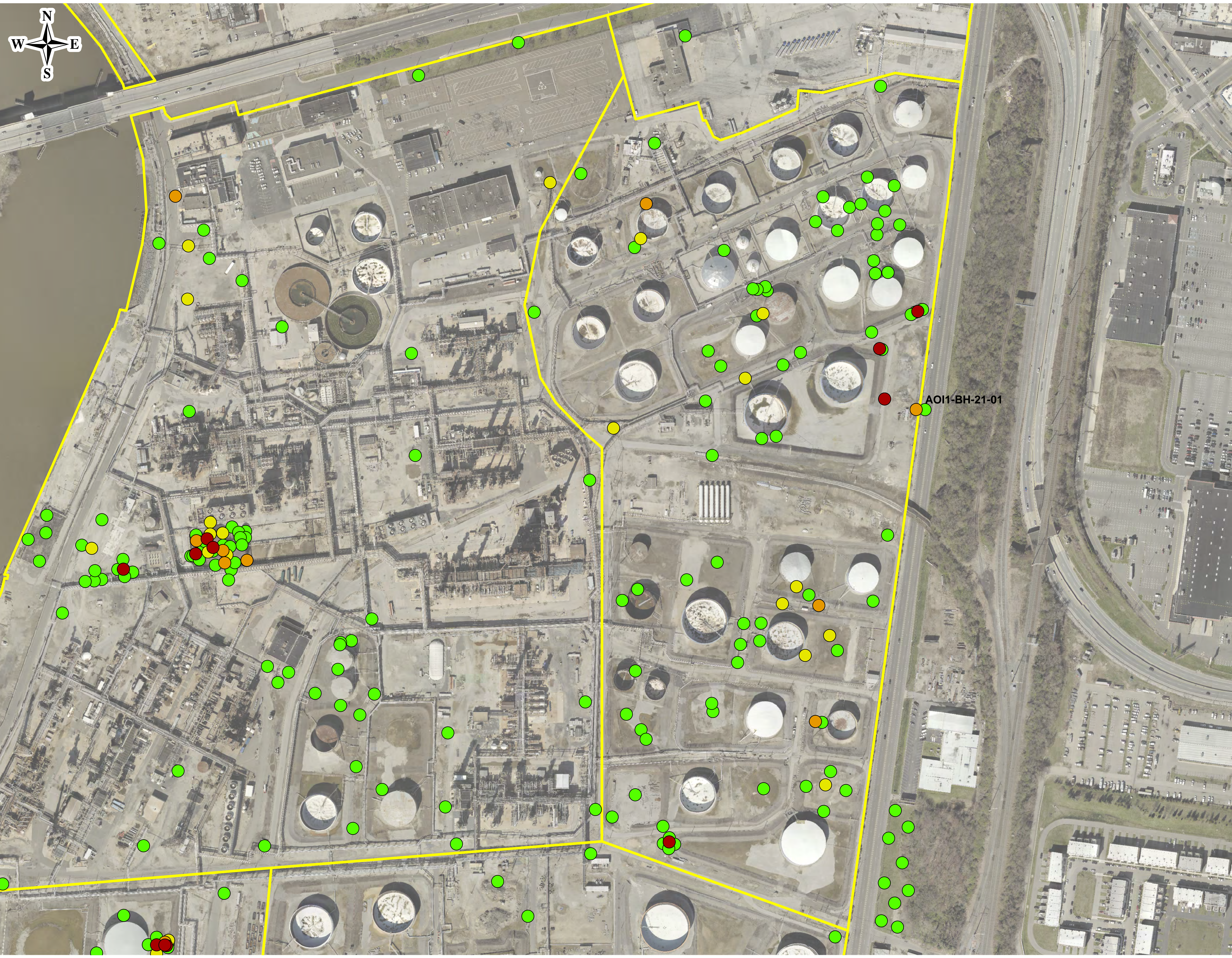
- Lead Exceeds Site Specific Standard
- Exceeds PADEP Nonresidential Statewide Health Direct Contact MSC
- Exceeds PADEP Nonresidential Statewide Health Soil to Groundwater MSC
- Does Not Exceed PADEP Nonresidential Statewide Health Direct Contact and Soil to Groundwater MSCs
- AOI Boundaries

150 75 0 150 300 Feet





© 2021 SANBORN HEAD & ASSOCIATES, INC.  
Last Edited By: hpother  
Path: P:\47006\4796.00\Graphics Files\ArcGIS\Figures\20210215 Evergreen Cut Fill\Evergreen PES - Sitewide Lead\_Overview.mxd



# Lead in Surface Soil

Inset 4

Former Philadelphia Refinery

Philadelphia, PA

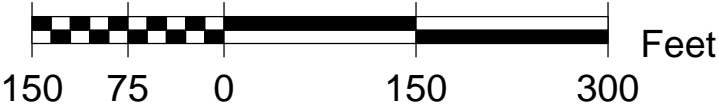
Drawn By: M. Fuerte / H. Pothier  
Designed By: C. Costello  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August 2021

## Notes

1. Surface Soil is data collected 0-2 ft below ground surface.
2. Soil data utilized for Figures are included in the Soil Summary Tables included in Attachment 4.
3. Service Layer Credits:Aerial Imagery provided by City of Philadelphia.

## Legend

- Lead Exceeds Site Specific Standard
- Exceeds PADEP Nonresidential Statewide Health Direct Contact MSC
- Exceeds PADEP Nonresidential Statewide Health Soil to Groundwater MSC
- Does Not Exceed PADEP Nonresidential Statewide Health Direct Contact and Soil to Groundwater MSCs
- AOI Boundaries







## Lead in Surface Soil

Inset 5

Former Philadelphia Refinery

Philadelphia, PA

Drawn By: M. Fuerte / H. Pothier  
Designed By: C. Costello  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August 2021

### Notes

1. Surface Soil is data collected 0-2 ft below ground surface.
2. Soil data utilized for Figures are included in the Soil Summary Tables included in Attachment 4.
3. Service Layer Credits:Aerial Imagery provided by City of Philadelphia.

### Legend

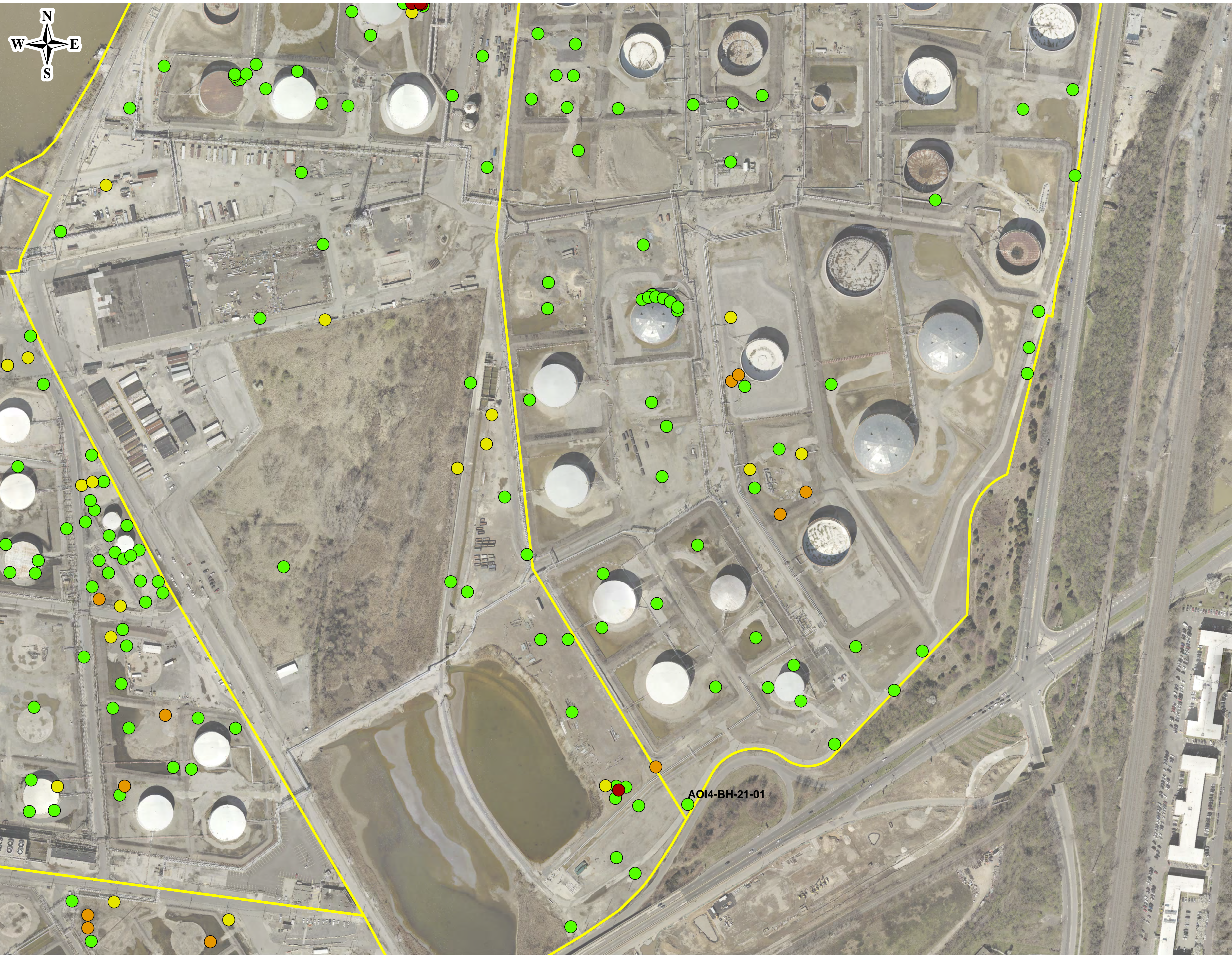
- Lead Exceeds Site Specific Standard
- Exceeds PADEP Nonresidential Statewide Health Direct Contact MSC
- Exceeds PADEP Nonresidential Statewide Health Soil to Groundwater MSC
- Does Not Exceed PADEP Nonresidential Statewide Health Direct Contact and Soil to Groundwater MSCs
- AOI Boundaries

150 75 0 150 300 Feet





© 2021 SANBORN HEAD & ASSOCIATES, INC.  
Last Edited By: hpothier  
Path: P:\47006\4796.00\Graphics Files\ArcGIS\Figures\20210215 Evergreen Cut Fill\Evergreen PES - Sitewide Lead\_Overview.mxd



Lead in Surface Soil

Inset 6

Former Philadelphia Refinery

Philadelphia, PA

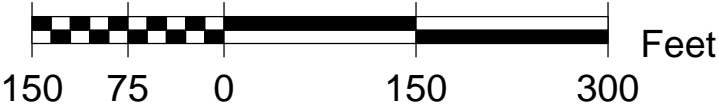
Drawn By: M. Fuerte / H. Pothier  
Designed By: C. Costello  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August 2021

Notes

- 1. Surface Soil is data collected 0-2 ft below ground surface.
- 2. Soil data utilized for Figures are included in the Soil Summary Tables included in Attachment 4.
- 3. Service Layer Credits:Aerial Imagery provided by City of Philadelphia.

Legend

- Lead Exceeds Site Specific Standard
- Exceeds PADEP Nonresidential Statewide Health Direct Contact MSC
- Exceeds PADEP Nonresidential Statewide Health Soil to Groundwater MSC
- Does Not Exceed PADEP Nonresidential Statewide Health Direct Contact and Soil to Groundwater MSCs
- AOI Boundaries





© 2021 SANBORN HEAD & ASSOCIATES, INC.  
Last Edited By: hpothier  
Path: P:\4700s\4796.00\Graphics Files\ArcGIS\Figures\20210215 Evergreen Cut Fill\Evergreen PES - Sitewide Lead\_Overview.mxd



# Lead in Surface Soil

Inset 7

Former Philadelphia Refinery

Philadelphia, PA

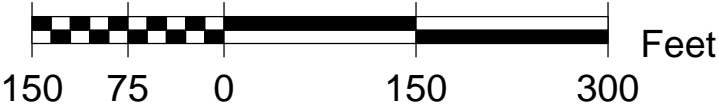
Drawn By: M. Fuerte / H. Pothier  
Designed By: C. Costello  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August 2021

## Notes

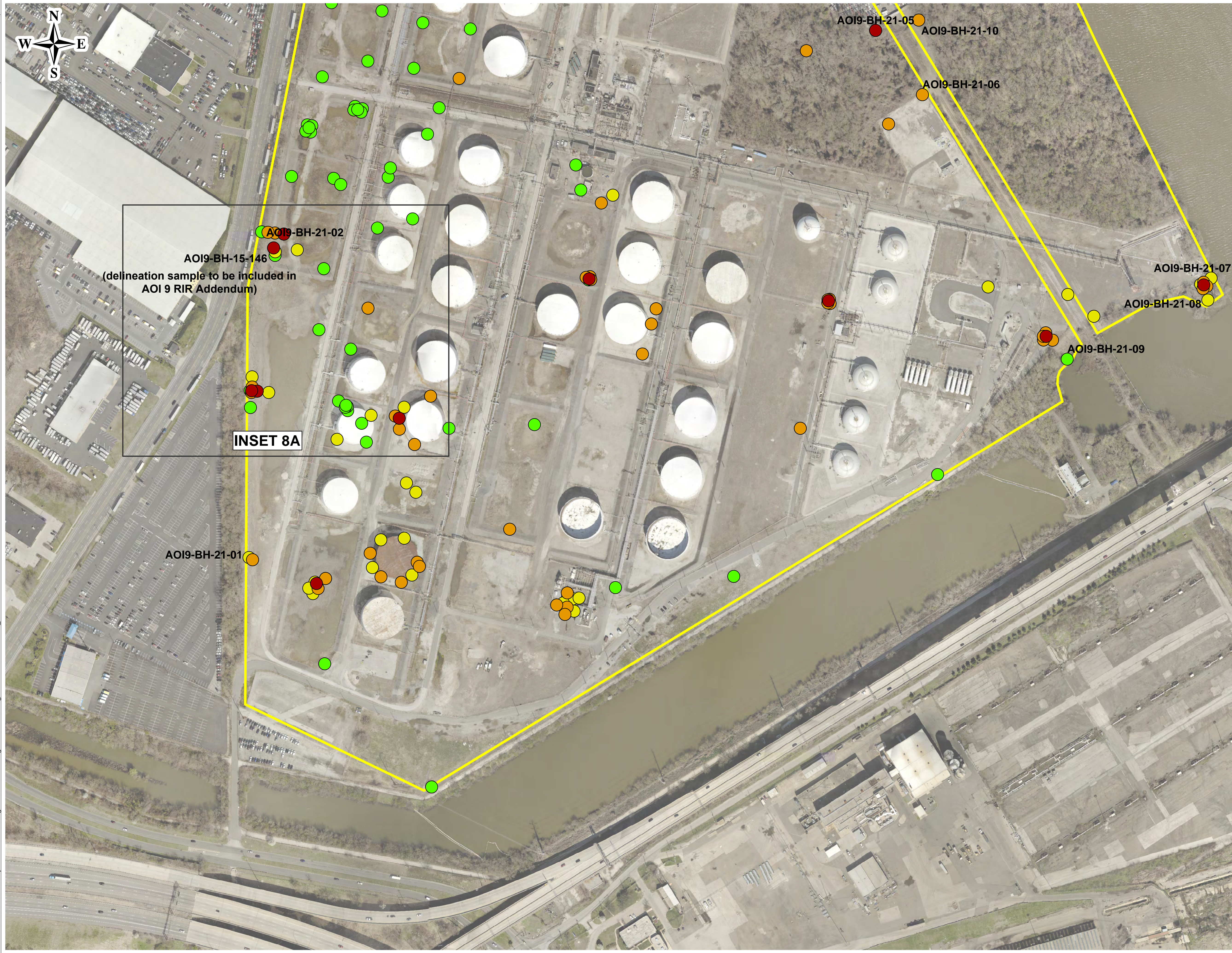
1. Surface Soil is data collected 0-2 ft below ground surface.
2. Soil data utilized for Figures are included in the Soil Summary Tables included in Attachment 4.
3. Service Layer Credits:Aerial Imagery provided by City of Philadelphia.

## Legend

- Lead Exceeds Site Specific Standard
- Exceeds PADEP Nonresidential Statewide Health Direct Contact MSC
- Exceeds PADEP Nonresidential Statewide Health Soil to Groundwater MSC
- Does Not Exceed PADEP Nonresidential Statewide Health Direct Contact and Soil to Groundwater MSCs
- AOI Boundaries







Lead in Surface Soil

Inset 8

Former Philadelphia Refinery

Philadelphia, PA

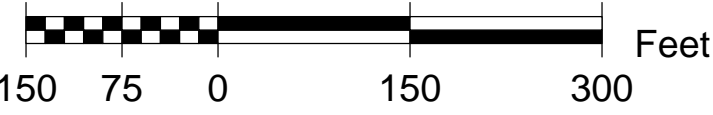
Drawn By: M. Fuerte / H. Pothier  
Designed By: C. Costello  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August 2021

Notes

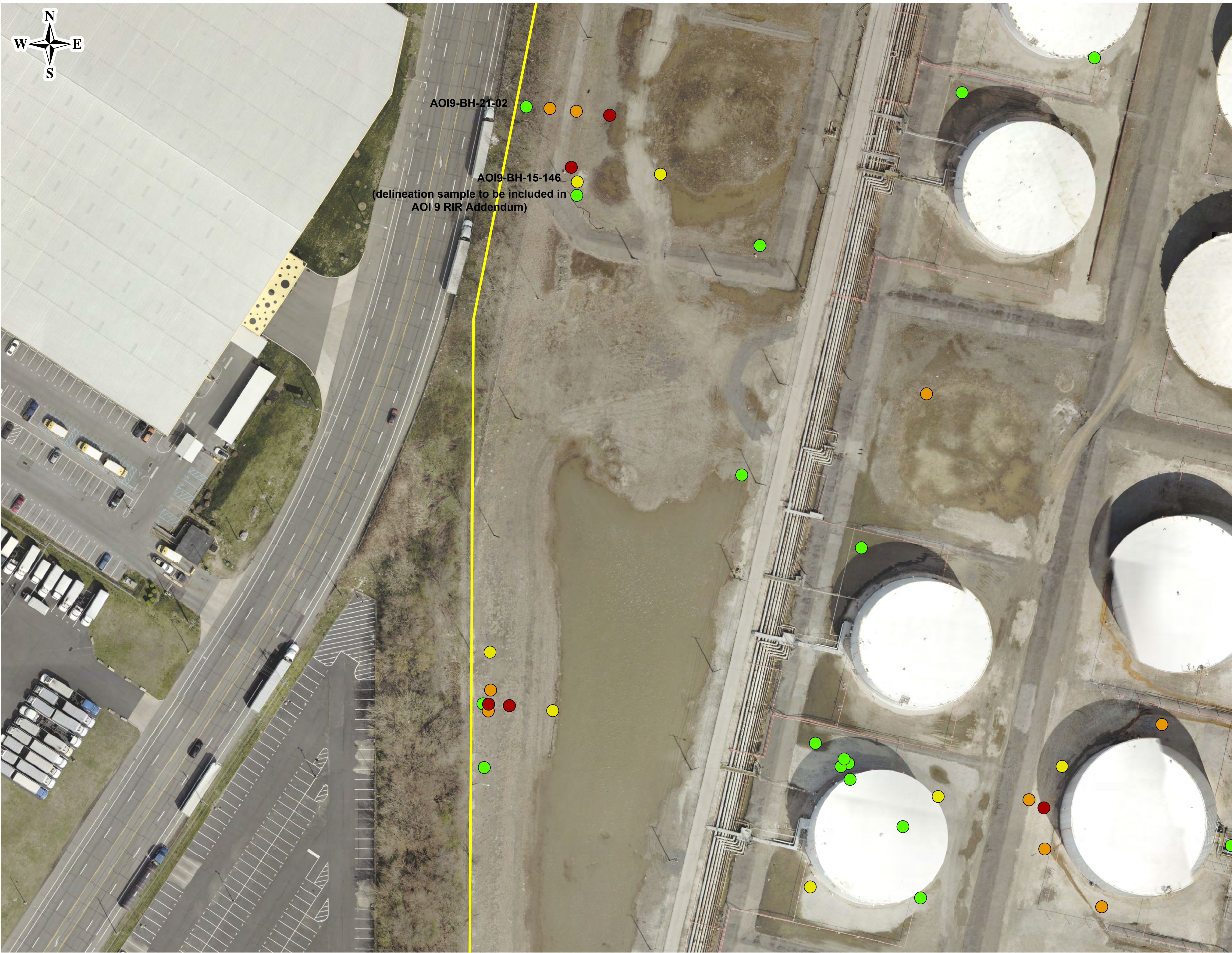
- 1. Surface Soil is data collected 0-2 ft below ground surface.
- 2. Soil data utilized for Figures are included in the Soil Summary Tables included in Attachment 4.
- 3. Service Layer Credits:Aerial Imagery provided by City of Philadelphia.

Legend

- Lead Exceeds Site Specific Standard
- Exceeds PADEP Nonresidential Statewide Health Direct Contact MSC
- Exceeds PADEP Nonresidential Statewide Health Soil to Groundwater MSC
- Does Not Exceed PADEP Nonresidential Statewide Health Direct Contact and Soil to Groundwater MSCs
- AOI Boundaries







Lead in Surface Soil

Inset 8A

Former Philadelphia Refinery

Philadelphia, PA

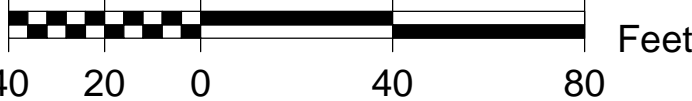
Drawn By: M. Fuerte / H. Pothier  
Designed By: C. Costello  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August 2021

Notes

- 1. Surface Soil is data collected 0-2 ft below ground surface.
- 2. Soil data utilized for Figures are included in the Soil Summary Tables included in Attachment 4.
- 3. Service Layer Credits:Aerial Imagery provided by City of Philadelphia.

Legend

- Lead Exceeds Site Specific Standard
- Exceeds PADEP Nonresidential Statewide Health Direct Contact MSC
- Exceeds PADEP Nonresidential Statewide Health Soil to Groundwater MSC
- Does Not Exceed PADEP Nonresidential Statewide Health Direct Contact and Soil to Groundwater MSCs
- AOI Boundaries







# Lead in Surface Soil

Inset 9

Former Philadelphia Refinery

Philadelphia, PA

Drawn By: M. Fuerte / H. Pothier  
Designed By: C. Costello  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August 2021

## Notes

1. Surface Soil is data collected 0-2 ft below ground surface.
2. Soil data utilized for Figures are included in the Soil Summary Tables included in Attachment 4.
3. Service Layer Credits:Aerial Imagery provided by City of Philadelphia.

## Legend

- Lead Exceeds Site Specific Standard
- Exceeds PADEP Nonresidential Statewide Health Direct Contact MSC
- Exceeds PADEP Nonresidential Statewide Health Soil to Groundwater MSC
- Does Not Exceed PADEP Nonresidential Statewide Health Direct Contact and Soil to Groundwater MSCs
- AOI Boundaries





© 2021 SANBORN HEAD & ASSOCIATES, INC.  
Last Edited By: zavoboda  
Path: P:\4700s\4796.00\Graphics Files\ArcGIS\Figures\20210215 Evergreen Cut Fill\Evergreen PIES - Sitewide Lead\_Overview.mxd



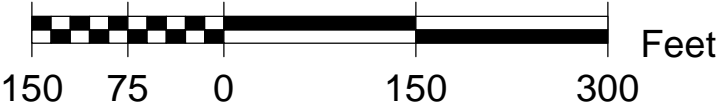
Lead in Surface Soil

Inset 10  
Former Philadelphia Refinery  
Philadelphia, PA

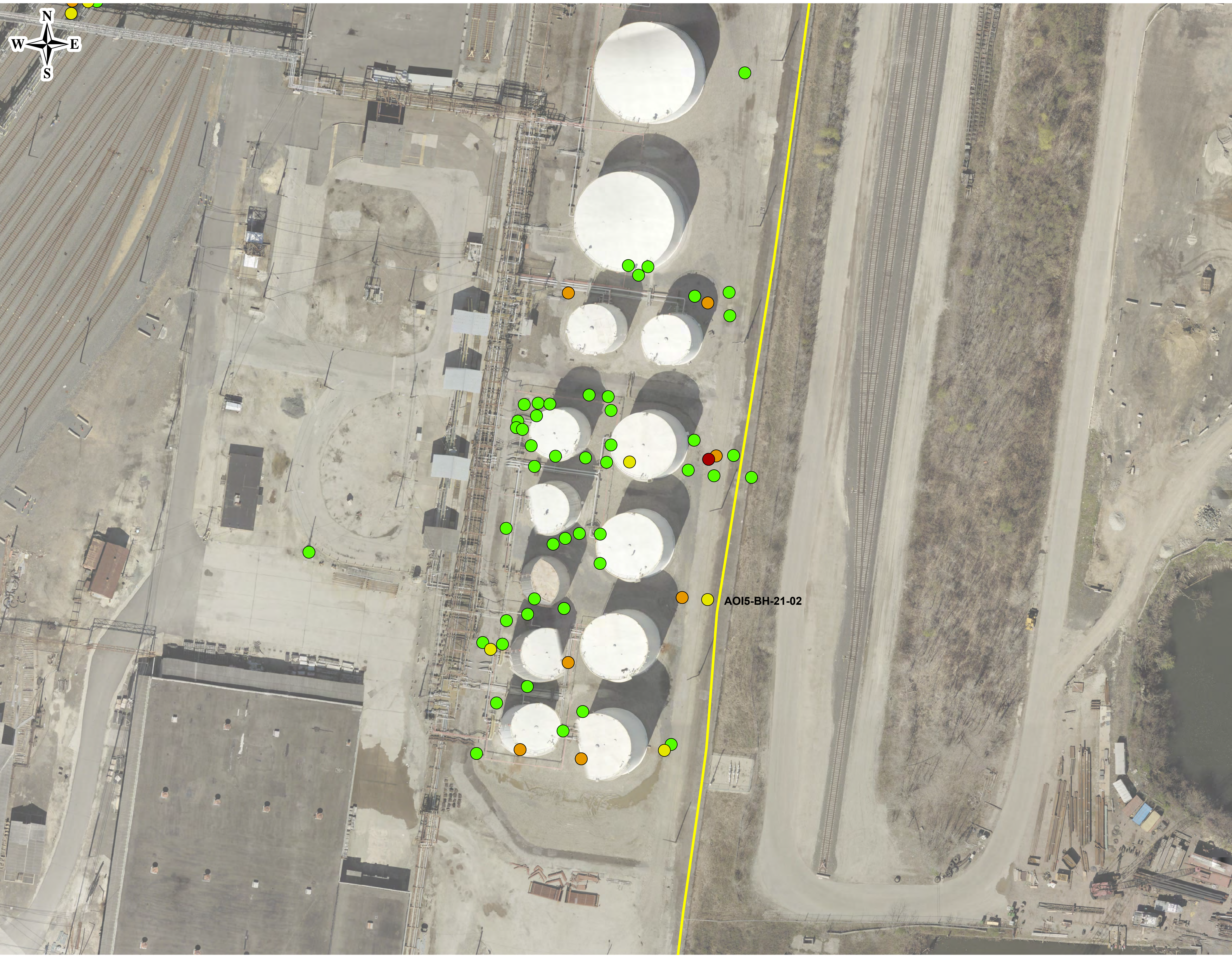
Drawn By: M. Fuerte / H. Pothier  
Designed By: C. Costello  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August 2021

- Notes
- 1. Surface Soil is data collected 0-2 ft below ground surface.
  - 2. Soil data utilized for Figures are included in the Soil Summary Tables included in Attachment 4.
  - 3. Service Layer Credits:Aerial Imagery provided by City of Philadelphia.

- Legend
- Lead Exceeds Site Specific Standard
  - Exceeds PADEP Nonresidential Statewide Health Direct Contact MSC
  - Exceeds PADEP Nonresidential Statewide Health Soil to Groundwater MSC
  - Does Not Exceed PADEP Nonresidential Statewide Health Direct Contact and Soil to Groundwater MSCs
  - AOI Boundaries







Lead in Surface Soil

Inset 10A  
Former Philadelphia Refinery  
Philadelphia, PA

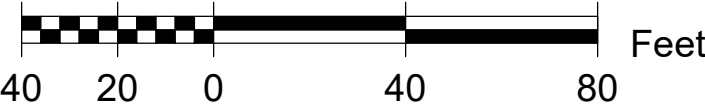
Drawn By: M. Fuerte / H. Pothier  
Designed By: C. Costello  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August 2021

Notes

- 1. Surface Soil is data collected 0-2 ft below ground surface.
- 2. Soil data utilized for Figures are included in the Soil Summary Tables included in Attachment 4.
- 3. Service Layer Credits:Aerial Imagery provided by City of Philadelphia.

Legend

- Lead Exceeds Site Specific Standard
- Exceeds PADEP Nonresidential Statewide Health Direct Contact MSC
- Exceeds PADEP Nonresidential Statewide Health Soil to Groundwater MSC
- Does Not Exceed PADEP Nonresidential Statewide Health Direct Contact and Soil to Groundwater MSCs
- AOI Boundaries







Lead in Surface Soil

Inset 10B  
Former Philadelphia Refinery  
Philadelphia, PA

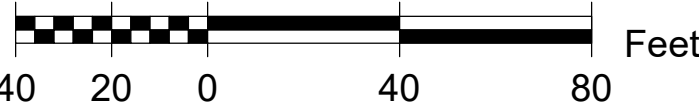
Drawn By: M. Fuerte / H. Pothier  
Designed By: C. Costello  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August 2021

Notes

- 1. Surface Soil is data collected 0-2 ft below ground surface.
- 2. Soil data utilized for Figures are included in the Soil Summary Tables included in Attachment 4.
- 3. Service Layer Credits:Aerial Imagery provided by City of Philadelphia.

Legend

- Lead Exceeds Site Specific Standard
- Exceeds PADEP Nonresidential Statewide Health Direct Contact MSC
- Exceeds PADEP Nonresidential Statewide Health Soil to Groundwater MSC
- Does Not Exceed PADEP Nonresidential Statewide Health Direct Contact and Soil to Groundwater MSCs
- AOI Boundaries





Zoning Map

Former Philadelphia Refinery

Philadelphia, PA

Drawn By: H. Pothier  
Designed By: C. Costello  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August 2021

Notes

- 1. Zoning information created on December 8, 2014 and downloaded from OpenDataPhilly on 8/20/2021.
- 2. Aerial imagery provided by Google Earth Pro. (October, 2020). Philadelphia, PA. 39°54'17.69"N, 75°12'4.07"W. Eye alt 17883 feet. [August, 2021].

Legend

- Commercial/Commercial Mixed-Use
- Industrial/Industrial Mixed-Use
- Residential/Residential Mixed-Use
- Special Purpose - Parks and Open Space
- Special Purpose - Institutional District
- AOI Boundaries
- AOI Boundaries - 1,000 ft buffer





Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					666-PE-1 14-May-13 666-PE-1(0.5-1.0) 0.5 - 1 ft LANCASTER 1390120	666-PE-2 14-May-13 666-PE-2(0.25-0.75) 0.25 - 0.75 ft LANCASTER 1390120	666-PE-3 14-May-13 666-PE-3(0.25-0.75) 0.25 - 0.75 ft LANCASTER 1390120	666-PE-4 14-May-13 666-PE-4(0.25-0.75) 0.25 - 0.75 ft LANCASTER 1390120	666-PE-5 14-May-13 666-PE-5(0.25-0.75) 0.25 - 0.75 ft LANCASTER 1390120	666-PE-6 14-May-13 666-PE-6(0.25-0.75) 0.25 - 0.75 ft LANCASTER 1390120	666-PE-7 14-May-13 666-PE-7(0.25-0.75) 0.25 - 0.75 ft LANCASTER 1390120	666-PE-8 14-May-13 666-PE-8(0.25-0.75) 0.25 - 0.75 ft LANCASTER 1390120	A-139 12-Jul-07 A-139_071207_1.5-2.0 1.5 - 2 ft UNKNOWN EZ_2007_Soil	A-140 6-Apr-09 A-140 0.5 - 2 ft LANCASTER UNKNOWN	A-140 12-Jul-07 A-140_071207_1.5-2.0 1.5 - 2 ft UNKNOWN EZ_2007_Soil	A-141 6-Apr-09 A-141 0.5 - 2 ft LANCASTER UNKNOWN
Laboratory Work Order		A MSC-PA SO to GW	B MSC-PA DC	C SSS	7057322	7057323	7057324	7057325	7057326	7057327	7057328	7057329	UNKNOWN	5640522	UNKNOWN	5640523
Laboratory Sample ID	Units															
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	636 <sup>A</sup>	687 <sup>A</sup>	198	107	26.0	311	2,200 <sup>AB</sup>	110	191	316	2,460 <sup>ABC</sup>	660 <sup>A</sup>

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					A-142 12-Jul-07 A-142_1.5-2.0 1.5 - 2 ft UNKNOWN EZ_2007_Soil	A-143 12-Jul-07 A-143_0712_1.5-2.0 1.5 - 2 ft UNKNOWN EZ_2007_Soil	A-144 6-Apr-09 A-144 0 - 2 ft LANCASTER UNKNOWN	A-150 7-Apr-09 A-150 0 - 2 ft LANCASTER UNKNOWN	A-151 12-Jul-07 A-151_071207_1.5-2.0 1.5 - 2 ft UNKNOWN EZ_2007_Soil	A-152 12-Jul-07 A-152_071207_1.5-2.0 1.5 - 2 ft UNKNOWN EZ_2007_Soil	A-153 8-Apr-09 A-153 0 - 2 ft LANCASTER UNKNOWN	A-155 7-Apr-09 A-155 0 - 2 ft LANCASTER UNKNOWN	A-156 9-Nov-12 A-156-2' 1 - 2 ft ACCUTEST JB20893	A-159 1-Nov-12 A-159_2' 1 - 2 ft ACCUTEST MC15595	A-160 2-Nov-12 A-160_2' 1 - 2 ft ACCUTEST MC15595	A-161 9-Nov-12 A-161-0-1' 0 - 1 ft ACCUTEST JB20893
Sample Date																
Sample ID																
Sample Depth																
Laboratory																
Laboratory Work Order																
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	UNKNOWN	UNKNOWN	5640524	5643352	UNKNOWN	UNKNOWN	5643368	5643353	JB20893-1	MC15595-1	MC15595-2	JB20893-2
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	377	446	156	190	112	110	37.4	446	204	158	163	1,380 <sup>AB</sup>

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					A-169 17-Jun-14 PH-AOI5_A-169_0-2_06172014	A-170 24-Jun-14 A-170_0-2' 0 - 2 ft ACCUTEST JB69675	A-171 25-Jun-14 A-171_0-2' 0 - 2 ft ACCUTEST JB70381	A-172 17-Jun-14 PH-AOI5_A-172_0-2_06172014	A-173 25-Jun-14 A-173_0-2' 0 - 2 ft ACCUTEST JB70381	A-174 26-Jun-14 A-174_0-2' 0 - 2 ft ACCUTEST JB70549	A-185 24-Jun-14 A-185_0-2' 0 - 2 ft ACCUTEST JB70262	A-186 27-Jun-14 A-186_0-2' 0 - 2 ft ACCUTEST JB70548R	AOI1-BH-21-01 7-Apr-21 AOI1-BH-21-01-0-0.25-20210407 0 - 0.25 ft LANCASTER 410-35275-1	AOI4-BH-21-01 7-Apr-21 AOI4-BH-21-01-0-2-20210407 0 - 2 ft LANCASTER 410-35275-1
Sample Date														
Sample ID														
Sample Depth														
Laboratory														
Laboratory Work Order														
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	JB69675-9	JB70262-1	JB70381-1	JB69675-11	JB70381-3	JB70549-1	JB70262-3	JB70548-1R	410-35275-8	410-35275-11
Metals														
LEAD, Total	mg/kg	450	1,000	2,240	402	97.2	229	86.0	196	222	92.2	37.1	430	250

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location Sample Date Sample ID Sample Depth Laboratory Laboratory Work Order Laboratory Sample ID					AOI5-BH-21-01 7-Apr-21 AOI5-BH-21-01-0-2-20210407 0 - 2 ft LANCASTER 410-35275-1 410-35275-9	AOI5-BH-21-02 7-Apr-21 AOI5-BH-21-02-0-2-20210407 0 - 2 ft LANCASTER 410-35275-1 410-35275-10	AOI6-BH-21-01 7-Apr-21 AOI6-BH-21-01-0-2-20210407 0 - 2 ft LANCASTER 410-35275-1 410-35275-12	AOI8-BH-21-01 7-Apr-21 AOI8-BH-21-01-0-2-20210407 0 - 2 ft LANCASTER 410-35275-1 410-35275-6	AOI8-BH-21-02 7-Apr-21 AOI8-BH-21-02-0-2-20210407 0 - 2 ft LANCASTER 410-35275-1 410-35275-5	AOI8-BH-21-03 7-Apr-21 AOI8-BH-21-03-0-2-20210407 0 - 2 ft LANCASTER 410-35275-1 410-35275-3	AOI8-BH-21-04 7-Apr-21 AOI8-BH-21-04-0-2-20210407 0 - 2 ft LANCASTER 410-35275-1 410-35275-4	AOI8-BH-21-05 7-Apr-21 AOI8-BH-21-05-0-2-20210407 0 - 2 ft LANCASTER 410-35275-1 410-35275-2	AOI8-BH-21-06 7-Apr-21 AOI8-BH-21-06-0-2-20210407 0 - 2 ft LANCASTER 410-35275-1 410-35275-1
	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	130	880 <sup>A</sup>	360	470 <sup>A</sup>	400	1,600 <sup>AB</sup>	390	250	10

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI9-BH-21-01 8-Apr-21	AOI9-BH-21-02 8-Apr-21	AOI9-BH-21-03 8-Apr-21	AOI9-BH-21-04 8-Apr-21	AOI9-BH-21-05 8-Apr-21	AOI9-BH-21-06 8-Apr-21	AOI9-BH-21-07 8-Apr-21	AOI9-BH-21-08 8-Apr-21	AOI9-BH-21-09 8-Apr-21
Sample Date					AOI9-BH-21-01-0-2-20210408	AOI9-BH-21-02-0-2-20210408	AOI9-BH-21-03-0-2-20210408	AOI9-BH-21-04-0-2-20210408	AOI9-BH-21-05-0-2-20210408	AOI9-BH-21-06-0-2-20210408	AOI9-BH-21-07-0-2-20210408	AOI9-BH-21-08-0-2-20210408	AOI9-BH-21-09-0-2-20210408
Sample ID					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Sample Depth					LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory					410-35275-1	410-35275-1	410-35275-1	410-35275-1	410-35275-1	410-35275-1	410-35275-1	410-35275-1	410-35275-1
Laboratory Work Order													
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	410-35275-22	410-35275-21	410-35275-24	410-35275-23	410-35275-19	410-35275-18	410-35275-17	410-35275-16	410-35275-20
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	910 <sup>A</sup>	350	1,700 <sup>AB</sup>	1,400 <sup>AB</sup>	2,800 <sup>ABC</sup>	1,800 <sup>AB</sup>	710 <sup>A</sup>	960 <sup>A</sup>	160

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI1_BH-14-001 15-May-15	AOI1_BH-14-002 15-May-15	AOI1_BH-14-003 22-May-15	AOI1_BH-14-004 27-May-15	AOI1_BH-14-005 27-May-15	AOI1_BH-14-006 27-May-15	AOI1_BH-14-007 15-May-15	AOI1_BH-14-008 20-May-15	AOI1_BH-14-009 20-May-15
Sample Date					AOI1_BH-14-001_0-2_051515	AOI1_BH-14-002_0-2_051515	AOI1_BH-14-003_0-2_052215	AOI1_BH-14-004_0-2_052715	AOI1_BH-14-005_0-2_052715	AOI1_BH-14-006_0-2_052715	AOI1_BH-14-007_0-2_051515	AOI1_BH-14-008_0-2_052015	AOI1_BH-14-009_0-2_052015
Sample ID					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Sample Depth					PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE
Laboratory					30148426	30148426	30148925	30149195	30149195	30149195	30148303	30148661	30148661
Laboratory Work Order					30148426001	30148426004	30148925001	30149195001	30149195002	30149195003	30148303005	30148661002	30148661001
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	130 J	497 J <sup>A</sup>	67.3	212	258	46.8	113	70.1	29.4

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI1_BH-14-010 19-May-15	AOI1_BH-14-011 6-May-15	AOI1_BH-14-012 8-May-15	AOI1_BH-14-013 11-May-15	AOI1_BH-14-017 12-May-15	AOI1_BH-14-018 26-Nov-14	AOI1_BH-14-019 26-Nov-14	AOI1_BH-14-020 25-Nov-14	AOI1_BH-14-021 25-Nov-14
Sample Date					AOI1_BH-14-010_0-2_051915	AOI1_BH-14-011_0-2_050615	AOI1_BH-14-012_0-2_050815	AOI1_BH-14-013_0-2_051115	AOI1_BH-14-017_0-2_051215	AOI-1_BH-14-018_0-2'_112614	AOI-1_BH-14-019_0-2'_112614	AOI-1_BH-14-020_0-2'_112514	AOI-1_BH-14-021_0-2'_112514
Sample ID					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Sample Depth					PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE
Laboratory					30148661	30147518	30147682	30147936	30147936	30135596	30135596	30135596	30135596
Laboratory Work Order					30148661004	30147518003	30147682005	30147936001	30147936003	30135596007	30135596005	30135596006	30135596004
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	359	28.2	13.9	524 <sup>A</sup>	133	389	285	262	49.2

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location Sample Date Sample ID Sample Depth Laboratory Laboratory Work Order Laboratory Sample ID					AOI1_BH-14-022 12-May-15 AOI1_BH-14-022_0-2_051215 0 - 2 ft PACE 30148047 30148047005	AOI1_BH-14-023 12-May-15 AOI1_BH-14-023_0-2_051215 0 - 2 ft PACE 30148047 30148047001	AOI1_BH-14-024 24-Feb-15 AOI-1_BH-14-024_0-2-022415 0 - 2 ft PACE 30141766 30141766001	AOI1_BH-14-025 28-Apr-15 AOI1_BH-14-025_0-2_042815 0 - 2 ft PACE 30146821 30146821001	AOI1_BH-14-026 24-Feb-15 AOI-1_BH-14-026_0-2-022415 0 - 2 ft PACE 30141766 30141766002	AOI1_BH-14-028 4-May-15 AOI1_BH-14-28_0-2_050415 0 - 2 ft PACE 30147402 30147402001	AOI1_BH-14-029 4-May-15 AOI1_BH-14-29_0-2_050415 0 - 2 ft PACE 30147402 30147402002	AOI1_BH-14-030 4-May-15 AOI1_BH-14-30_0-2_050415 0 - 2 ft PACE 30147402 30147402003	AOI1_BH-14-031 4-May-15 AOI1_BH-14-31_0-2_050415 0 - 2 ft PACE 30147402 30147402004
	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	207	45.7	542 <sup>A</sup>	174	1,510 <sup>AB</sup>	67.1	185	183	77.9

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI1_BH-14-032	AOI1_BH-14-033	AOI1_BH-14-034	AOI1_BH-14-035	AOI1_BH-14-036	AOI1_BH-14-038	AOI1_BH-14-039	AOI1_BH-14-040	AOI1_BH-14-041
Sample Date					12-May-15	12-May-15	12-May-15	14-May-15	14-May-15	1-May-15	16-Feb-15	16-Feb-15	16-Feb-15
Sample ID					AOI1_BH-14-032_0-2_051215	AOI1_BH-14-033_0-2_051215	AOI1_BH-14-034_0-2_051215	AOI1_BH-14-035_0-2_051415	AOI1_BH-14-036_0-2_051415	AOI1_BH-14-038_0-2_050115	AOI-1_BH-14-039_0-2_021615	AOI-1_BH-14-040_0-2_021615	AOI-1_BH-14-041_0-2_021615
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE
Laboratory Work Order					30147937	30147937	30147937	30148303	30148303	30147158	30141233	30141233	30141233
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	30147937003	30147937001	30147937002	30148303001	30148303002	30147158001	30141233003	30141233002	30141233001
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	3.4	184	371	2.0	218	3.7	181	241	518 <sup>A</sup>

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI1_BH-14-042	AOI1_BH-14-043	AOI1_BH-14-044	AOI1_BH-14-045	AOI1_BH-14-046	AOI1_BH-14-047	AOI1_BH-14-048	AOI1_BH-14-049	AOI10-BH-17-002
Sample Date					7-May-15	8-May-15	17-Feb-15	29-Apr-15	18-Feb-15	20-Nov-14	24-Nov-14	24-Nov-14	16-Jun-17
Sample ID					AOI1_BH-14-042_0-2_050715	AOI1_BH-14-043_0-2_050815	AOI-1_BH-14-044_0-2_021715	AOI1_BH-14-045_0-2_042915	AOI-1_BH-14-046_0-2_021815	AOI-1_BH-14-047_0-2_112014	AOI-1_BH-14-048_0-2'_112414	AOI-1_BH-14-049_0-2'_112414	AOI10-BH17-002-0-2-20170616
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	ESC
Laboratory Work Order					30147682	30147682	30141233	30146946	30141433	30135039	30135596	30135596	L916931
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	30147682001	30147682003	30141233006	30146946002	30141433005	30135039005	30135596002	30135596003	L916931-03
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	13.4	9.7	15.3	253	322	128	23.4	108	719 <sup>A</sup>

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI10-BH-17-003	AOI10-BH-17-011	AOI10-BH-17-012	AOI10-BH-17-013	AOI10-BH-17-014	AOI10-BH-21-01	AOI10-BH-21-02	AOI10-BH-21-03	AOI1-BH-15-002
Sample Date					16-Jun-17	15-Jun-17	15-Jun-17	15-Jun-17	15-Jun-17	8-Apr-21	8-Apr-21	8-Apr-21	24-Nov-15
Sample ID					AOI10-BH17-003-0-2-20170616	AOI10-BH-17-011-0-2-20170615	AOI10-BH-17-012-0-2-20170615	AOI10-BH-17-013-0-2-20170615	AOI10-BH-17-014-0-2-20170615	AOI10-BH-21-01-0-2-20210408	AOI10-BH-21-02-0-2-20210408	AOI10-BH-21-03-0-2-20210408	AOI1_BH-15-002_0-2_112415
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					ESC	ESC	ESC	ESC	ESC	LANCASTER	LANCASTER	LANCASTER	ACCUTEST
Laboratory Work Order		A	B	C	L916931	L916486	L916486	L916486	L916486	410-35275-1	410-35275-1	410-35275-1	JC9416
Laboratory Sample ID	Units	MSC-PA SO to GW	MSC-PA DC	SSS	L916931-01	L916486-04	L916486-03	L916486-01	L916486-02	410-35275-15	410-35275-14	410-35275-13	JC9416-2
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	43.5	318	274	281	135	600 <sup>A</sup>	120	640 <sup>A</sup>	6,280 <sup>ABC</sup>

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI1-BH-15-003 10-Dec-15	AOI1-BH-16-001 25-May-16	AOI1-BH-16-002 25-May-16	AOI1-BH-16-003 25-May-16	AOI1-BH-16-004 25-May-16	AOI2_BH-13-68 12-Mar-13	AOI2_BH-13-69 12-Mar-13	AOI2_BH-13-71 8-Mar-13	AOI2_BH-13-80 11-Mar-13	AOI-2_BH-13-52 14-Mar-13
Sample Date					AOI1_BH-15-003_1-2_121015	AOI1-BH-16-01-0.5-1.0	AOI1-BH-16-02-1.0-1.5	AOI1-BH-16-03-1.5-2.0	AOI1-BH-16-04-1.5-2.0	AOI2_BH-13-68_1-1.5_31213	AOI2_BH-13-69_0-1_31213	AOI2_BH-13-71_0-1_30813	AOI2_BH-13-80_0-1_31113	AOI-2_BH-13-52_0-2'
Sample ID					1 - 2 ft	0.5 - 1 ft	1 - 1.5 ft	1.5 - 2 ft	1.5 - 2 ft	1 - 1.5 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 2 ft
Sample Depth					ACCUTEST	LANCASTER	LANCASTER	LANCASTER	LANCASTER	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST
Laboratory					JC10341	1665922	1665922	1665922	1665922	JB31121	JB31121	JB30878	JB31121	JB31412
Laboratory Work Order					JC10341-1	8400231	8400233	8400235	8400237	JB31121-19	JB31121-18	JB30878-5	JB31121-3	JB31412-1
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS										
Metals														
LEAD, Total	mg/kg	450	1,000	2,240	1,550 <sup>AB</sup>	53.2	19.6	527 <sup>A</sup>	884 <sup>A</sup>	6.2	433	162	119	455 <sup>A</sup>

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI-2_BH-13-62 13-Mar-13	AOI-2_BH-13-64 13-Mar-13	AOI-2_BH-13-79 13-Mar-13	AOI2-BH-13-54 20-Mar-13	AOI2-BH-13-58 20-Mar-13	AOI2-BH-13-77 20-Mar-13	AOI2-BH-13-78 20-Mar-13	AOI2-BH-16-001 18-Jul-16	AOI2-BH-16-002 18-Jul-16
Sample Date					AOI-2_BH-13-62_0-1_31313	AOI-2_BH-13-64_0-2'	AOI-2_BH-13-79_0-2'	AOI2-BH-13-54_1.5-2_032013	AOI2-BH-13-58_1-1.5_032013	AOI2-BH-13-77_1.5-2_032013	AOI2-BH-13-78_1-1.5_032013	AOI2-BH-16-001-0-2-20160718	AOI2-BH-16-002-0-2-20160718
Sample ID					0 - 1 ft	0 - 2 ft	0 - 2 ft	1.5 - 2 ft	1 - 1.5 ft	1.5 - 2 ft	1 - 1.5 ft	0 - 2 ft	0 - 2 ft
Sample Depth					ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	PACE	PACE
Laboratory					JB31267	JB31267	JB31267	JB31923	JB31923	JB31923	JB31923	30191134	30191134
Laboratory Work Order					JB31267-6	JB31267-2	JB31267-5	JB31923-8	JB31923-3	JB31923-7	JB31923-2	30191134002	30191134001
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	410	3,540 <sup>ABC</sup>	12	38.1	44	34.8	32.8	12.5	9.5

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI2-BH-16-003	AOI2-BH-16-007	AOI2-BH-16-008	AOI2-BH-16-009	AOI2-BH-16-010	AOI2-BH-16-011	AOI2-BH-16-012	AOI2-BH-16-013	AOI2-BH-16-014
Sample Date					18-Jul-16	20-Jul-16	20-Jul-16	20-Jul-16	21-Jul-16	20-Jul-16	20-Jul-16	20-Jul-16	20-Jul-16
Sample ID					AOI2-BH-16-003-0-2-20160718	AOI2-BH-16-007-0-2-20160720	AOI2-BH-16-008-0-2-20160721	AOI2-BH-16-009-0-2-20160720	AOI2-BH-16-010-0-2-20160721	AOI2-BH-16-011-0-2-20160721	AOI2-BH-16-012-0-2-20160721	AOI2-BH-16-013-0-2-20160720	AOI2-BH-16-014-0-2-20160720
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE
Laboratory Work Order					30191134	30191135	30191135	30191135	30191135	30191135	30191135	30191135	30191135
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	30191134003	30191135003	30191135006	30191135002	30191135007	30191135008	30191135009	30191135004	30191135005
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	32.5	452 <sup>A</sup>	240	2,500 <sup>ABC</sup>	538 <sup>A</sup>	241	73.0	90.3	47.2

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI2-BH-16-015	AOI2-BH-16-016	AOI2-BH-16-017	AOI2-BH-16-018	AOI2-BH-16-019	AOI2-BH-16-020	AOI2-BH-16-021	AOI2-BH-16-022	AOI2-BH-16-023
Sample Date					20-Jul-16	27-Jul-16	28-Jul-16	27-Jul-16	25-Jul-16	22-Jul-16	25-Jul-16	28-Jul-16	20-Sep-16
Sample ID					AOI2-BH-16-015-0-2-20160720	AOI2-BH-16-016-0-2-20160727	AOI2-BH-16-017-0-2-20160728	AOI2-BH-16-018-0-2-20160727	AOI2-BH-16-019-0-2-20160725	AOI2-BH-16-020-0-2-20160722	AOI2-BH-16-021-0-2-20160725	AOI2-BH-16-022-0-2-20160728	AOI2-BH-16-023-0-2-20160920
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE
Laboratory Work Order					30191135	30191874	30191876	30191874	30191131	30191133	30191131	30191876	30196715
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	30191135001	30191874004	30191876002	30191874003	30191131001	30191133002	30191131003	30191876004	30196715001
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	17.8	76.7 J	24.1	9.5 J	7.5	8.7	ND (2.1)	6.7	47.6

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI2-BH-16-024	AOI2-WAREHOUSE #1	AOI2-WAREHOUSE #3	AOI2-WAREHOUSE#5	AOI3_BH-13-107	AOI3_BH-13-108	AOI3_BH-13-109	AOI3_BH-13-110	AOI3_BH-13-112
Sample Date					20-Sep-16	21-Mar-13	21-Mar-13	19-Mar-13	30-Jul-13	30-Jul-13	24-Jul-13	24-Jul-13	29-Jul-13
Sample ID					AOI2-BH-16-024-0-2-20160920	AOI2-WAREHOUSE #1_1.5-2_032113	AOI2-WAREHOUSE #3_1.5-2_032113	AOI2 WAREHOUSE #5_0-.5_31913	AOI3_BH-13-107_0-1_73013	AOI3_BH-13-108_1-2_73013	AOI3_BH-13-109_1-2_72413	AOI3_BH-13-110_0-1_72413	AOI3_BH-13-112_1-2_72913
Sample Depth					0 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	0 - 0.5 ft	0 - 1 ft	1 - 2 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Laboratory					PACE	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST
Laboratory Work Order					30196715	JB32086	JB32086	JB31794	JB43524	JB43524	JB43010	JB43010	JB43418
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	30196715002	JB32086-2	JB32086-1	JB31794-3	JB43524-1	JB43524-4	JB43010-3	JB43010-1	JB43418-6
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	15.4	8.9	3.4	3.1	17.8	46.9	93.7	507 <sup>A</sup>	104

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI3_BH-13-114 29-Jul-13	AOI3-BH-15-1 6-Oct-15	AOI3-BH-15-2 6-Oct-15	AOI3-BH-15-3 6-Oct-15	AOI3-BH-15-4 5-Oct-15	AOI3-BH-15-5 5-Oct-15	AOI3-BH-15-6 5-Oct-15	AOI3-BH-15-7 5-Oct-15	AOI3-BH-15-8 9-Oct-15	AOI3-BH-15-9 9-Oct-15
Sample Date					AOI3_BH-13-114_0-1_72913	AOI3_BH-15-1_0-2_100615	AOI3_BH-15-2_0-2_100615	AOI3_BH-15-3_0-2_100615	AOI3_BH-15-4_0-2_100515	AOI3_BH-15-5_0-2_100515	AOI3_BH-15-6_0-2_100515	AOI3_BH-15-7_0-2_100515	AOI3_BH-15-8_1-2_100915	AOI3_BH-15-9_1-2_100915
Sample ID					0 - 1 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	1 - 2 ft	1 - 2 ft
Sample Depth					ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST
Laboratory					JB43418	JC5537	JC5537	JC5537	JC5537	JC5537	JC5537	JC5537	JC5896	JC5896
Laboratory Work Order					JB43418-4	JC5537-8	JC5537-10	JC5537-6	JC5537-4	JC5537-3	JC5537-2	JC5537-1	JC5896-3	JC5896-4
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS										
Metals														
LEAD, Total	mg/kg	450	1,000	2,240	123	51.1	166	41.8	44.9	165	3,100 <sup>ABC</sup>	65.1	17.7	722 <sup>A</sup>

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI3-BH-15-10	AOI3-BH-16-001	AOI3-BH-16-002	AOI3-BH-16-003	AOI3-BH-16-004	AOI3-BH-16-005	AOI3-BH-16-006	AOI3-BH-16-007	AOI3-BH-16-008	AOI3-BH-16-009	AOI3-BH-16-010
Sample Date					9-Oct-15	9-Feb-16	9-Feb-16	9-Feb-16	9-Feb-16	10-Feb-16	1-Mar-16	1-Mar-16	1-Mar-16	1-Mar-16	1-Mar-16
Sample ID					AOI3_BH-15-10_1-2_100915	AOI3_BH-16-1_0-2_020916	AOI3_BH-16-2_0-2_020916	AOI3_BH-16-3_0-2_020916	AOI3_BH-16-4_0-2_020916	AOI3_BH-16-5_0-2_021016	AOI3_BH-16-6_0-2	AOI3_BH-16-7_0-2	AOI3_BH-16-8_0-2	AOI3_BH-16-9_0-2	AOI3_BH-16-10_0-2
Sample Depth					1 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					ACCUTEST	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE
Laboratory Work Order					JC5896	30173098	30173098	30173098	30173098	30173155	30175155	30175155	30175155	30175155	30175155
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	JC5896-5	30173098001	30173098002	30173098003	30173098004	30173155001	30175155001	30175155002	30175155003	30175155004	30175155005
Metals															
LEAD, Total	mg/kg	450	1,000	2,240	40.7	2,800 <sup>ABC</sup>	885 <sup>A</sup>	176	342	121	1,800 <sup>AB</sup>	796 <sup>A</sup>	2,270 <sup>ABC</sup>	844 <sup>A</sup>	409

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI3-BH-16-011 1-Mar-16	AOI4_BH-13-94 15-Mar-13	AOI4-BH-13-88 14-Mar-13	AOI4-BH-13-91 14-Mar-13	AOI4-BH-13-97 14-Mar-13	AOI4-BH-13-98 14-Mar-13	AOI4-BH-13-100 18-Mar-13	AOI4-BH-13-101 18-Mar-13	AOI4-BH-13-102 18-Mar-13	AOI4-BH-13-104 15-Mar-13
Sample Date					AOI3_BH-16-11_0-2	AOI-4_BH-13-94_0-2_031513	AOI4-BH-13-88_1.5-2_31413	AOI4-BH-13-91_0-2'_031413	AOI4-BH-13-97_0-1_31413	AOI4-BH-13-98-1-2_31413	AOI4-BH-13-100_0-1_31813	AOI4-BH-13-101_0-1_31813	AOI4-BH-13-102_0-1_31813	AOI4-BH-13-104_0-.5_31513
Sample ID					0 - 2 ft	0 - 2 ft	1.5 - 2 ft	0 - 2 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.5 ft
Sample Depth					PACE	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST
Laboratory					30175155	JB31583	JB31413	JB31413	JB31413	JB31413	JB31733	JB31733	JB31733	JB31583
Laboratory Work Order					30175155006	JB31583-1	JB31413-6	JB31413-9	JB31413-2	JB31413-4	JB31733-7	JB31733-5	JB31733-3	JB31583-5
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS										
Metals														
LEAD, Total	mg/kg	450	1,000	2,240	194	43.8	10.0	60.8	81.5	136	399	494 <sup>A</sup>	1,620 <sup>AB</sup>	7.0

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI4-BH-15-1 9-Oct-15 AOI4_BH-15-1_0-2_100915	AOI4-BH-16-001 21-Jun-16 AOI4-BH-16-001-0-2-20160621	AOI4-BH-16-002 21-Jun-16 AOI4-BH-16-002-0-2-20160621	AOI4-BH-16-003 24-Aug-16 AOI4-BH-16-003-0-2-20160824	AOI4-BH-16-004 24-Aug-16 AOI4-BH-16-004-0-2-20160824	AOI4-BH-16-005 23-Jun-16 AOI4-BH-16-005-0-2-20160623	AOI4-BH-16-006 23-Jun-16 AOI4-BH-16-006-0-2-20160623	AOI4-BH-16-007 27-Jun-16 AOI4-BH-16-007-0-2-20160627	AOI4-BH-16-008 14-Jun-16 AOI4-BH-16-008-0-2-20160614
Sample Date					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Sample ID					ACCUTEST	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Sample Depth					JC5896	L843252	L843252	L855702	L855702	L843656	L843656	L844277	L841529
Laboratory		A	B	C									
Laboratory Work Order		MSC-PA	MSC-PA		JC5896-1	L843252-06	L843252-05	L855702-03	L855702-01	L843656-05	L843656-03	L844277-05	L841529-01
Laboratory Sample ID	Units	SO to GW	DC	SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	9.7	11.2	6.60	8.18	12.2	14.4	8.07	7.79	1,760 J <sup>AB</sup>

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI4-BH-16-009	AOI4-BH-16-010	AOI4-BH-16-012	AOI4-BH-16-013	AOI4-BH-16-014	AOI4-BH-16-015	AOI4-BH-16-016	AOI4-BH-16-017	AOI4-BH-16-018
Sample Date					14-Jun-16	14-Jun-16	13-Jun-16	30-Jun-16	29-Jun-16	22-Jun-16	20-Jun-16	21-Jun-16	28-Jun-16
Sample ID					AOI4-BH-16-009-0-2-20160614	AOI4-BH-16-010-0-2-20160614	AOI4-BH-16-012-0-2-20160613	AOI4-BH-16-013-0-2-20160630	AOI4-BH-16-014-0-2-20160629	AOI4-BH-16-015-0-2-20160622	AOI4-BH-16-016-0-2-20160620	AOI4-BH-16-017-0-2-20160621	AOI4-BH-16-018-0-2-20160628
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Laboratory Work Order					L841529	L841529	L841529	L844813	L844813	L843252	L842835	L842835	L844277
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	L841529-02	L841529-03	L841529-05	L844813-03	L844813-01	L843252-01	L842835-01	L842835-04	L844277-01
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	1,490 J <sup>AB</sup>	160 J	1,080 J <sup>AB</sup>	255	57.6	310	370	9.54	6.97

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI4-BH-16-019 27-Jun-16	AOI4-BH-16-020 24-Jun-16	AOI4-BH-16-021 22-Jun-16	AOI4-BH-16-022 23-Jun-16	AOI5 BH-17-12 6-Aug-12	AOI5 BH-19-12 6-Aug-12	AOI5 BH-21-12 6-Aug-12	AOI5 BH-23-12 9-Aug-12	AOI5 BH-25-12 8-Aug-12	AOI5 BH-28-12 8-Aug-12	AOI5 BH-32-12 8-Aug-12
Sample Date					27-Jun-16	24-Jun-16	22-Jun-16	23-Jun-16	6-Aug-12	6-Aug-12	6-Aug-12	9-Aug-12	8-Aug-12	8-Aug-12	8-Aug-12
Sample ID					AOI4-BH-16-019-0-2-20160627	AOI4-BH-16-020-0-2-20160624	AOI4-BH-16-021-0-2-20160622	AOI4-BH-16-022-0-2-20160623	BH-17-12_5-1	BH-19-12_5-1	BH-21-12_5-1	BH-23-12_5-1	BH-25-12_5-1	BH-28-12_0-5	BH-32-12_5-1
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0 - 0.5 ft	0.5 - 1 ft
Laboratory					ESC	ESC	ESC	ESC	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory Work Order					L844277	L845360	L843252	L843656	1327576	1327576	1327576	1328172	1328172	1328172	1328172
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	L844277-03	L845360-01	L843252-03	L843656-07	6748680	6748681	6748682	6751687	6751684	6751685	6751681
Metals															
LEAD, Total	mg/kg	450	1,000	2,240	7.89	12.4	7.70	644 <sup>A</sup>	158	876 <sup>A</sup>	121	905 <sup>A</sup>	186	1,760 <sup>AB</sup>	232

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI5 BH-33-12	AOI5 BH-34-12	AOI5 BH-36-12	AOI5 BH-40-12	AOI5_BH-13-01	AOI5_BH-13-08	AOI5_BH-13-15	AOI5_BH-13-16	AOI5_BH-13-17	AOI5_BH-13-22
Sample Date					8-Aug-12	7-Aug-12	7-Aug-12	7-Aug-12	12-Mar-13	11-Mar-13	11-Mar-13	11-Mar-13	11-Mar-13	8-Mar-13
Sample ID					BH-33-12_5-1	BH-34-12_5-1	BH-36-12_5-1	BH-40-12_5-1	AOI5_BH-13-01_1.5-2_031213	AOI5_BH-13-08_1.5-2_031113	AOI5_BH-13-15_1.5-2_031113	AOI5_BH-13-16_1.5-2_031113	AOI5_BH-13-17_1.5-2_031113	AOI5_BH-13-22_1.5-2_030813
Sample Depth					0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft
Laboratory					LANCASTER	LANCASTER	LANCASTER	LANCASTER	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST
Laboratory Work Order					1328172	1327576	1327576	1327576	JB31121	JB31121	JB31121	JB31121	JB31121	JB30878
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	6751683	6748695	6748693	6748691	JB31121-17	JB31121-11	JB31121-9	JB31121-5	JB31121-7	JB30878-15
Metals														
LEAD, Total	mg/kg	450	1,000	2,240	545 <sup>A</sup>	77.8	493 <sup>A</sup>	1,360 <sup>AB</sup>	331	15.7	28.6	349	783 <sup>A</sup>	128

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI5_BH-13-25 8-Mar-13	AOI5_BH-13-26 8-Mar-13	AOI5_BH-13-28 7-Mar-13	AOI5_BH-13-29 6-Mar-13	AOI5_BH-13-30 7-Mar-13	AOI5_BH-13-31 6-Mar-13	AOI5_BH-13-33 7-Mar-13	AOI5_BH-13-34 6-Mar-13	AOI5_BH-13-35 6-Mar-13
Sample Date					AOI5_BH-13-25_1.5-2_030813	AOI5_BH-13-26_1.5-2_030813	AOI5_BH-13-28_1.5-2_30713	AOI5_BH-13-29_1-1.5_30613	AOI5_BH-13-30_1.5-2_30713	AOI5_BH-13-31_1.5-2_30613	AOI5_BH-13-33_1.5-2_30713	AOI5_BH-13-34_1.5-2_30613	AOI5_BH-13-35_1.5-2_30613
Sample ID					1 - 1.5 ft	1.5 - 2 ft	1.5 - 2 ft	1 - 1.5 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft
Sample Depth					ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST
Laboratory					JB30878	JB30878	JB30720	JB30589	JB30720	JB30589	JB30720	JB30589	JB30589
Laboratory Work Order					JB30878-17	JB30878-13	JB30720-11	JB30589-11	JB30720-10	JB30589-10	JB30720-9	JB30589-7	JB30589-6
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	79.5	1,190 <sup>AB</sup>	1,590 <sup>AB</sup>	195	446	365	1,090 <sup>AB</sup>	851 <sup>A</sup>	1,500 <sup>AB</sup>

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI5_BH-13-36	AOI5_BH-13-37	AOI5_BH-13-39	AOI5_BH-13-43	AOI5_BH-13-44	AOI5_BH-13-116	AOI5_BH-13-117	AOI5_BH-13-121	AOI5_BH-13-122
Sample Date					6-Mar-13	5-Mar-13	5-Mar-13	5-Mar-13	8-Mar-13	29-Oct-13	29-Oct-13	29-Oct-13	29-Oct-13
Sample ID					AOI5_BH-13-36_1.5-2_30613	AOI5_BH-13-37_1.5-2_030513	AOI5_BH-13-39_1.5-2_030513	BH-13-43-1.5-2_030513	AOI5_BH-13-44_1.5-2_030813	AOI-5_BH-13-116_0-5_102913	AOI-5_BH-13-117_0-5_102913	AOI-5_BH-13-121_102913_0-0.5	AOI-5_BH-13-122_0-5_102913
Sample Depth					1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Laboratory					ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST
Laboratory Work Order					JB30589	JB30425	JB30425	JB30425	JB30878	JB51634	JB51634	JB51634	JB51634
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	JB30589-5	JB30425-15	JB30425-12	JB30425-8	JB30878-14	JB51634-3	JB51634-4	JB51634-1	JB51634-2
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	201	284	1,120 <sup>AB</sup>	1,080 <sup>AB</sup>	950 <sup>A</sup>	724 <sup>A</sup>	704 <sup>A</sup>	1,160 <sup>AB</sup>	1,450 <sup>AB</sup>

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI5_BH-13-123 29-Oct-13 AOI-5_BH-13-123_0-.5_102913	AOI5_BH-13-124 29-Oct-13 AOI-5_BH-13-124_0-.5_102913	AOI5_BH-13-127 30-Oct-13 AOI-5_BH-13-127-0-1_103013	AOI5_BH-13-128 30-Oct-13 AOI-5_BH-13-128-0-1_103013	AOI5_BH-13-129 30-Oct-13 AOI-5_BH-13-129-0-1_103013	AOI5_BH-13-130 30-Oct-13 AOI-5_BH-13-130_0-1_103013	AOI5_BH-13-131 30-Oct-13 AOI-5_BH-13-131_0-1_103013	AOI5_BH-13-132 30-Oct-13 AOI-5_BH-13-132_0-1_103013	AOI5_BH-13-133 30-Oct-13 AOI-5_BH-13-133_0-1_103013
Sample Date					0 - 0.5 ft	0 - 0.5 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft
Sample ID					ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST
Sample Depth					JB51634	JB51634	JB51634	JB51634	JB51634	JB51634	JB51634	JB51634	JB51634
Laboratory													
Laboratory Work Order													
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	JB51634-5	JB51634-6	JB51634-16	JB51634-15	JB51634-14	JB51634-22	JB51634-21	JB51634-20	JB51634-19
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	1,780 <sup>AB</sup>	1,350 <sup>AB</sup>	62.9	115	171	52.8	48.5	47.6	74.8

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI5_BH-13-134 30-Oct-13	AOI5_BH-13-135 30-Oct-13	AOI5_BH-13-136 30-Oct-13	AOI5_BH-13-137 30-Oct-13	AOI5_BH-13-138 30-Oct-13	AOI5_BH-13-139 30-Oct-13	AOI5_BH-13-140 30-Oct-13	AOI5_BH-13-141 30-Oct-13	AOI5_BH-13-142 30-Oct-13
Sample Date					AOI-5_BH-13-134_0-1_103013	AOI-5_BH-13-135-0-1_103013	AOI5-BH-13-136_103013_0-1	AOI5-BH-13-137_103013_0-1	AOI5-BH-13-138_103013_0-1	AOI5-BH-13-139_103013_0-1	AOI5-BH-13-140_103013_0-1	AOI5-BH-13-141_103013_0-1	AOI5-BH-13-142_103013_0-1
Sample ID					0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft
Sample Depth					ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST
Laboratory					JB51634	JB51634	JB51758	JB51758	JB51758	JB51758	JB51758	JB51758	JB51758
Laboratory Work Order					JB51634-18	JB51634-17	JB51758-5	JB51758-6	JB51758-4	JB51758-3	JB51758-1	JB51758-2	JB51758-9
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	55.2	60.9	53.4	39.1	35.1	69.2	57.2	76.8	37.9

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI5_BH-13-143 30-Oct-13	AOI5_BH-13-145 30-Oct-13	AOI5_BH-13-146 30-Oct-13	AOI5_BH-13-147 30-Oct-13	AOI5_BH-13-148 30-Oct-13	AOI5_BH-13-149		AOI5_BH-13-150 30-Oct-13	AOI5_BH-13-151 30-Oct-13
Sample Date					AOI5-BH-13-143_103013_0-1	AOI5-BH-13-145_103013_0-1	AOI5-BH-13-146_103013_0-1	AOI5-BH-13-147_103013_0-1	AOI5-BH-13-148_103013_0-1	AOI5-BH-13-149_103013_0-1	AOI5-BH-13-DUP-103013_0-1	AOI5-BH-13-150_103013_0-1	AOI5-BH-13-151_103013_0-1
Sample ID					0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft
Sample Depth					ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST
Laboratory					JB51758	JB51758	JB51758	JB51758	JB51758	JB51758	JB51758	JB51758	JB51758
Laboratory Work Order													
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	JB51758-8	JB51758-13	JB51758-14	JB51758-11	JB51758-12	JB51758-10	JB51758-19	JB51758-15	JB51758-17
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	40.1	80.4	49.4	43.5	44.9	42.5	39.4	1,750 <sup>AB</sup>	1,020 <sup>AB</sup>

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI5_BH-13-152 30-Oct-13	AOI5_BH-13-153 30-Oct-13	AOI5_BH-13-154 29-Oct-13	AOI5_BH-13-155 29-Oct-13	AOI5_BH-13-156 29-Oct-13	AOI5_BH-13-158 29-Oct-13	AOI5_BH-13-159 29-Oct-13	AOI-5_BH-13-42 4-Mar-13	AOI5_BH-14-01 17-Mar-14	AOI5_BH-14-02 17-Mar-14
Sample Date					AOI5-BH-13-152_103013_0-1	AOI5-BH-13-153_103013_0-1	AOI-5_BH-13-154_0-0.5_102913	AOI-5_BH-13-155_0-.5_102913	AOI-5_BH-13-156_0-.5_102913	AOI-5_BH-13-158_0-1_102913	AOI-5_BH-13-159_0-1_102913	BH-13-42-1.5-2_030413	AOI5_BH-14-01	AOI5_BH-14-02
Sample ID					0 - 1 ft	0 - 1 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 1 ft	0 - 1 ft	1.5 - 2 ft	0 - 2 ft	0 - 2 ft
Sample Depth					ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST
Laboratory					JB51758	JB51758	JB51634	JB51634	JB51634	JB51634	JB51634	JB30309	JB62116	JB62116
Laboratory Work Order					JB51758-18	JB51758-16	JB51634-11	JB51634-12	JB51634-13	JB51634-10	JB51634-9	JB30309-8	JB62116-1	JB62116-2
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS										
Metals														
LEAD, Total	mg/kg	450	1,000	2,240	2,290 <sup>ABC</sup>	1,270 <sup>AB</sup>	1,840 <sup>AB</sup>	1,690 <sup>AB</sup>	1,350 <sup>AB</sup>	1,190 <sup>AB</sup>	158	496 <sup>A</sup>	175	2,130 <sup>AB</sup>

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI5_BH-14-03	AOI5_BH-14-04	AOI5_BH-14-05	AOI5_BH-14-06		AOI5_BH-14-07	AOI5_BH-14-08	AOI5_BH-14-09		AOI5_BH-14-10	AOI5_BH-14-11	AOI5_BH-14-12	AOI5_BH-14-13
Sample Date					17-Mar-14	17-Mar-14	18-Mar-14	14-Mar-14	14-Mar-14	14-Mar-14	14-Mar-14	18-Mar-14	6-Apr-09	18-Mar-14	18-Mar-14	18-Mar-14	18-Mar-14
Sample ID					AOI5_BH-14-03	AOI5_BH-14-04	AOI5_BH-14-05	AO15_BH-14-06	AO15_BH-14-DUP1	AO15_BH-14-07	AO15_BH-14-08	AOI5_BH-14-09	BH-14-09	AOI5_BH-14-10	AOI5_BH-14-11	AOI5_BH-14-12	AOI5_BH-14-13
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	1 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	LANCASTER	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST
Laboratory Work Order					JB62116	JB62116	JB62269	JB62032	JB62032	JB62032	JB62032	JB62269	UNKNOWN	JB62269	JB62269	JB62269	JB62269
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	JB62116-3	JB62116-4	JB62269-1	JB62032-1	JB62032-2	JB62032-4	JB62032-3	JB62269-2	5640518	JB62269-3	JB62269-4	JB62269-5	JB62269-6
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	47.1	40.6	45.7	1,570 <sup>AB</sup>	1,390 <sup>AB</sup>	1,800 <sup>AB</sup>	1,670 <sup>AB</sup>	37.9	285	27.5	38.3	99.9	29.5

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI5_BH-14-14	AOI5_BH-14-15	AOI5_BH-14-17	AOI5_BH-14-18	AOI5_BH-14-19	AOI5_BH-14-20	AOI5_BH-14-21	AOI5_BH-14-22	AOI5_BH-14-24	AOI5_BH-14-25	AOI5_BH-14-26	AOI5_BH-14-27
Sample Date					16-Jun-14	16-Jun-14	16-Jun-14	16-Jun-14	18-Jun-14	20-Jun-14	18-Jun-14	18-Jun-14	20-Jun-14	18-Jun-14	19-Jun-14	19-Jun-14
Sample ID					AOI-5_14-14_0-2'	AOI-5_14-15_0-2'	AOI-5_14-17_0-2'	AOI-5_14-18_0-2'	AOI-5_BH_14-19_0-2'	AOI-5_BH_14-20	AOI-5_BH_14-21_0-2'	AOI-5_BH_14-22_0-2'	AOI-5_BH_14-24_0-2'	AOI-5_BH_14-25_0-2'	AOI-5_BH_14-26_0-2'	AOI-5_BH_14-27_0-2'
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST
Laboratory Work Order					JB69566	JB69566	JB69566	JB69566	JB69808	JB69955	JB69808	JB69808	JB69955	JB69808	JB69955	JB69955
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	JB69566-7	JB69566-1	JB69566-5	JB69566-3	JB69808-9	JB69955-13	JB69808-1	JB69808-3	JB69955-12	JB69808-5	JB69955-10	JB69955-11
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	120	336	87.7	31.0	70.0	168	394	441	641 <sup>A</sup>	1,200 <sup>AB</sup>	51.2	60.7

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI5_BH-14-28	AOI5_BH-14-29	AOI5_BH-14-30	AOI5_BH-14-31	AOI5_BH-14-32	AOI5_BH-14-33	AOI5_BH-14-34	AOI5_BH-14-35	AOI5_BH-14-36	AOI5_BH-14-37	AOI5-BH-08-07	AOI5-BH-10-09
Sample Date					19-Jun-14	19-Jun-14	19-Jun-14	19-Jun-14	17-Jun-14	17-Jun-14	17-Jun-14	17-Jun-14	18-Jun-14	19-Jun-14	13-Jul-07	6-Apr-09
Sample ID					AOI-5_BH_14-28_0-2'	AOI-5_BH_14-29_0-2'	AOI-5_BH_14-30_0-2'	AOI-5_BH_14-31_0-2'	AOI-5-BH_14-32_0-2'	AOI-5-BH_14-33_0-2'	AOI-5-BH_14-34_0-2'	AOI-5-BH_14-35_0-2'	AOI-5_BH_14-36_0-2'	AOI-5_BH_14-37_0-2'	BH-08-07_.75-2	BH-10-09
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0.75 - 2 ft	0 - 2 ft
Laboratory					ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	UNKNOWN	LANCASTER
Laboratory Work Order					JB69955	JB69955	JB69955	JB69955	JB69675	JB69675	JB69675	JB69675	JB69808	JB69955	EZ_2007_Soil	UNKNOWN
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	JB69955-3	JB69955-9	JB69955-5	JB69955-7	JB69675-5	JB69675-1	JB69675-2	JB69675-8	JB69808-7	JB69955-1	UNKNOWN	5640517
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	153	1,330 <sup>AB</sup>	350	1,980 <sup>AB</sup>	344	1,520 <sup>AB</sup>	1,140 <sup>AB</sup>	376	37.9	181	506 <sup>A</sup>	441

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI5-BH-13-02	AOI5-BH-13-03	AOI5-BH-13-05	AOI5-BH-13-06	AOI5-BH-13-11	AOI5-BH-13-13	AOI5-BH-13-18	AOI5-BH-13-19	AOI6 BH-12-104	AOI6 BH-12-106	AOI6 BH-12-107	AOI6 BH-12-108
Sample Date					1-Mar-13	1-Mar-13	1-Mar-13	1-Mar-13	1-Mar-13	1-Mar-13	1-Mar-13	1-Mar-13	4-Dec-12	3-Dec-12	3-Dec-12	3-Dec-12
Sample ID					A015-BH-13-02_0-.5	A015-BH-13-03_0-.5	A015-BH-13-05_0-.5	A015-BH-13-06_0-.25	A015-BH-13-11_0-.25	A015-BH-13-13_0-.25	A015-BH-13-18_0-.25	A015-BH-13-19_5-1	BH-12-104_0.5-1'	BH-12-106_1-1.5'	BH-12-107_1-1.5'	BH-12-108_1'
Sample Depth					0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.25 ft	0 - 0.25 ft	0 - 0.25 ft	0 - 0.25 ft	0.5 - 1 ft	0.5 - 1 ft	1 - 1.5 ft	1 - 1.5 ft	0.5 - 1 ft
Laboratory					ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST
Laboratory Work Order					JB30169	JB30169	JB30169	JB30169	JB30169	JB30169	JB30169	JB30169	JB22962	JB22822	JB22822	JB22822
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	JB30169-2	JB30169-3	JB30169-1	JB30169-6	JB30169-5	JB30169-4	JB30169-8	JB30169-7	JB22962-14	JB22822-8	JB22822-2	JB22822-6
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	137	168	1,020 <sup>AB</sup>	485 <sup>A</sup>	239	1,310 <sup>AB</sup>	420	333	161	897 <sup>A</sup>	221	380

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI6 BH-12-111		AOI6 BH-12-112	AOI6 BH-12-114	AOI6 BH-12-115	AOI6 BH-12-119	AOI6 BH-12-120	AOI6 BH-12-122	AOI6 BH-12-123	AOI6 BH-12-129	AOI6 BH-12-130	AOI6 BH-12-131	AOI6 BH-12-135
Sample Date					3-Dec-12	3-Dec-12	3-Dec-12	3-Dec-12	3-Dec-12	4-Dec-12	4-Dec-12	3-Dec-12	4-Dec-12	4-Dec-12	4-Dec-12	4-Dec-12	5-Dec-12
Sample ID					BH-12-111_0.5-1'	BH-12-111_1-1.5'	BH-12-112_0.5-1'	BH-12-114_1-1.5'	BH-12-115_1-2'	BH-12-119_0.5-1'	BH-12-120_0-1'	BH-12-122_1-1.5'	BH-12-123_1-1.5'	BH-12-129_1.5-2'	BH-12-130_1-2'	BH-12-131_1-2'	BH-12-135_1-1.5'
Sample Depth					0.5 - 1 ft	1 - 1.5 ft	0.5 - 1 ft	1 - 1.5 ft	1 - 2 ft	0.5 - 1 ft	0 - 1 ft	1 - 1.5 ft	1 - 1.5 ft	1.5 - 2 ft	1 - 2 ft	1 - 2 ft	1 - 1.5 ft
Laboratory					ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST
Laboratory Work Order		A	B	C	JB22822	JB22822	JB22822	JB22822	JB22822	JB22962	JB22962	JB22822	JB22962	JB22962	JB22962	JB22962	JB23100
Laboratory Sample ID	Units	MSC-PA SO to GW	MSC-PA DC	SSS	JB22822-10	JB22822-11	JB22822-1	JB22822-15	JB22822-12	JB22962-11	JB22962-13	JB22822-18	JB22962-1	JB22962-6	JB22962-15	JB22962-16	JB23100-11
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	163	34.6	427	49.1	126	237	309	75.2	224	48.0	84.4	111	106

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI6 BH-12-136	AOI6 BH-12-137	AOI6 BH-12-138	AOI6 BH-12-139	AOI6 BH-12-140	AOI6 BH-12-144	AOI6 BH-12-146	AOI6 BH-12-147	AOI6 BH-12-148	AOI6 BH-12-149	AOI6-BH-16-001	AOI6-BH-16-002
Sample Date					5-Dec-12	5-Dec-12	5-Dec-12	5-Dec-12	5-Dec-12	5-Dec-12	5-Dec-12	5-Dec-12	5-Dec-12	4-Dec-12	12-Apr-16	12-Apr-16
Sample ID					BH-12-136_1-1.5'	BH-12-137_0-1'	BH-12-138_0-1'	BH-12-139_1-1.5'	BH-12-140_0-0.5'	BH-12-144_0-0.5'	BH-12-146_0-1'	BH-12-147_1-1.5'	BH-12-148_0-1'	BH-12-149_1-1.5'	AOI6-BH-16-001-0-2-SOIL	AOI6-BH-16-002-0-2-SOIL
Sample Depth					1 - 1.5 ft	0 - 1 ft	0 - 1 ft	1 - 1.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 1 ft	1 - 1.5 ft	0 - 1 ft	1 - 1.5 ft	1 - 1.5 ft	1 - 1.5 ft
Laboratory					ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	LANCASTER	LANCASTER
Laboratory Work Order					JB23100	JB23100	JB23100	JB23100	JB23100	JB23100	JB23100	JB23100	JB23100	JB22962	1651423	1651423
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	JB23100-9	JB23100-10	JB23100-6	JB23100-8	JB23100-3	JB23100-5	JB23100-4	JB23100-2	JB23100-1	JB22962-4	8336826	8336823
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	853 <sup>A</sup>	137	483 <sup>A</sup>	1,120 <sup>AB</sup>	766 <sup>A</sup>	17.1	184	286	745 <sup>A</sup>	27.9	288	180

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI6-BH-16-003		AOI6-BH-16-004		AOI6-BH-16-005	AOI6-BH-16-006		AOI6-BH-16-007	AOI6-BH-16-008	AOI6-BH-16-009
Sample Date					12-Apr-16	21-Apr-16	21-Apr-16	21-Apr-16	12-Apr-16	22-Apr-16	22-Apr-16	8-Apr-16	8-Apr-16	8-Apr-16
Sample ID					AOI6-BH-16-003-0-2-SOIL	AOI6-BH-16-004-0-2-SOIL	AOI6-BH16-DUP-SOIL-002	AOI6-BH-16-004-2-4-SOIL	AOI6-BH-16-005-0-2-SOIL	AOI6-BH-16-006-0-2-SOIL	AOI6-BH-16-006-2-4-SOIL	AOI6-BH-16-007-0-2-SOIL	AOI6-BH-16-008-0-2-SOIL	AOI6-BH-16-009-0-2-SOIL
Sample Depth					0 - 0.5 ft	0.75 - 1.75 ft	0.75 - 1.75 ft	1.75 - 2.3 ft	0 - 0.5 ft	1 - 1.5 ft	1.5 - 2.25 ft	1 - 2 ft	1 - 2 ft	1.5 - 1.75 ft
Laboratory					LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory Work Order					1651423	1653975	1653975	1653975	1651423	1653975	1653975	1649742	1649742	1649742
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	8336825	8349805	8349806	8349807	8336824	8349808	8349809	8329537	8329540	8329542
Metals														
LEAD, Total	mg/kg	450	1,000	2,240	549 <sup>A</sup>	399	529 <sup>A</sup>	189	68.7	142	225	803 <sup>A</sup>	298	149

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI6-BH-16-010	AOI6-BH-16-011	AOI6-BH-16-012		AOI6-BH-16-013	AOI6-BH-16-014	AOI6-BH-16-015	AOI6-BH-16-016	AOI6-BH-16-017	AOI6-BH-16-018
Sample Date					11-Apr-16	11-Apr-16	11-Apr-16	11-Apr-16	11-Apr-16	5-Apr-16	5-Apr-16	4-Apr-16	11-Apr-16	11-Apr-16
Sample ID					AOI6-BH-16-010-0-2-SOIL	AOI6-BH-16-011-0-2-SOIL	AOI6-BH16-012-0-2-SOIL-B	AOI6-BH-16-012-0-2-SOIL	AOI6-BH-16-013-0-2-SOIL	AOI6-BH-16-014-0-2-SOIL	AOI6-BH-16-015-0-2-SOIL	AOI6-BH-16-016-0-2-SOIL	AOI6-BH-16-017-0-2-SOIL	AOI6-BH-16-018-0-2-SOIL
Sample Depth					0.5 - 0.9 ft	0.5 - 0.83 ft	0.5 - 1 ft	1 - 1.1 ft	0.5 - 1 ft	1 - 1.5 ft	1.5 - 2 ft	1 - 1.5 ft	0.5 - 1 ft	0.75 - 1 ft
Laboratory					LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory Work Order		A	B	C	1649742	1649742	1649742	1649742	1649742	1647893	1647893	1647893	1649742	1649742
Laboratory Sample ID	Units	MSC-PA SO to GW	MSC-PA DC	SSS	8329545	8329546	8329549	8329548	8329550	8321192	8321190	8321184	8329544	8329543
Metals														
LEAD, Total	mg/kg	450	1,000	2,240	1,460 <sup>AB</sup>	734 <sup>A</sup>	141	194	32.0	344	671 <sup>A</sup>	313	180	138

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location Sample Date Sample ID Sample Depth Laboratory Laboratory Work Order Laboratory Sample ID					21-Apr-16 AOI6-BH-16-019-0-2-SOIL 0.8 - 1.8 ft LANCASTER 1653975	AOI6-BH-16-019 21-Apr-16 AOI6-BH16-DUP-SOIL-001 0.8 - 1.8 ft LANCASTER 1653975	21-Apr-16 AOI6-BH-16-019-2-4-SOIL 1.8 - 3 ft LANCASTER 1653975	AOI6-BH-16-020 21-Apr-16 AOI6-BH-16-020-0-2-SOIL 0 - 1.1 ft LANCASTER 1653975	AOI6-BH-16-021 21-Apr-16 AOI6-BH-16-021-0-2-SOIL 0 - 0.5 ft LANCASTER 1653975	AOI6-BH-16-022 6-Apr-16 AOI6-BH-16-022-0-2-SOIL 0.5 - 1 ft LANCASTER 1648963	AOI6-BH-16-023 21-Apr-16 AOI6-BH-16-023-0-2-SOIL 1.5 - 1.9 ft LANCASTER 1653975	22-Apr-16 AOI6-BH-16-025-0-2-SOIL 1.5 - 1.9 ft LANCASTER 1653975	AOI6-BH-16-025 22-Apr-16 AOI6-BH16-DUP-04-22-16-003 1.5 - 1.9 ft LANCASTER 1653975	22-Apr-16 AOI6-BH-16-025-2-4-SOIL 1.9 - 2.2 ft LANCASTER 1653975
Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS		8349802	8349803	8349804	8349801	8349800	8325910	8349798	8349810	8349812	8349811
Metals														
LEAD, Total	mg/kg	450	1,000	2,240	2,920 <sup>ABC</sup>	6,690 <sup>ABC</sup>	1,370 <sup>AB</sup>	199	223	236	393	10.3	10.2	64.3

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI6-BH-16-026	AOI6-BH-16-027	AOI6-BH-16-028	AOI6-BH-16-029	AOI6-BH-16-030	AOI6-BH-16-031	AOI6-BH-16-032	AOI6-BH-16-033	AOI6-BH-16-034	AOI6-BH-16-035
Sample Date					22-Apr-16	13-Apr-16	13-Apr-16	13-Apr-16	14-Apr-16	14-Apr-16	13-Apr-16	13-Apr-16	13-Apr-16	13-Apr-16
Sample ID					AOI6-BH-16-026-0-2-SOIL	AOI6-BH-16-027-0-2-SOIL	AOI6-BH-16-028-0-2-SOIL	AOI6-BH-16-029-0-2-SOIL	AOI6-BH-16-030-0-2-SOIL	AOI6-BH-16-031-0-2-SOIL	AOI6-BH-16-032-0-2-SOIL	AOI6-BH-16-033-0-2-SOIL	AOI6-BH-16-034-0-2-SOIL	AOI6-BH-16-035-0-2-SOIL
Sample Depth					0.4 - 1.3 ft	1.75 - 2 ft	0.25 - 0.5 ft	1.75 - 2 ft	1.5 - 2 ft	1 - 2 ft	1 - 2 ft	1.5 - 2 ft	1.5 - 1.75 ft	1.5 - 2 ft
Laboratory					LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory Work Order					1653975	1651423	1651423	1651423	1651423	1651423	1651423	1651423	1651423	1651423
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	8349813	8336830	8336829	8336827	8336847	8336849	8336838	8336836	8336834	8336832
Metals														
LEAD, Total	mg/kg	450	1,000	2,240	61.8	20.0	159	138	66.0	5.63	10.3	12.8	14.0	10.0

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI6-BH-16-036	AOI6-BH-16-037		AOI6-BH-16-038	AOI6-BH-16-039	AOI6-BH-16-040		AOI6-BH-16-041		AOI6-BH-16-043
Sample Date					14-Apr-16	14-Apr-16	14-Apr-16	14-Apr-16	11-Apr-16	7-Apr-16	7-Apr-16	7-Apr-16	7-Apr-16	7-Apr-16
Sample ID					AOI6-BH-16-036-0-2-SOIL	AOI6-BH-16-037-0-2-SOIL	AOI6-BH-16-037-2-4-SOIL	AOI6-BH-16-038-0-2-SOIL	AOI6-BH-16-039-0-2-SOIL	AOI6-BH-16-040-0-2-SOIL	AOI6-BH-16-040-2-4-SOIL	AOI6-BH-16-041-0-2-SOIL	AOI6-BH-16-041-2-4-SOIL	AOI6-BH-16-43-0-2-SOIL
Sample Depth					1.25 - 1.75 ft	1 - 1.75 ft	1.75 - 2.25 ft	1.5 - 1.75 ft	0.5 - 0.6 ft	0.5 - 0.75 ft	1.75 - 2 ft	0.75 - 1.25 ft	1.75 - 2.25 ft	0.5 - 1 ft
Laboratory					LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory Work Order					1651423	1651423	1651423	1651423	1649742	1648963	1648963	1648963	1648963	1648963
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	8336841	8336843	8336844	8336845	8329547	8325909	8325914	8325916	8325912	8325911
Metals														
LEAD, Total	mg/kg	450	1,000	2,240	60.8	100	105	33.1	7.22	249	142	3,820 <sup>ABC</sup>	196	331

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location Sample Date Sample ID Sample Depth Laboratory Laboratory Work Order Laboratory Sample ID					AOI6-BH-17-01 6-Jan-17 AOI6-BH-17-01-0-2-SOIL 0 - 2 ft LANCASTER 1751531 8776347	AOI6-BH-17-02 6-Jan-17 AOI6-BH-17-02-0-2-SOIL 0 - 2 ft LANCASTER 1751531 8776346	AOI6-BH-17-03 6-Jan-17 AOI6-BH-17-03-0-2-SOIL 0 - 2 ft LANCASTER 1751531 8776339	AOI6-BH-17-04 6-Jan-17 AOI6-BH-17-04-0-2-SOIL 0 - 2 ft LANCASTER 1751531 8776340	AOI6-BH-17-05 6-Jan-17 AOI6-BH-17-05-0-2-SOIL 0 - 2 ft LANCASTER 1751531 8776342	AOI6-BH-17-09 6-Jan-17 AOI6-BH-17-09-0-2-SOIL 0 - 2 ft LANCASTER 1751531 8776344	AOI6-BH-19-001 15-Apr-19 AOI6-BH-19-001-0-2' 0 - 2 ft ESC L1090723 L1090723-01	AOI7 BH-12-46 29-Nov-12 BH-12-46_0.5' 0 - 0.5 ft ACCUTEST JB22561 JB22561-8	AOI7 BH-12-47 29-Nov-12 BH-12-47_1.5' 1 - 1.5 ft ACCUTEST JB22561 JB22561-9	AOI7 BH-12-55 30-Nov-12 BH-12-55_1.5' 1 - 1.5 ft ACCUTEST JB22549 JB22549-3	AOI7 BH-12-56 28-Nov-12 BH-12-56_2' 1.5 - 2 ft LANCASTER 1352569 6876917	AOI7 BH-12-67 29-Nov-12 BH-12-67_2' 1.5 - 2 ft ACCUTEST JB22561 JB22561-4
	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS												
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	211	234	899 <sup>A</sup>	7,490 <sup>ABC</sup>	770 <sup>A</sup>	34.3	1,490 <sup>AB</sup>	121	2,060 <sup>AB</sup>	112	743 <sup>A</sup>	583 <sup>A</sup>

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI7 BH-12-68	AOI7 BH-12-69	AOI7 BH-12-70	AOI7 BH-12-74	AOI7 BH-12-75		AOI7 BH-12-76	AOI7 BH-12-78		AOI7 BH-12-79	AOI7 BH-12-82	AOI7 BH-12-83	AOI7 BH-12-85
Sample Date					29-Nov-12	29-Nov-12	28-Nov-12	28-Nov-12	28-Nov-12	28-Nov-12	28-Nov-12	27-Nov-12	27-Nov-12	27-Nov-12	27-Nov-12	27-Nov-12	27-Nov-12
Sample ID					BH-12-68_1.5'	BH-12-69_2'	BH-12-70_2'	BH-12-74_1'	BH-12-75_1'	BH-12-75_2'	BH-12-76_1'	BH-12-78_1.0'	BH-12-78_2.0'	BH-12-79_1.0'	BH-12-82_1.0'	BH-12-83_1.0'	BH-12-85_1.5'
Sample Depth					1 - 1.5 ft	1.5 - 2 ft	1.5 - 2 ft	0.5 - 1 ft	0.5 - 1 ft	1.5 - 2 ft	0.5 - 1 ft	0.5 - 1 ft	1.5 - 2 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	1 - 1.5 ft
Laboratory					ACCUTEST	ACCUTEST	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST
Laboratory Work Order		A	B	C	JB22561	JB22561	1352569	1352569	1352569	1352569	1352569	JB22267	JB22267	JB22267	JB22267	JB22267	JB22267
Laboratory Sample ID	Units	MSC-PA SO to GW	MSC-PA DC	SSS	JB22561-6	JB22561-1	6876924	6876913	6876926	6876914	6876910	JB22267-15	JB22267-16	JB22267-13	JB22267-14	JB22267-9	JB22267-7
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	240	14.7	13.8	254	335	551 <sup>A</sup>	143	237	128	498 <sup>A</sup>	116	16.2	145

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI7 BH-12-87 27-Nov-12 BH-12-87_1.0' 0.5 - 1 ft ACCUTEST JB22267	AOI7 BH-12-91 27-Nov-12 BH-12-91_0.5' 0 - 0.5 ft ACCUTEST JB22267	AOI7 BH-12-92 27-Nov-12 BH-12-92_0.5' 0 - 0.5 ft ACCUTEST JB22267	AOI7 BH-12-94 27-Nov-12 BH-12-94_1.0' 0.5 - 1 ft ACCUTEST JB22267	AOI7 BH-12-98 28-Nov-12 BH-12-98_1' 0.5 - 1 ft LANCASTER 1352569	AOI7 BH-12-99 28-Nov-12 BH-12-99_0.5' 0 - 0.5 ft LANCASTER 1352569	AOI7-BH-13-45 13-Mar-13 AOI7-BH-13-45_1.5-2_031313 1.5 - 2 ft ACCUTEST JB31265	AOI7-BH-13-46 13-Mar-13 AOI7-BH-13-46_1.5-2_031313 1.5 - 2 ft ACCUTEST JB31265	AOI7-BH-13-47 13-Mar-13 AOI7-BH-13-47_1.5-2_031313 1.5 - 2 ft ACCUTEST JB31265	AOI7-BH-13-48 13-Mar-13 AOI7-BH-13-48_1.5-2_031313 1.5 - 2 ft ACCUTEST JB31265	AOI7-BH-13-50 19-Mar-13 AOI7-BH-13-50_0-0.5_031913 0 - 0.5 ft ACCUTEST JB31794	
Sample Date																
Sample ID																
Sample Depth																
Laboratory																
Laboratory Work Order																
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	JB22267-4	JB22267-1	JB22267-2	JB22267-3	6876922	6876923	JB31265-3	JB31265-7	JB31265-5	JB31265-1	JB31794-2	
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	870 <sup>A</sup>	291	30.2	1,340 <sup>AB</sup>	955 <sup>A</sup>	341	498 <sup>A</sup>	237	866 <sup>A</sup>	275	281	

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI7-BH-16-001 1-Jul-16	AOI7-BH-16-002 12-Jul-16	AOI7-BH-16-003 12-Jul-16	AOI7-BH-16-005 28-Jun-16	AOI7-BH-16-006 28-Jun-16	AOI7-BH-16-007 28-Jun-16	AOI7-BH-16-008 28-Jun-16	AOI7-BH-16-009 28-Jun-16	AOI7-BH-16-010 28-Jun-16
Sample Date					AOI7-BH-16-001-0-2-070116	AOI7-BH-16-002-0-2-071216	AOI7-BH-16-003-0-2-071216	AOI7-BH-16-005-0-2-062816	AOI7-BH-16-006-0-2-062816	AOI7-BH-16-007-0-2-062816	AOI7-BH-16-008-0-2-062816	AOI7-BH-16-009-062816-0-2	AOI7-BH-16-010-062816-0-2
Sample ID					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Sample Depth					LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory					1679350	1682473	1682473	1678008	1678008	1678008	1678008	1678008	1678008
Laboratory Work Order					8460987	8473663	8473664	8455730	8455727	8455729	8455728	8455725	8455721
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	10.2	98.3	ND (13.4)	130	63.6	241	85.4	526 <sup>A</sup>	399

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI7-BH-16-011 28-Jun-16	AOI7-BH-16-012 28-Jun-16	AOI7-BH-16-013 29-Jun-16	AOI7-BH-16-014 29-Jun-16	AOI7-BH-16-015 29-Jun-16	AOI7-BH-16-016 28-Jun-16	AOI7-BH-16-019 6-Jul-16	AOI7-BH-16-020	
Sample Date					AOI7-BH-16-011-062816-0-2	AOI7-BH-16-012-062816-0-2	AOI7-BH-16-013-0-2-062916	AOI7-BH-16-014-0-2-062916	AOI7-BH-16-015-0-2-062916	AOI7-BH-16-016-062816-0-2	AOI7-BH-16-019-0-2-070616	AOI7-BH-16-020-0-2-062816	AOI7-BH-16-020-0-2-070116
Sample ID					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Sample Depth					LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory					1678008	1678008	1678008	1678008	1678008	1678008	1680744	1678008	1679350
Laboratory Work Order		A MSC-PA SO to GW	B MSC-PA DC	C SSS									
Laboratory Sample ID	Units				8455723	8455722	8455736	8455739	8455734	8455726	8466410	8455731	8460999
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	321	295	418	566 <sup>A</sup>	386	21.4	117	13.9	351

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI7-BH-16-021 30-Jun-16	AOI7-BH-16-022 5-Jul-16	AOI7-BH-16-023 1-Jul-16	AOI7-BH-16-024 7-Jul-16	AOI7-BH-16-025 1-Jul-16	AOI7-BH-16-026 1-Jul-16	AOI7-BH-16-027 7-Jul-16	AOI7-BH-16-028 12-Jul-16	AOI7-BH-16-032 12-Jul-16
Sample Date					AOI7-BH-16-021-0-2-063016	AOI7-BH-16-022-0-2-070516	AOI7-BH-16-023-0-2-070116	AOI7-BH-16-024-0-2-070716	AOI7-BH-16-025-0-2-070116	AOI7-BH-16-026-0-2-070116	AOI7-BH-16-027-0-2-070716	AOI7-BH-16-028-0-2-071216	AOI7-BH-16-032-0-2-071216
Sample ID					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Sample Depth					LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory					1679350	1680744	1679350	1680744	1679350	1679350	1680744	1682473	1682473
Laboratory Work Order					8460978	8466399	8460992	8466411	8460993	8460990	8466408	8473666	8473667
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	77.5	119	268	6.35	533 <sup>A</sup>	50.3	5.12	499 <sup>A</sup>	8.24

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI7-BH-16-034	AOI7-BH-16-035	AOI7-BH-16-036	AOI7-BH-16-037	AOI7-BH-16-038	AOI7-BH-16-039	AOI7-BH-16-040	AOI7-BH-16-041	AOI7-BH-16-042
Sample Date					8-Jul-16	8-Jul-16	30-Jun-16	29-Jun-16	30-Jun-16	29-Jun-16	29-Jun-16	6-Jul-16	6-Jul-16
Sample ID					AOI7-BH-16-034-0-2-070816	AOI7-BH-16-035-0-2-070816	AOI7-BH-16-036-0-2-063016	AOI7-BH-16-037-0-2-062916	AOI7-BH-16-038-0-2-063016	AOI7-BH-16-039-0-2-062916	AOI7-BH-16-040-0-2-062916	AOI7-BH-16-041-0-2-070616	AOI7-BH-16-042-0-2-070616
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory Work Order					1681418	1681418	1679350	1678008	1679350	1678008	1678008	1680744	1680744
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	8469170	8469168	8460984	8455741	8460981	8455740	8455738	8466406	8466404
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	424	59.9	368	313	40.6	42.3	309	26.1	256

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location Sample Date Sample ID Sample Depth Laboratory Laboratory Work Order Laboratory Sample ID					AOI7-BH-16-043 29-Jun-16 AOI7-BH-16-043-0-2-062916 0 - 2 ft LANCASTER 1678008 8455732	AOI7-BH-16-044 12-Jul-16 AOI7-BH-16-044-0-2-071216 0 - 2 ft LANCASTER 1682473 8473665	AOI7-BH-16-045 1-Jul-16 AOI7-BH-16-045-0-2-070116 0 - 2 ft LANCASTER 1679350 8460994	AOI7-BH-16-046 5-Jul-16 AOI7-BH-16-046-0-2-070516 0 - 2 ft LANCASTER 1680744 8466398	AOI7-BH-16-047 8-Jul-16 AOI7-BH-16-047-0-2-070816 0 - 2 ft LANCASTER 1681418 8469172	AOI8-BH-16-001D 13-Jul-16 AOI8-BH-16-001D-0-2-20160713 0 - 2 ft ESC L847655 L847655-02	AOI8-BH-16-002 15-Sep-16 AOI8-BH-16-002-0-2-20160915 0 - 2 ft ESC L860374 L860374-03	AOI8-BH-16-003 31-Aug-16 AOI8-BH-16-003-0-2-20160831 0 - 2 ft ESC L857166 L857166-03	AOI8-BH-16-004 29-Aug-16 AOI8-BH-16-004-0-2-20160829 0 - 2 ft ESC L856621 L856621-05
	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	432	ND (29.0)	4.14	509 <sup>A</sup>	238	25.6	97.9	1,460 <sup>AB</sup>	58.0

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location Sample Date Sample ID Sample Depth Laboratory Laboratory Work Order Laboratory Sample ID					AOI8-BH-16-005 29-Aug-16 AOI8-BH-16-005-0-2-20160829 0 - 2 ft ESC L856621 L856621-07	AOI8-BH-16-006 31-Aug-16 AOI8-BH-16-006-0-2-20160831 0 - 2 ft ESC L857166 L857166-05	AOI8-BH-16-007 31-Aug-16 AOI8-BH-16-007-0-2-20160831 0 - 2 ft ESC L857166 L857166-01	AOI8-BH-16-008 2-Sep-16 AOI8-BH-16-008-0-2-20160902 0 - 2 ft ESC L857622 L857622-07	AOI8-BH-16-009 6-Sep-16 AOI8-BH-16-009-0-2-20160906 0 - 2 ft ESC L858262 L858262-07	AOI8-BH-16-010 5-Aug-16 AOI8-BH-16-010-0-2-20160805 0 - 2 ft ESC L851826 L851826-10	AOI8-BH-16-011 4-Aug-16 AOI8-BH-16-011-0-2-20160804 0 - 2 ft ESC L851826 L851826-06	AOI8-BH-16-012 4-Aug-16 AOI8-BH-16-012-0-2-20160804 0 - 2 ft ESC L851826 L851826-02	AOI8-BH-16-013 30-Aug-16 AOI8-BH-16-013-0-2-20160830 0 - 2 ft ESC L856902 L856902-05
	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	122	40.7	1,650 <sup>AB</sup>	342	118	809 <sup>A</sup>	575 <sup>A</sup>	68.0	56.5

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location Sample Date Sample ID Sample Depth Laboratory Laboratory Work Order Laboratory Sample ID					AOI8-BH-16-014 30-Aug-16 AOI8-BH-16-014-0-2-20160830 0 - 2 ft ESC L856902 L856902-03	AOI8-BH-16-015 4-Aug-16 AOI8-BH-16-015-0-2-20160804 0 - 2 ft ESC L851826 L851826-08	AOI8-BH-16-016 1-Aug-16 AOI8-BH-16-016-0-2-20160801 0 - 2 ft ESC L850909 L850909-03	AOI8-BH-16-017 2-Aug-16 AOI8-BH-16-017-0-2-20160802 0 - 2 ft ESC L850909 L850909-05	AOI8-BH-16-018 30-Aug-16 AOI8-BH-16-018-0-2-20160830 0 - 2 ft ESC L856902 L856902-01	AOI8-BH-16-019 29-Aug-16 AOI8-BH-16-019-0-2-20160829 0 - 2 ft ESC L856621 L856621-03	AOI8-BH-16-020 1-Aug-16 AOI8-BH-16-020-0-2-20160801 0 - 2 ft ESC L850909 L850909-01	AOI8-BH-16-021 26-Sep-16 AOI8-BH-16-021-0-2-20160926 0 - 2 ft ESC L862185 L862185-01	AOI8-BH-16-022 2-Aug-16 AOI8-BH-16-022-0-2-20160802 0 - 2 ft ESC L850909 L850909-09
	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	30.7	115	155	21.0	65.2	147	478 <sup>A</sup>	155	52.7

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI8-BH-16-023	AOI8-BH-16-024	AOI8-BH-16-025	AOI8-BH-16-026	AOI8-BH-16-027	AOI8-BH-16-028	AOI8-BH-16-029	AOI8-BH-16-030	AOI8-BH-16-031
Sample Date					8-Sep-16	7-Sep-16	2-Sep-16	7-Sep-16	29-Aug-16	27-Jul-16	27-Jul-16	27-Jul-16	25-Jul-16
Sample ID					AOI8-BH-16-023-0-2-20160908	AOI8-BH-16-024-0-2-20160907	AOI8-BH-16-025-0-2-20160902	AOI8-BH-16-026-0-2-20160907	AOI8-BH-16-027-0-2-20160829	AOI8-BH-16-028-0-2-20160727	AOI8-BH-16-029-0-2-20160727	AOI8-BH-16-030-0-2-20160727	AOI8-BH-16-031-0-2-20160725
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Laboratory Work Order					L858926	L858262	L857622	L858262	L856621	L850029	L850029	L850029	L849472
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	L858926-05	L858262-03	L857622-02	L858262-01	L856621-01	L850029-05	L850029-03	L850029-01	L849472-03
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	98.3	15.9	119	143	79.6	94.4	44.5	26.8	105

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI8-BH-16-032 26-Jul-16	AOI8-BH-16-033 8-Sep-16	AOI8-BH-16-034 8-Sep-16	AOI8-BH-16-035 21-Jul-16	AOI8-BH-16-036 22-Jul-16	AOI8-BH-16-037 25-Jul-16	AOI8-BH-16-038 12-Sep-16	AOI8-BH-16-039 9-Sep-16	AOI8-BH-16-040 8-Aug-16
Sample Date					AOI8-BH-16-032-0-2-20160726	AOI8-BH-16-033-0-2-20160908	AOI8-BH-16-034-0-2-20160908	AOI8-BH-16-035-0-2-20160721	AOI8-BH-16-036-0-2-20160722	AOI8-BH-16-037-0-2-20160725	AOI8-BH-16-038-0-2-20160912	AOI8-BH-16-039-0-2-20160909	AOI8-BH-16-040-0-2-20160808
Sample ID					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Sample Depth					ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Laboratory		A	B	C	L849472	L858926	L858926	L849010	L849010	L849472	L859570	L858926	L852559
Laboratory Work Order		MSC-PA	MSC-PA		L849472-07	L858926-03	L858926-01	L849010-01	L849010-08	L849472-01	L859570-01	L858926-07	L852559-05
Laboratory Sample ID	Units	SO to GW	DC	SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	6.63	2,990 <sup>ABC</sup>	395	436	7.97	189	1,420 <sup>AB</sup>	891 <sup>A</sup>	22.3

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI8-BH-16-041	AOI8-BH-16-042	AOI8-BH-16-043	AOI8-BH-16-044	AOI8-BH-16-045	AOI8-BH-16-046	AOI8-BH-16-047	AOI8-BH-16-048	AOI8-BH-16-049
Sample Date					8-Aug-16	8-Aug-16	22-Jul-16	12-Sep-16	16-Aug-16	18-Aug-16	24-Aug-16	16-Aug-16	16-Aug-16
Sample ID					AOI8-BH-16-041-0-2-20160808	AOI8-BH-16-042-0-2-20160808	AOI8-BH-16-043-0-2-20160722	AOI8-BH-16-044-0-2-20160912	AOI8-BH-16-045-0-2-20160816	AOI8-BH-16-046-0-2-20160818	AOI8-BH-16-047-0-2-20160824	AOI8-BH-16-048-0-2-20160816	AOI8-BH-16-049-0-2-20160816
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Laboratory Work Order					L852559	L852559	L849010	L859570	L854114	L854640	L855697	L854114	L854114
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	L852559-03	L852559-01	L849010-03	L859570-03	L854114-04	L854640-01	L855697-01	L854114-02	L854114-07
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	21.1	16.0	97.9	349	124	30.8	79.0	380	175

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI8-BH-16-050	AOI8-BH-16-051	AOI8-BH-16-052	AOI8-BH-16-053	AOI8-BH-16-054	AOI8-BH-16-055	AOI8-BH-16-056	
Sample Date					18-Aug-16	13-Sep-16	19-Aug-16	17-Aug-16	9-Aug-16	9-Aug-16	20-Jul-16	20-Jul-16
Sample ID					AOI8-BH-16-050-0-2-20160818	AOI8-BH-16-051-0-2-20160913	AOI8-BH-16-052-0-2-20160819	AOI8-BH-16-053-0-2-20160817	AOI8-BH-16-054-0-2-20160809	AOI8-BH-16-055-0-2-20160809	AOI8-BH-16-056-0-2-20160720	AOI8-BH-16-056-0-2-20160720-DUP
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Laboratory Work Order					L854640	L859570	L854980	L854494	L852559	L852559	L848537	L848537
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	L854640-03	L859570-07	L854980-02	L854494-01	L852559-10	L852559-12	L848537-04	L848537-05
Metals												
LEAD, Total	mg/kg	450	1,000	2,240	405	10.3	453 <sup>A</sup>	87.1	95.9	625 <sup>A</sup>	18.7	17.9

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI8-BH-16-057 18-Aug-16	AOI8-BH-16-058 12-Sep-16	AOI8-BH-16-059 11-Aug-16	AOI8-BH-16-060 11-Aug-16	AOI8-BH-16-061 11-Aug-16	AOI8-BH-16-062 13-Sep-16	AOI8-BH-16-063 14-Sep-16	AOI8-BH-16-073 13-Sep-16	AOI8-BH-16-074 25-Aug-16
Sample Date					AOI8-BH-16-057-0-2-20160818	AOI8-BH-16-058-0-2-20160912	AOI8-BH-16-059-0-2-20160811	AOI8-BH-16-060-0-2-20160811	AOI8-BH-16-061-0-2-20160811	AOI8-BH-16-062-0-2-20160913	AOI8-BH-16-063-0-2-20160914	AOI8-BH-16-073-0-2-20160913	AOI8-BH-16-074-0-2-20160825
Sample ID					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Sample Depth					ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Laboratory					L854640	L859570	L853517	L853517	L853517	L859570	L860374	L859570	L856076
Laboratory Work Order		A	B	C	L854640-05	L859570-05	L853517-01	L853517-02	L853517-03	L859570-09	L860374-01	L859570-11	L856076-23
Laboratory Sample ID	Units	MSC-PA SO to GW	MSC-PA DC	SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	10.6	121	95,000 <sup>ABC</sup>	2,650 <sup>ABC</sup>	1,320 <sup>AB</sup>	26.7	114	124	24.9

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI8-BH-16-075	AOI8-BH-16-076	AOI8-BH-16-077	AOI8-BH-16-078	AOI8-BH-16-079	AOI8-BH-16-080	AOI8-BH-16-082	AOI9-BH-15-1	AOI9-BH-15-2
Sample Date					25-Aug-16	25-Aug-16	25-Aug-16	18-Oct-16	18-Oct-16	18-Oct-16	28-Oct-16	19-Jun-15	18-Jun-15
Sample ID					AOI8-BH-16-075-0-2-20160825	AOI8-BH-16-076-0-2-20160825	AOI8-BH-16-077-0-2-20160825	AOI8-BH-16-078-0-2-20161018	AOI8-BH-16-079-0-2-20161018	AOI8-BH-16-080-0-2-20161018	AOI8-BH-16-082-0-2-20161028	AOI9_BH-15-1_0-2_061915	AOI-9_BH-15-2_0-2_061815
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					ESC	ESC	ESC	ESC	ESC	ESC	ESC	PACE	PACE
Laboratory Work Order					L856076	L856076	L856076	L866853	L866853	L866853	L869424	30151389	30151280
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	L856076-25	L856076-27	L856076-29	L866853-01	L866853-02	L866853-03	L869424-01	30151389003	30151280001
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	68.6	76.9	20.3	3,450 <sup>ABC</sup>	1,030 <sup>AB</sup>	36.8	38.8	587 <sup>A</sup>	24.0

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI9-BH-15-3	AOI9-BH-15-4	AOI9-BH-15-5	AOI9-BH-15-6	AOI9-BH-15-7	AOI9-BH-15-8	AOI9-BH-15-12	AOI9-BH-15-13	AOI9-BH-15-14
Sample Date					18-Jun-15	19-Jun-15	1-Jul-15	1-Jul-15	1-Jul-15	2-Jul-15	3-Aug-15	3-Aug-15	3-Aug-15
Sample ID					AOI9_BH-15-3_0-2_061815	AOI9_BH-15-4_0-2_061915	AOI9_BH-15-5_0-2_070115	AOI9_BH-15-6_0-2_070115	AOI9_BH-15-7_0-2_070115	AOI-9_BH-15-8_0-2_070215	AOI-9_BH-15-12_0-2_080315	AOI-9_BH-15-13_0-2_080315	AOI-9_BH-15-14_0-2_080315
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE
Laboratory Work Order					30151280	30151389	30152679	30152679	30152679	30152679	30155439	30155439	30155439
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	30151280003	30151389002	30152679001	30152679003	30152679005	30152679007	30155439007	30155439005	30155439003
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	<u>1,030</u> <sup>AB</sup>	270	<u>1,610</u> <sup>AB</sup>	<u>2,390</u> <sup>ABC</sup>	<u>2,040</u> <sup>AB</sup>	348	1,000 <sup>A</sup>	<u>1,030</u> <sup>AB</sup>	711 <sup>A</sup>

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI9-BH-15-15	AOI9-BH-15-16	AOI9-BH-15-17	AOI9-BH-15-18	AOI9-BH-15-19	AOI9-BH-15-20	AOI9-BH-15-21	AOI9-BH-15-22	AOI9-BH-15-23
Sample Date					3-Aug-15	9-Jul-15	9-Jul-15	9-Jul-15	9-Jul-15	16-Jun-15	16-Jun-15	16-Jun-15	16-Jun-15
Sample ID					AOI9_BH-15-15_0-2_080315	AOI9_BH-15-16_0-2_070915	AOI9_BH-15-17_0-2_070915	AOI9_BH-15-18_0-2_070915	AOI9_BH-15-19_0-2_070915	AOI9_BH-15-20_0-2_061615K	AOI9_BH-15-21_0-2_061615K	AOI9_BH-15-22_0-2_061615K	AOI9_BH-15-23_0-2_061615K
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE
Laboratory Work Order					30155439	30153116	30153116	30153116	30153116	30151035	30151035	30151035	30151035
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	30155439001	30153116005	30153116004	30153116003	30153116002	30151035005	30151035003	30151035001	30151035007
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	526 <sup>A</sup>	2,180 <sup>AB</sup>	1,910 <sup>AB</sup>	397	1,360 <sup>AB</sup>	1,320 <sup>AB</sup>	1,720 <sup>AB</sup>	1,900 <sup>AB</sup>	1,230 <sup>AB</sup>

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI9-BH-15-24 15-Jun-15 AOI9_BH-15-24_0-2_061515	AOI9-BH-15-25 15-Jun-15 AOI9_BH-15-25_0-2_061515	AOI9-BH-15-26 15-Jun-15 AOI9_BH-15-26_0-2_061515	AOI9-BH-15-27 15-Jun-15 AOI9_BH-15-27_0-2_061515	AOI9-BH-15-28 24-Jun-15 AOI9_BH-15-28_0-2_062415	AOI9-BH-15-29 23-Jun-15 AOI9_BH-15-29_0-2_062315	AOI9-BH-15-30 24-Jun-15 AOI9_BH-15-30_0-2_062415	AOI9-BH-15-31 24-Jun-15 AOI9_BH-15-31_0-2_062415	AOI9-BH-15-33 20-Jul-15 AOI9_BH-15-33_0.5-1_072015
Sample Date					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0.5 - 1 ft
Sample ID					PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE
Sample Depth					30150952	30150952	30150952	30150952	30152009	30151642	30152009	30152009	30153864
Laboratory					30150952004	30150952002	30150952006	30150952008	30152009006	30151642003	30152009004	30152009002	30153864002
Laboratory Work Order													
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	<u>2,190</u> <sup>AB</sup>	<u>1,580</u> <sup>AB</sup>	<u>1,660</u> <sup>AB</sup>	<u>1,510</u> <sup>AB</sup>	<u>1,160</u> <sup>AB</sup>	<u>1,440</u> <sup>AB</sup>	<u>1,020</u> <sup>AB</sup>	767 <sup>A</sup>	710 <sup>A</sup>

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI9-BH-15-45	AOI9-BH-15-49	AOI9-BH-15-55	AOI9-BH-15-56	AOI9-BH-15-57	AOI9-BH-15-58	AOI9-BH-15-59	AOI9-BH-15-60	AOI9-BH-15-60A
Sample Date					9-Jun-15	23-Jun-15	13-Jul-15	13-Jul-15	13-Jul-15	13-Jul-15	30-Jun-15	30-Jun-15	30-Jun-15
Sample ID					AOI9_BH-15-45_0-2_060915	AOI9_BH-15-49_0-2_062315	AOI9_BH-15-55_0-2_071315	AOI9_BH-15-56_0-2_071315	AOI9_BH-15-57_0-2_071315	AOI9_BH-15-58_0-2_071315	AOI9_BH-15-59_0-2_063015	AOI9_BH-15-60_0-2_063015	AOI9_BH-15-60A_0-2_063015
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE
Laboratory Work Order					30150349	30151642	30153250	30153250	30153250	30153250	30152270	30152270	30152270
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	30150349002	30151642002	30153250002	30153250003	30153250004	30153250005	30152270005	30152270001	30152270003
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	724 <sup>A</sup>	803 <sup>A</sup>	2,210 <sup>AB</sup>	446	1,480 <sup>AB</sup>	3,540 <sup>ABC</sup>	1,160 <sup>AB</sup>	1,870 <sup>AB</sup>	149

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI9-BH-15-61	AOI9-BH-15-62	AOI9-BH-15-63	AOI9-BH-15-64	AOI9-BH-15-65	AOI9-BH-15-66	AOI9-BH-15-67	AOI9-BH-15-68	AOI9-BH-15-69
Sample Date					21-Jul-15	17-Jun-15	17-Jun-15	17-Jun-15	17-Jun-15	10-Jun-15	10-Jun-15	10-Jun-15	10-Jun-15
Sample ID					AOI9_BH-15-61_1.5-2_072115	AOI9_BH-15-62_0-2_061715	AOI9_BH-15-63_0-2_061715	AOI9_BH-15-64_0-2_061715	AOI9_BH-15-65_0-2_061715	AOI9_BH-15-66_0-2_061015	AOI9_BH-15-67_0-2_061015	AOI9_BH-15-68_0-2_061015	AOI9_BH-15-69_0-2_061015
Sample Depth					1.5 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE
Laboratory Work Order					30153984	30151250	30151250	30151250	30151250	30150464	30150650	30150464	30150464
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	30153984001	30151250007	30151250005	30151250003	30151250001	30150464005	30150650012	30150464007	30150464009
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	264	527 <sup>A</sup>	1,010 <sup>AB</sup>	785 <sup>A</sup>	508 <sup>A</sup>	1,060 <sup>AB</sup>	1,700 <sup>AB</sup>	711 <sup>A</sup>	1,140 <sup>AB</sup>

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI9-BH-15-70	AOI9-BH-15-76	AOI9-BH-15-78	AOI9-BH-15-82	AOI9-BH-15-83	AOI9-BH-15-84	AOI9-BH-15-87	AOI9-BH-15-88	AOI9-BH-15-89
Sample Date					10-Jun-15	16-Jun-15	16-Jun-15	12-Jun-15	12-Jun-15	15-Jun-15	17-Jun-15	17-Jun-15	8-Jun-15
Sample ID					AOI9_BH-15-70_0-2_061015	AOI9_BH-15-76_1-1.5_061615	AOI9_BH-15-78_1.5-2_061615	AOI9_BH-15-82_1.25-1.75_061215	AOI9_BH-15-83_1.0-1.5_061215	AOI9_BH-15-84_1.5-2_061515	AOI9_BH-15-87_1.5-2_061715	AOI9_BH-15-88_1.5-2_061715	AOI9_BH-15-89_1.5-2_060815
Sample Depth					0 - 2 ft	1 - 1.5 ft	1.5 - 2 ft	1.25 - 1.75 ft	1 - 1.5 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft
Laboratory					PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE
Laboratory Work Order					30150464	30151036	30151036	30150775	30150775	30150953	30151252	30151252	30150237
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	30150464003	30151036001	30151036003	30150775001	30150775003	30150953002	30151252004	30151252002	30150237001
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	936 <sup>A</sup>	34.8	14.5	3,520 <sup>ABC</sup>	90.6	136	25.4	11.6	62.3

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location Sample Date Sample ID Sample Depth Laboratory Laboratory Work Order Laboratory Sample ID					AOI9-BH-15-90 11-Jun-15 AOI9_BH-15-90_1-1.5_061115 1 - 1.5 ft PACE 30150650 30150650001	AOI9-BH-15-91 17-Jun-15 AOI9_BH-15-91_1.5-2_061715 1.5 - 2 ft PACE 30151252 30151252006	AOI9-BH-15-92 7-Aug-15 AOI9_BH-15-92_0-2_080715 0 - 2 ft PACE 30155937 30155937006	AOI9-BH-15-93 7-Aug-15 AOI9_BH-15-93_0-2_080715 0 - 2 ft PACE 30155937 30155937008	AOI9-BH-15-94 7-Aug-15 AOI9_BH-15-94_0-2_080715 0 - 2 ft PACE 30155937 30155937004	AOI9-BH-15-95 4-Aug-15 AOI9_BH-15-95_0-2_080415 0 - 2 ft PACE 30155487 30155487001	AOI9-BH-15-96 4-Aug-15 AOI9_BH-15-96_0-2_080415 0 - 2 ft PACE 30155487 30155487004	AOI9-BH-15-97 7-Aug-15 AOI9_BH-15-97_0-2_080715 0 - 2 ft PACE 30155937 30155937002	AOI9-BH-15-98 5-Aug-15 AOI9_BH-15-98_0-2_080515 0 - 2 ft PACE 30155487 30155487006
	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	112	10.8	50.0	34.7	23.9	1,970 <sup>AB</sup>	227	37.8	41.1

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI9-BH-15-99	AOI9-BH-15-102	AOI9-BH-15-103	AOI9-BH-15-106		AOI9-BH-15-107	AOI9-BH-15-108		AOI9-BH-15-111
Sample Date					5-Aug-15	5-Aug-15	5-Aug-15	9-Jun-15	9-Jun-15	31-Jul-15	31-Jul-15	5-Aug-15	30-Jul-15
Sample ID					AOI9_BH-15-99_0-2_080515	AOI9_BH-15-102_0-2_080515	AOI9_BH-15-103_0-2_080515	AO19_BH-15-106_0.5-1_060915	AO19_BH-15-106_1-1.5_060915	AOI9_BH-15-107_0-2_073115	AOI9_BH-15-108_0-2_073115	AOI9_BH-15-108_0-2_080515	AOI9_BH-15-111_0-2_073015
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0.5 - 1 ft	1 - 1.5 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE
Laboratory Work Order		A	B	C	30155636	30155636	30155636	30150352	30150352	30155109	30155109	30155636	30155109
Laboratory Sample ID	Units	MSC-PA SO to GW	MSC-PA DC	SSS	30155636001	30155636005	30155636003	30150352002	30150352003	30155109010	30155109006	30155636007	30155109004
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	22.2	300	18.1	489 <sup>A</sup>	147	16.8	6.9	411	13.9

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI9-BH-15-112 31-Jul-15	AOI9-BH-15-113 30-Jul-15	AOI9-BH-15-114 22-Jul-15	AOI9-BH-15-115 30-Jul-15	AOI9-BH-15-116 29-Jul-15	AOI9-BH-15-117 29-Jul-15	AOI9-BH-15-118 29-Jul-15	AOI9-BH-15-119 24-Jul-15	AOI9-BH-15-120 28-Jul-15
Sample Date					AOI9_BH-15-112_0-2_073115	AOI9_BH-15-113_0-2_073015	AOI9_BH-15-114_0-2_072215	AOI9_BH-15-115_0-2_073015	AOI9_BH-15-116_0-2_072915	AOI9_BH-15-117_0-2_072915	AOI9_BH-15-118_0-2_072915	AOI9_BH-15-119_0-2_072415	AOI9_BH-15-120_0-2_072815
Sample ID					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Sample Depth					PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE
Laboratory					30155109	30155109	30154324	30155109	30154919	30154919	30154919	30154428	30154774
Laboratory Work Order					30155109005	30155109002	30154324003	30155109001	30154919005	30154919003	30154919007	30154428002	30154774009
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS									
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	63.5	478 <sup>A</sup>	210	1,690 <sup>AB</sup>	227	458 <sup>A</sup>	116	835 <sup>A</sup>	544 <sup>A</sup>

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI9-BH-15-121 29-Jul-15 AOI9_BH-15-121_0-2_072915	AOI9-BH-15-122 28-Jul-15 AOI9_BH-15-122_0-2_072815	AOI9-BH-15-123 23-Jul-15 AOI9_BH-15-123_0-2_072315	AOI9-BH-15-124 28-Jul-15 AOI9_BH-15-124_0-2_072815	AOI9-BH-15-125 28-Jul-15 AOI9_BH-15-125_0-2_072815	AOI9-BH-15-126 28-Jul-15 AOI9_BH-15-126_0-2_072815		AOI9_BH-15-126_0.5-1_072015	AOI9-BH-15-127 23-Jun-15 AOI9_BH-15-127_0-2_062315	AOI9-BH-15-128 22-Jun-15 AOI9_BH-15-128_0-2_062215
Sample Date														
Sample ID														
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft		0 - 2 ft	0.5 - 1 ft	0 - 2 ft	0 - 2 ft
Laboratory					PACE	PACE	PACE	PACE	PACE		PACE	PACE	PACE	PACE
Laboratory Work Order					30154919	30154774	30154428	30154774	30154774		30154774	30153864	30151642	30151524
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	30154919001	30154774003	30154428006	30154774001	30154774004	30154774006	30153864001	30151642001	30151524004	
Metals														
LEAD, Total	mg/kg	450	1,000	2,240	1,070 <sup>AB</sup>	286	1,840 <sup>AB</sup>	880 <sup>A</sup>	289	506 <sup>A</sup>	210	44.8	364	

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI9-BH-15-129	AOI9-BH-15-130	AOI9-BH-15-131	AOI9-BH-15-132		AOI9-BH-15-133	AOI9-BH-15-134	AOI9-BH-15-135
Sample Date					22-Jun-15	8-Jun-15	8-Jun-15	8-Jun-15	8-Jun-15	8-Jun-15	11-Jun-15	11-Jun-15
Sample ID					AOI9_BH-15-129_0-2_062215	AOI9_BH-15-130_1.5-2_060815	AOI9_BH-15-131_1.5-2_060815	AOI9BH-15-132_2.25-2.75_060815	AOI9_BH-15-132_1-1.5_060815	AOI9_BH-15-133_1.5-2_060815	AOI9_BH-15-134_0.5-1_061115	AOI9_BH-15-135_1.5-2_061115
Sample Depth					0 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	0.25 - 2.75 ft	1 - 1.5 ft	1.5 - 2 ft	0.5 - 1 ft	1.5 - 2 ft
Laboratory					PACE	PACE	PACE	PACE	PACE	PACE	PACE	PACE
Laboratory Work Order					30151524	30150237	30150237	30150237	30150237	30150237	30150650	30150650
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	30151524002	30150237003	30150237007	30150237010	30150237009	30150237005	30150650009	30150650003
Metals												
LEAD, Total	mg/kg	450	1,000	2,240	1,340 <sup>AB</sup>	94.6	18.1	14.0	71.7	48.3	59.1	17.3

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI9-BH-15-136	AOI9-BH-15-137	AOI9-BH-15-138	AOI9-BH-15-139	AOI9-BH-15-140	AOI9-BH-15-141	AOI9-BH-15-146	AOI9-BH-15-147	AOI9-BH-15-148
Sample Date					11-Jun-15	11-Jun-15	5-Nov-15	5-Nov-15	5-Nov-15	5-Nov-15	4-Nov-15	4-Nov-15	4-Nov-15
Sample ID					AOI9_BH-15-136_1.5-2_061115	AOI9_BH-15-137_1.5-2_061115	AOI9_BH-15-138_0-2_110515	AOI9_BH-15-139_0-2_110515	AOI9_BH-15-140_0-2_110515	AOI9_BH-15-141_0-2_110515	AOI9_BH-15-146_0-2_110415	AOI9_BH-15-147_0-2_110415	AOI9_BH-15-148_0-2_110415
Sample Depth					1.5 - 2 ft	1.5 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					PACE	PACE	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST
Laboratory Work Order					30150650	30150650	JC8006	JC7926	JC7926	JC7926	JC7761	JC7761	JC7761
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	30150650006	30150650005	JC8006-1	JC7926-1	JC7926-2	JC7926-3	JC7761-5	JC7761-6	JC7761-7
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	16.1	12.4	1,020 <sup>AB</sup>	354	840 <sup>A</sup>	945 <sup>A</sup>	3,350 <sup>ABC</sup>	589 <sup>A</sup>	623 <sup>A</sup>

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI9-BH-15-149	AOI9-BH-15-150	AOI9-BH-15-151	AOI9-BH-15-152	AOI9-BH-15-153	AOI9-BH-15-154	AOI9-BH-16-01	AOI9-BH-16-02	AOI9-BH-16-03
Sample Date					5-Nov-15	5-Nov-15	5-Nov-15	5-Nov-15	25-Nov-15	25-Nov-15	20-Sep-16	20-Sep-16	20-Sep-16
Sample ID					AOI9_BH-15-149_0-2_110515	AOI9_BH-15-150_0-2_110515	AOI9_BH-15-151_0-2_110515	AOI9_BH-15-152_0-2_110515	AOI9_BH-15-153_0-2_112515	AOI9_BH-15-154_0-2_112515	AOI9-BH-16-01_1-1.5_092016	AOI9-BH-16-02_1-1.5_092016	AOI9-BH-16-03_1-2_092016
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	1 - 1.5 ft	1 - 1.5 ft	1 - 2 ft
Laboratory					ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	PACE	PACE	PACE
Laboratory Work Order					JC7926	JC8006	JC8006	JC8006	JC9415	JC9415	30196734	30196734	30196734
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	JC7926-4	JC8006-2R	JC8006-3R	JC8006-4R	JC9415-1	JC9415-2	30196734001	30196734003	30196734005
Metals													
LEAD, Total	mg/kg	450	1,000	2,240	48.5	1,290 <sup>AB</sup>	1,170 <sup>AB</sup>	620 <sup>A</sup>	1,320 <sup>AB</sup>	1,720 <sup>AB</sup>	852 <sup>A</sup>	1,460 <sup>AB</sup>	994 <sup>A</sup>

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AOI9-BH-21-10	ARCO-1	ARCO-2	ARCO-3	AST 283-CV-1	AST 283-SB-1	AST 283-SB-3	AST 283-SB-4	AST 283-SB-5	AST-250-SS-1	AST-250-SS-2	AST-250-SS-3
Sample Date					6-Jul-21	28-Jun-11	30-Jun-11	30-Jun-11	28-Jun-05	28-Jun-05	28-Jun-05	28-Jun-05	28-Jun-05	15-May-07	15-May-07	15-May-07
Sample ID					AOI9_BH-21-10	ARCO-1@0'-2'_062811	ARCO-2@0'-2'_063011	ARCO-3@0'-2'_063011	CV-1	SB-1	SB-3	SB-4	SB-5	AST-250-SS-1	AST-250-SS-2	AST-250-SS-3
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 0.5 ft	1 - 1.5 ft	1 - 1.5 ft	1 - 1.5 ft	1 - 1.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Laboratory					LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	PACE	PACE	PACE
Laboratory Work Order					410-46005-1	1254492	1254492	1254492	950598	950598	950598	950598	950598	075326	075326	075326
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	410-46005-1	6334751	6334766	6334759	4559623	4559618	4559620	4559621	4559622	0707-0961	0707-0962	0707-0963
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	<u>1,700</u> <sup>AB</sup>	160	90.1	25.9	121	317	97.9	113	81.1	<b>940</b> <sup>A</sup>	30	100

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					AST-250-SS-4	AST-250-SS-5	AST-250-SS-6	AST-250-SS-7	AST-250-SS-8	AST-834-LINE-1	AST-834-LINE-2	AST-834-LINE-3	AST-834-LINE-4	AST-834-LINE-5	AST-834-LINE-6	B-151
Sample Date					15-May-07	15-May-07	15-May-07	15-May-07	15-May-07	30-Nov-06	30-Nov-06	30-Nov-06	30-Nov-06	30-Nov-06	30-Nov-06	1-Mar-06
Sample ID					AST-250-SS-4	AST-250-SS-5	AST-250-SS-6	AST-250-SS-7	AST-250-SS-8	AST-834-LINE-1	AST-834-LINE-2	AST-834-LINE-3	AST-834-LINE-4	AST-834-LINE-5	AST-834-LINE-6	BH-B151-030106-0.5-1
Sample Depth					0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1 ft
Laboratory					PACE	PACE	PACE	PACE	PACE	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory Work Order					075326	075326	075326	075326	075326	1016436	1016436	1016436	1016436	1016436	1016436	UNKNOWN
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	0707-0964	0707-0965	0707-0966	0707-0967	0707-0968	4929272	4929273	4929274	4929275	4929276	4929277	4720664
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	2.8	190	1,500 <sup>AB</sup>	140	13	147	274	60.5	344	158	87.8	198

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					B-152 1-Mar-06	B-153 1-Mar-06	B-154 1-Mar-06	B-155 20-Mar-06	B-156 20-Mar-06	B-157 1-Mar-06	B-160 1-Mar-06	B-161 1-Mar-06	B-162 1-Mar-06	B-164 1-Mar-06	B-166 13-Dec-12	B-167 13-Dec-12
Sample Date					BH-B152-030106-1.5-2	BH-B153-030106-1.5-2	BH-B154-030106-1-1.5	BH-B155-032006-1.5-2	BH-B156-032006-1-1.5	BH-B157-030106-1-1.5	BH-B160-030106-1-1.5	BH-B161-030106-1.5-2	BH-B162-030106-1-1.5	BH-B164-030106-1.5-2	B-166_2'	B-167_2'
Sample ID					1.5 - 2 ft	1.5 - 2 ft	1 - 1.5 ft	1.5 - 2 ft	1 - 1.5 ft	1 - 1.5 ft	1 - 1.5 ft	1.5 - 2 ft	1 - 1.5 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft
Sample Depth					LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	ACCUTEST	ACCUTEST
Laboratory					UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	JB23816	JB23816
Laboratory Work Order																
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	4720663	4720662	4720665	4734388	4734387	4720661	4720658	4720659	4720657	4720660	JB23816-3	JB23816-1
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	27	66.3	410	618 <sup>A</sup>	1,070 <sup>AB</sup>	178	30.8	70.1	584 <sup>A</sup>	18.5	744 <sup>A</sup>	253

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					B-170 13-Dec-12 B-170_2' 1.5 - 2 ft ACCUTEST JB23816	B-171 6-Apr-16 AOI6-B-171-0-2-SOIL 1 - 2 ft LANCASTER 1648963	B-172 6-Apr-16 AOI6-B-172-0-2-SOIL 0.5 - 1 ft LANCASTER 1647893	B-173 5-Apr-16 AOI6-B-173-0-2-SOIL 1 - 1.5 ft LANCASTER 1647893	B-174 4-Apr-16 AOI6-B-174-0-2-SOIL 1 - 1.5 ft LANCASTER 1647893	B-175 5-Apr-16 AOI6-B-175-0-2-SOIL 1.5 - 2 ft LANCASTER 1647893	B90-1 24-Aug-92 B090A4 0 - 2 ft UNKNOWN CCR Historical P209605	B90-2 24-Aug-92 B090A1 0 - 2 ft UNKNOWN CCR Historical P209602	B90-4 24-Aug-92 B090A6 0 - 2 ft UNKNOWN CCR Historical P209610	B90-7 26-Aug-92 B090B7 0 - 2 ft UNKNOWN CCR Historical P209930	B90-8 25-Aug-92 B090A9 0 - 2 ft UNKNOWN CCR Historical P209880	B90-9 24-Aug-92 B090A8 0 - 2 ft UNKNOWN CCR Historical P209612
Sample Date																
Sample ID																
Sample Depth																
Laboratory																
Laboratory Work Order																
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	JB23816-5	8325908	8321194	8321186	8321182	8321188	P209605	P209602	P209610	P209930	P209880	P209612
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	66.9	45.7	168	170	6.22	207	93.8 BF	16.0 L	78.5 BF	148	233	236 BF

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					B90-13 25-Aug-92 B090B2 0 - 2 ft UNKNOWN CCR Historical	B90-16 26-Aug-92 B090C1 0 - 2 ft UNKNOWN CCR Historical	B91-3 27-Aug-92 B091A5 1 - 4 ft UNKNOWN CCR Historical	B91-7 26-Aug-92 B091A3 0 - 2 ft UNKNOWN CCR Historical	B91-8 26-Aug-92 B091A1 0 - 2 ft UNKNOWN CCR Historical	B91-9 28-Aug-92 B091B2 0 - 2 ft UNKNOWN CCR Historical	B91-19 28-Aug-92 B091B5 0 - 2 ft UNKNOWN CCR Historical	B-ARCO-1 30-Jun-11 B-ARCO-1@0'-2'_063011 0 - 2 ft LANCASTER 1254492	B-ARCO-2 30-Jun-11 B-ARCO-2@0'-2'_063011 0 - 2 ft LANCASTER 1254492	B-ARCO-3 30-Jun-11 B-ARCO-3@0'-2'_063011 0 - 2 ft LANCASTER 1254492	B-ARCO-4 30-Jun-11 B-ARCO-4@0'-2'_063011 0 - 2 ft LANCASTER 1254492	B-ARCO-5 30-Jun-11 B-ARCO-5@0'-2'_063011 0 - 2 ft LANCASTER 1254492	
Sample Date																	
Sample ID																	
Sample Depth																	
Laboratory																	
Laboratory Work Order																	
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	P209882	P209933	P210009	P209937	P209935	P210085	P210088	6334765	6334763	6334761	6334764	6334762	
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	80.3 BF	310 BF	19.8	8.1 BF	306	117	1,110 <sup>AB</sup>	191	25.2	193	74.7	443	

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					B-ARCO-6 30-Jun-11 B-ARCO-6@0'-2'_063011 0 - 2 ft LANCASTER 1254492	BH-01-09 7-Apr-09 BH-01-09 0 - 2 ft LANCASTER UNKNOWN	BH-02-06 22-Mar-06 BH-02-06-032206-1.5-2 1.5 - 2 ft LANCASTER UNKNOWN	BH-03-06 22-Mar-06 BH-03-06-032206-1.5-2 1.5 - 2 ft LANCASTER UNKNOWN	BH-03-09 7-Apr-09 BH-03-09 0 - 2 ft LANCASTER UNKNOWN	BH-04-07 13-Jul-07 BH-04-07_1-2 1 - 2 ft UNKNOWN EZ_2007_Soil	BH-04-09 7-Apr-09 BH-04-09 0 - 2 ft LANCASTER UNKNOWN	BH-05-07 12-Jul-07 BH-05-07_1-2 1 - 2 ft UNKNOWN EZ_2007_Soil	BH-05-09 8-Apr-09 BH-05-09 0 - 2 ft LANCASTER UNKNOWN	BH-06-07 4-Apr-07 BH-06-07_0.5-1.0 0.5 - 1 ft UNKNOWN EZ_2007_Soil	BH-06-09 8-Apr-09 BH-06-09 0 - 2 ft LANCASTER UNKNOWN	BH-07-07 13-Jul-07 BH-07-07_1-2 1 - 2 ft UNKNOWN EZ_2007_Soil
Laboratory		A	B	C												
Laboratory Work Order		MSC-PA	MSC-PA													
Laboratory Sample ID	Units	SO to GW	DC	SSS	6334760	5643358	4736395	4736394	5643355	UNKNOWN	5643356	UNKNOWN	5643362	UNKNOWN	5643363	UNKNOWN
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	284	494 <sup>A</sup>	1,260 <sup>AB</sup>	1,650 <sup>AB</sup>	316	203	1,810 <sup>AB</sup>	316	449	373	407	1,250 <sup>AB</sup>

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					BH-07-09	BH-08-01	BH-08-02	BH-08-03	BH-08-04	BH-08-07	BH-08-08	BH-08-09	BH-08-09_AOI5	BH-08-10	BH-08-11	BH-08-12	BH-08-13
Sample Date					7-Apr-09	17-Jun-08	7-May-08	7-May-08	8-May-08	8-May-08	7-May-08	7-May-08	7-Apr-09	7-May-08	7-May-08	6-May-08	6-May-08
Sample ID					BH-07-09	BH-08-01_1.0-2.0	BH-08-02_1.0-2.0	BH-08-03_1.0-2.0	BH-08-04_1.0-2.0	BH-08-07_1.0-2.0	BH-08-08_1.0-2.0	BH-08-09_1.0-2.0	BH-08-09_AOI5	BH-08-10_1.0-2.0	BH-08-11_1.0-2.0	BH-08-12_1.0-2.0	BH-08-13_1.0-2.0
Sample Depth					0 - 2 ft	1 - 2 ft	1 - 2 ft	1 - 2 ft	1 - 2 ft	1 - 2 ft	1 - 2 ft	1 - 2 ft	0 - 2 ft	1 - 2 ft	1 - 2 ft	1 - 2 ft	1 - 2 ft
Laboratory					LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory Work Order					UNKNOWN	1096931	1090550	1090550	1090550	1090550	1090550	1090550	UNKNOWN	1090550	1090550	1090076	1090076
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	5643361	5394562	5356712	5356705	5356714	5356716	5356711	5356710	5643360	5356709	5356703	5353917	5353915
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	748 <sup>A</sup>	69.7	138	291	829 <sup>A</sup>	519 <sup>A</sup>	637 <sup>A</sup>	262	563 <sup>A</sup>	428	131	1,250 <sup>AB</sup>	314

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					BH-08-14 6-May-08 BH-08-14_1.0-2.0 1 - 2 ft LANCASTER 1090076	BH-08-15 6-May-08 BH-08-15_1.0-2.0 1 - 2 ft LANCASTER 1090076	BH-08-16 7-May-08 BH-08-16_1.0-2.0 1 - 2 ft LANCASTER 1090550	BH-08-17 7-May-08 BH-08-17_1.0-2.0 1 - 2 ft LANCASTER 1090550	BH-08-18 7-May-08 BH-08-18_1.0-2.0 1 - 2 ft LANCASTER 1090550	BH-08-21 7-May-08 BH-08-21_1.0-2.0 1 - 2 ft LANCASTER 1090550	BH-08-22 7-May-08 BH-08-22_1.0-2.0 1 - 2 ft LANCASTER 1090550	BH-08-23 7-May-08 BH-08-23_1.0-2.0 1 - 2 ft LANCASTER 1090550	BH-08-24 7-May-08 BH-08-24_1.0-2.0 1 - 2 ft LANCASTER 1090550	BH-08-25 7-May-08 BH-08-25_1.0-2.0 1 - 2 ft LANCASTER 1090550	BH-08-26 8-May-08 BH-08-26_1.0-2.0 1 - 2 ft LANCASTER 1090550	BH-08-27 6-May-08 BH-08-27_1.0-2.0 1 - 2 ft LANCASTER 1090076	BH-08-28 6-May-08 BH-08-28_1.0-2.0 1 - 2 ft LANCASTER 1090076	
Sample Date																		
Sample ID																		
Sample Depth																		
Laboratory																		
Laboratory Work Order																		
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	5353913	5353911	5356699	5356701	5356700	5356702	5356706	5356708	5356707	5356704	5356715	5353914	5353916	
Metals																		
LEAD, Total	mg/kg	450	1,000	2,240	78.8	22.8	1,380 <sup>AB</sup>	102	22.2	540 <sup>A</sup>	213	374	172	223	261	89.7	132	

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					BH-08-29 6-May-08 BH-08-29_1.0-2.0 1 - 2 ft LANCASTER 1090076	BH-08-31 6-May-08 BH-08-31_1.0-2.0 1 - 2 ft LANCASTER 1090076	BH-08-32 3-Jul-08 BH-08-32_0.0-2.0 0 - 2 ft LANCASTER 1099596	BH-08-33 6-May-08 BH-08-33_1.5-2.0 1.5 - 2 ft LANCASTER 1090076	BH-08-34 6-May-08 BH-08-34_1.5-2.0 1.5 - 2 ft LANCASTER 1090076	BH-08-35 6-May-08 BH-08-35_1.0-2.0 1 - 2 ft LANCASTER 1090076	BH-09-09 7-Apr-09 BH-09-09 0 - 2 ft LANCASTER UNKNOWN	BH-10-01 26-Apr-10 BH-10-01_1-2 1 - 2 ft LANCASTER 1192441	BH-10-02 26-Apr-10 BH-10-02_1-2 1 - 2 ft LANCASTER 1192441	BH-10-03 27-Apr-10 BH-10-03_1-2 1 - 2 ft LANCASTER 1192441	BH-10-04 13-May-10 BH-10-04_1-2 1 - 2 ft LANCASTER 1194656	BH-10-05 9-Jun-10 BH-10-05_1.5-2.0 1.5 - 2 ft LANCASTER 1198982	BH-10-06 9-Jun-10 BH-10-06_1.2-1.7 1.2 - 1.7 ft LANCASTER 1198982
Laboratory		A	B	C													
Laboratory Work Order		MSC-PA	MSC-PA														
Laboratory Sample ID	Units	SO to GW	DC	SSS	5353910	5353907	5409889	5353908	5353909	5353912	5643350	5966975	5966976	5966977	5980695	6007722	6007721
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	96.4	1,300 <sup>AB</sup>	128	172	354	14.3	2,430 <sup>ABC</sup>	130	5,540 <sup>ABC</sup>	73.9	32.2	411	266

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					BH-10-07 10-Jun-10 BH-10-07_1.0-1.5 1 - 1.5 ft LANCASTER 1198982	BH-10-08 10-Jun-10 BH-10-08_1.5-2.0 1.5 - 2 ft LANCASTER 1198982	BH-10-09 10-Jun-10 BH-10-09_1.2-1.7 1.2 - 1.7 ft LANCASTER 1198982	BH-10-10 10-Jun-10 BH-10-10_1.5-2.0 1.5 - 2 ft LANCASTER 1198982	BH-10-11 10-Jun-10 BH-10-11_1.5-2.0 1.5 - 2 ft LANCASTER 1198982	BH-10-12 10-Jun-10 BH-10-12_1.5-2.0 1.5 - 2 ft LANCASTER 1198982	BH-10-13 9-Jun-10 BH-10-13_1.5-2.0 1.5 - 2 ft LANCASTER 1198982	BH-10-14 9-Jun-10 BH-10-14_1.5-2.0 1.5 - 2 ft LANCASTER 1198982	BH-10-15 9-Jun-10 BH-10-15_1.4-1.9 1.4 - 1.9 ft LANCASTER 1198982	BH-10-16 9-Jun-10 BH-10-16_1.5-2.0 1.5 - 2 ft LANCASTER 1198982	BH-10-17 9-Jun-10 BH-10-17_1.5-2.0 1.5 - 2 ft LANCASTER 1198982	BH-10-18 9-Jun-10 BH-10-18_1.5-2.0 1.5 - 2 ft LANCASTER 1198982	BH-10-19 9-Jun-10 BH-10-19_0.5-1.0 0.5 - 1 ft LANCASTER 1198982	
Sample Date																		
Sample ID																		
Sample Depth																		
Laboratory																		
Laboratory Work Order																		
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	6007732	6007730	6007731	6007729	6007728	6007727	6007723	6007724	6007725	6007726	6007720	6007719	6007718	
Metals																		
LEAD, Total	mg/kg	450	1,000	2,240	305	444	1,230 <sup>AB</sup>	725 <sup>A</sup>	184	414	320	531 <sup>A</sup>	280	616 <sup>A</sup>	47.8	478 <sup>A</sup>	365	

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					BH-10-20 8-Jun-10 BH-10-20_1.3-1.8 1.3 - 1.7 ft LANCASTER 1198982	BH-10-21 8-Jun-10 BH-10-21_1.0-1.5 1 - 1.5 ft LANCASTER 1198982	BH-10-22 8-Jun-10 BH-10-22_1.5-2.0 1.5 - 2 ft LANCASTER 1198982	BH-10-23 7-Jun-10 BH-10-23_1.0-1.5 1 - 1.5 ft LANCASTER 1198982	BH-10-24 7-Jun-10 BH-10-24_1.0-1.5 1 - 1.5 ft LANCASTER 1198982	BH-10-25 7-Jun-10 BH-10-25_1.2-1.7 1.2 - 1.7 ft LANCASTER 1198982	BH-10-26 7-Jun-10 BH-10-26_1.5-2.0 1.5 - 2 ft LANCASTER 1198982	BH-10-27 8-Jun-10 BH-10-27_1.5-2.0 1.5 - 2 ft LANCASTER 1198982	BH-10-28 7-Jun-10 BH-10-28_1.5-2.0 1.5 - 2 ft LANCASTER 1198982	BH-10-29 7-Jun-10 BH-10-29_0.7-1.2 0.7 - 1.2 ft LANCASTER 1198982	BH-10-30 7-Jun-10 BH-10-30_1.5-2.0 1.5 - 2 ft LANCASTER 1198982	BH-10-31 8-Jun-10 BH-10-31_1.5-2.0 1.5 - 2 ft LANCASTER 1198982	BH-10-32 8-Jun-10 BH-10-32_0.5-1.0 0.5 - 1 ft LANCASTER 1198982	
Sample Date																		
Sample ID																		
Sample Depth																		
Laboratory																		
Laboratory Work Order																		
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	6007717	6007716	6007715	6007703	6007702	6007704	6007705	6007709	6007708	6007706	6007707	6007714	6007713	
Metals																		
LEAD, Total	mg/kg	450	1,000	2,240	179	869 <sup>A</sup>	304	623 <sup>A</sup>	411	79.4	2,040 <sup>AB</sup>	393	155	395	250	610 <sup>A</sup>	298	

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					BH-10-33 8-Jun-10 BH-10-33_1.5-2.0 1.5 - 2 ft LANCASTER 1198982	BH-10-34 8-Jun-10 BH-10-34_1.0-1.5 1 - 1.5 ft LANCASTER 1198982	BH-10-35 8-Jun-10 BH-10-35_1.3-1.7 1.3 - 1.7 ft LANCASTER 1198982	BH-10-36 5-Apr-11 BH-10-36_0-2' 0 - 2 ft LANCASTER 1240830	BH-10-37 5-Apr-11 BH-10-37_0-2' 0 - 2 ft LANCASTER 1240830	BH-10-38 5-Apr-11 BH-10-38_0-2' 0 - 2 ft LANCASTER 1240830	BH-10-39 5-Apr-11 BH-10-39_0-2' 0 - 2 ft LANCASTER 1240830	BH-10-40 5-Apr-11 BH-10-40_0-2' 0 - 2 ft LANCASTER 1240830	BH-10-41 5-Apr-11 BH-10-41_0-2' 0 - 2 ft LANCASTER 1240830	BH-10-42 19-Apr-11 BH-10-42_0-2' 0 - 2 ft LANCASTER 1243395	BH-10-43 14-Apr-11 BH-10-43_0-2' 0 - 2 ft LANCASTER 1242848	BH-10-44 12-Apr-11 BH-10-44-WC_0-2' 0 - 2 ft LANCASTER 1242848	BH-10-45 12-Apr-11 BH-10-45-WC_0-2' 0 - 2 ft LANCASTER 1242848
Sample Date																	
Sample ID																	
Sample Depth																	
Laboratory																	
Laboratory Work Order																	
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	6007710	6007712	6007711	6250833	6250832	6250834	6250837	6250836	6250835	6265762	6262288	6262266	6262269
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	43.1	84.2	92.5	390	540 <sup>A</sup>	11.6	415	65.1	186	249	167	22.3	96.7

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					BH-10-46 12-Apr-11 BH-10-46-WC_0-2' 0 - 2 ft LANCASTER 1242848	BH-10-47 19-Apr-11 BH-10-47_0-2' 0 - 2 ft LANCASTER 1243395	BH-10-48 14-Apr-11 BH-10-48_0-2' 0 - 2 ft LANCASTER 1242848	BH-10-49 19-Apr-11 BH-10-49_0-2' 0 - 2 ft LANCASTER 1243395	BH-10-50 19-Apr-11 BH-10-50_0-2' 0 - 2 ft LANCASTER 1243395	BH-10-51 14-Apr-11 BH-10-51_0-2' 0 - 2 ft LANCASTER 1242848	BH-10-52 14-Apr-11 BH-10-52_0-2' 0 - 2 ft LANCASTER 1242848	BH-10-53 22-Apr-11 BH-10-53_0-2' 0 - 2 ft LANCASTER 1243734	BH-10-54 22-Apr-11 BH-10-54_0-2' 0 - 2 ft LANCASTER 1243734	BH-10-55 12-Apr-11 BH-10-55-WC_0-2' 0 - 2 ft LANCASTER 1242848	BH-10-56 12-Apr-11 BH-10-56-WC_0-2' 0 - 2 ft LANCASTER 1242848	BH-10-57 21-Apr-11 BH-10-57_0-2' 0 - 2 ft LANCASTER 1243734	BH-10-58 14-Apr-11 BH-10-58_0-2' 0 - 2 ft LANCASTER 1242848	
Sample Date																		
Sample ID																		
Sample Depth																		
Laboratory																		
Laboratory Work Order																		
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	6262263	6265764	6262289	6265763	6265765	6262290	6262291	6267987	6267988	6262272	6262275	6267996	6262294	
Metals																		
LEAD, Total	mg/kg	450	1,000	2,240	48.5	233	278	340	84.7	1,720 <sup>AB</sup>	1,480 <sup>AB</sup>	3,310 <sup>ABC</sup>	186	953 <sup>A</sup>	86.4	743 <sup>A</sup>	941 <sup>A</sup>	

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					BH-10-59 22-Apr-11 BH-10-59_0-2' 0 - 2 ft LANCASTER 1243735	BH-10-60 22-Apr-11 BH-10-60_0-2' 0 - 2 ft LANCASTER 1243734	BH-10-61 22-Apr-11 BH-10-61_0-2' 0 - 2 ft LANCASTER 1243734	BH-10-62 22-Apr-11 BH-10-62_0-2' 0 - 2 ft LANCASTER 1243734	BH-10-63 13-Apr-11 BH-10-63-WC_0-2' 0 - 2 ft LANCASTER 1242848	BH-10-64 13-Apr-11 BH-10-64-WC_0-2' 0 - 2 ft LANCASTER 1242848	BH-10-65 14-Apr-11 BH-10-65_0-2' 0 - 2 ft LANCASTER 1242848	BH-10-66 21-Apr-11 BH-10-66_0-2' 0 - 2 ft LANCASTER 1243734	BH-10-67 21-Apr-11 BH-10-67_0-2' 0 - 2 ft LANCASTER 1243734	BH-10-68 14-Apr-11 BH-10-68_0-2' 0 - 2 ft LANCASTER 1242848	BH-10-69 12-Apr-11 BH-10-69-WC_0-2' 0 - 2 ft LANCASTER 1242848	BH-10-70 11-Apr-11 BH-10-70-WC @0'-2' 0 - 2 ft LANCASTER 1241810	BH-10-71 5-Apr-11 BH-10-71_0-2' 0 - 2 ft LANCASTER 1240830
Sample Date																	
Sample ID																	
Sample Depth																	
Laboratory																	
Laboratory Work Order																	
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	6267997	6267991	6267990	6267989	6262281	6262284	6262293	6267983	6267982	6262292	6262260	6256388	6250838
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	401	777 <sup>A</sup>	118	2,580 <sup>ABC</sup>	25.2	229	307	250	985 <sup>A</sup>	94.2	21.2	20.8	244

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					BH-10-72 5-Apr-11 BH-10-72_0-2' 0 - 2 ft LANCASTER 1240830	BH-10-73 5-Apr-11 BH-10-73_0-2' 0 - 2 ft LANCASTER 1240830	BH-10-75 19-Apr-11 BH-10-75_0-2' 0 - 2 ft LANCASTER 1243734	BH-10-76 20-Apr-11 BH-10-76_0-2' 0 - 2 ft LANCASTER 1243395	BH-10-77 13-Apr-11 BH-10-77-WC_0-2' 0 - 2 ft LANCASTER 1242848	BH-10-78 21-Apr-11 BH-10-78_0-2' 0 - 2 ft LANCASTER 1243734	BH-10-79 21-Apr-11 BH-10-79_0-2' 0 - 2 ft LANCASTER 1243734	BH-10-80 21-Apr-11 BH-10-80_0-2' 0 - 2 ft LANCASTER 1243734	BH-10-81 21-Apr-11 BH-10-81_0-2' 0 - 2 ft LANCASTER 1243734	BH-10-82 20-Apr-11 BH-10-82_0-2' 0 - 2 ft LANCASTER 1243734	BH-10-83 21-Apr-11 BH-10-83_0-2' 0 - 2 ft LANCASTER 1243734	BH-11-09 7-Apr-09 BH-11-09 0 - 2 ft LANCASTER UNKNOWN	BH-12-09 6-Apr-09 BH-12-09 0 - 2 ft LANCASTER UNKNOWN
Sample Date																	
Sample ID																	
Sample Depth																	
Laboratory																	
Laboratory Work Order																	
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	6250839	6250840	6267992	6265769	6262278	6267984	6267985	6267986	6267994	6267993	6267995	5643351	5640516
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	946 <sup>A</sup>	4,550 <sup>ABC</sup>	192	1,990 <sup>AB</sup>	225	79.3	145	234	242	584 <sup>A</sup>	402	613 <sup>A</sup>	806 <sup>A</sup>

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					BH-13-06 22-Mar-06 BH-13-06-032206-1-1.5 1 - 1.5 ft LANCASTER UNKNOWN	BH-13-07 4-Apr-07 BH-13-07_0.5-1.0 0.5 - 1 ft UNKNOWN EZ_2007_Soil	BH-13-09 6-Apr-09 BH-13-09 1 - 2 ft LANCASTER UNKNOWN	BH-13-66 6-Nov-13 AOI-8-BH-13-66-0-2 0 - 2 ft ACCUTEST JB52453R	BH-14-06 23-Mar-06 BH-14-06-032306-0.5-1 0.5 - 1 ft LANCASTER UNKNOWN	BH-15-09 6-Apr-09 BH-15-09 0.5 - 2 ft LANCASTER UNKNOWN	BH-16-09 6-Apr-09 BH-16-09 0 - 2 ft LANCASTER UNKNOWN	BH-17-09 8-Apr-09 BH-17-09 0 - 2 ft LANCASTER UNKNOWN	BH-18-09 8-Apr-09 BH-18-09 0 - 2 ft LANCASTER UNKNOWN	BH-19-09 8-Apr-09 BH-19-09 0 - 2 ft LANCASTER UNKNOWN	BH-20-06 20-Mar-06 BH-20-06-032006-1-1.5 1 - 1.5 ft LANCASTER UNKNOWN	BH-20-07 11-Jul-07 BH-20-07_0.75-2.0 0.75 - 2 ft UNKNOWN EZ_2007_Soil
Laboratory		A	B	C												
Laboratory Work Order		MSC-PA	MSC-PA													
Laboratory Sample ID	Units	SO to GW	DC	SSS	4736396	UNKNOWN	5640521	JB52453-2	4736397	5640520	5640519	5643364	5643365	5643366	4734389	UNKNOWN
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	283	310	298	48.1	1,040 <sup>AB</sup>	323	2,030 <sup>AB</sup>	790 <sup>A</sup>	327	228	145	21.7

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					BH-20-09	BH-21-06	BH-21-07	BH-21-09	BH-22-06	BH-22-09	BH-23-06	BH-23-07	BH-23-09	BH-24-06	BH-24-07	BH-24-09
Sample Date					8-Apr-09	20-Mar-06	4-Apr-07	8-Jun-09	21-Mar-06	8-Jun-09	21-Mar-06	11-Jul-07	8-Jun-09	21-Mar-06	4-Apr-04	8-Jun-09
Sample ID					BH-20-09	BH-21-06-032006-1.5-2	BH-21-07_1.75-2	BH-21-09	BH-22-06-032106-1.5-2	BH-22-09	BH-23-06-032106-1-1.5	BH-23-07_0-0.5	BH-23-09	BH-24-06-032106-1-1.5	BH-24-07_1.5-2	BH-24-09
Sample Depth					0 - 2 ft	1.5 - 2 ft	1.75 - 2 ft	0 - 2 ft	1.5 - 2 ft	0 - 2 ft	1 - 1.5 ft	0 - 0.5 ft	0 - 2 ft	1 - 1.5 ft	1.5 - 2 ft	0 - 2 ft
Laboratory					LANCASTER	LANCASTER	UNKNOWN	LANCASTER	LANCASTER	LANCASTER	LANCASTER	UNKNOWN	LANCASTER	LANCASTER	UNKNOWN	LANCASTER
Laboratory Work Order					UNKNOWN	UNKNOWN	EZ_2007_Soil	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	EZ_2007_Soil	UNKNOWN	UNKNOWN	EZ_2007_Soil	UNKNOWN
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	5643367	4734390	UNKNOWN	5695049	4734394	5695047	4734391	UNKNOWN	5695048	4734392	UNKNOWN	5695050
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	453 <sup>A</sup>	286	26.7	1,210 <sup>AB</sup>	165	1,780 <sup>AB</sup>	417	1,920 <sup>AB</sup>	1,220 <sup>AB</sup>	233	152	1,100 <sup>AB</sup>

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					BH-25-06 21-Mar-06	BH-25-07 11-Jul-07	BH-25-09 7-Apr-09	BH-26-06 24-Mar-06	BH-26-07 11-Jul-07	BH-26-09 7-Apr-09	BH-27-06 23-Mar-06	BH-27-07 12-Jul-07	BH-27-09 8-Apr-09	BH-28-06 23-Mar-06	BH-28-07 4-Apr-07	BH-28-09 8-Apr-09
Sample Date					BH-25-06-032106-1-1.5	BH-25-07_1-2	BH-25-09	BH-26-06-032406-0.5-1	BH-26-07_1-2	BH-26-09	BH-27-06-032306-1-1.5	BH-27-07_1.5-2.0	BH-27-09	BH-28-06-032306-1-1.5	BH-28-07_0.5	BH-28-09
Sample ID					1 - 1.5 ft	1 - 2 ft	0 - 2 ft	0.5 - 1 ft	1 - 2 ft	0 - 2 ft	1 - 1.5 ft	1.5 - 2 ft	0 - 2 ft	1 - 1.5 ft	0.5 - 1 ft	0 - 2 ft
Sample Depth					LANCASTER	UNKNOWN	LANCASTER	LANCASTER	UNKNOWN	LANCASTER	LANCASTER	UNKNOWN	LANCASTER	LANCASTER	PACE	LANCASTER
Laboratory		A	B	C	UNKNOWN	EZ_2007_Soil	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	EZ_2007_Soil	UNKNOWN	UNKNOWN	72720	UNKNOWN
Laboratory Work Order		MSC-PA	MSC-PA													
Laboratory Sample ID	Units	SO to GW	DC	SSS	4734393	UNKNOWN	5643359	4738884	UNKNOWN	5643354	4736392	UNKNOWN	5643349	4736393	0704-0933	5643346
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	231	103	1,100 <sup>AB</sup>	32.6	41.7	102	167	3,700 <sup>ABC</sup>	463 <sup>A</sup>	200	310	993 <sup>A</sup>

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					BH-29-06 21-Mar-06	BH-29-09 8-Apr-09	BH-30-09 8-Apr-09	BH-31-09 13-Jul-09	BH-32-09 13-Jul-09	BH-33-07 4-Apr-07	BH-33-09 9-Jul-09	BH-34-09 9-Jul-09	BH-35-09 9-Jul-09	BH-36-07 4-Apr-07	BH-36-09 9-Jul-09	BH-37-09 9-Jul-09
Sample Date					BH-29-06-032106-1.5-2	BH-29-09	BH-30-09	BH-31-09	BH-32-09	BH-33-07_1-2	BH-33-09	BH-34-09	BH-35-09	BH-36-07_1.75-2	BH-36-09	BH-37-09
Sample ID					1.5 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	1 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	1.75 - 2 ft	0 - 2 ft	0 - 2 ft
Sample Depth					LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	PACE	LANCASTER	LANCASTER	LANCASTER	PACE	LANCASTER	LANCASTER
Laboratory					UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	72720	UNKNOWN	UNKNOWN	UNKNOWN	72720	UNKNOWN	UNKNOWN
Laboratory Work Order					4734395	5643347	5643348	5722433	5722432	0704-0932	5720803	5720804	5720801	0704-0931	5720802	5720799
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS												
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	2,520 <sup>ABC</sup>	409	2,310 <sup>ABC</sup>	501 <sup>A</sup>	186	3,190 <sup>ABC</sup>	790 <sup>A</sup>	485 <sup>A</sup>	772 <sup>A</sup>	26.7	374	1,310 <sup>AB</sup>

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					BH-38-09	BH-39-07	BH-39-09	BH-40-09	BH-41-09	BH-42-09	BHSRTF-09-01	BHSRTF-09-02	BHSRTF-09-03	BHSRTF-09-04	BHSRTF-09-05	BHSRTF-09-06	BHSRTF-09-07
Sample Date					9-Jul-09	4-Apr-07	9-Jul-09	9-Jul-09	9-Jul-09	9-Jul-09	1-Jun-09	1-Jun-09	1-Jun-09	1-Jun-09	27-May-09	27-May-09	27-May-09
Sample ID					BH-38-09	BH-39-07_1.5-2	BH-39-09	BH-40-09	BH-41-09	BH-42-09	BHSRTF-09-01_1-2'	BHSRTF-09-02_1-2'	BHSRTF-09-03_1-2'	BHSRTF-09-04_1-2'	BHSRTF-09-05	BHSRTF-09-06	BHSRTF-09-07
Sample Depth					0 - 2 ft	1.5 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	1 - 2 ft	1 - 2 ft	1 - 2 ft	1 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					LANCASTER	PACE	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory Work Order		A	B	C	UNKNOWN	72720	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID	Units	MSC-PA SO to GW	MSC-PA DC	SSS	5720800	0704-0930	5720797	5720798	5720795	5720796	5693856	5693855	5693852	5693853	5686108	5686107	5686105
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	36.8	152	1,050 <sup>AB</sup>	219	387	183	18.9	23.6	19.8	1,180 <sup>AB</sup>	2,590 <sup>ABC</sup>	885 <sup>A</sup>	38.2

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					BHSRTF-09-08 27-May-09 BHSRTF-09-08 0 - 2 ft LANCASTER UNKNOWN	BHSRTF-09-09 3-Jun-09 BHSRTF-09-09_1-2' 1 - 2 ft LANCASTER UNKNOWN	BHSRTF-09-14 2-Jun-09 S-131SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	BNA-3 21-Aug-92 B087A9 0 - 2 ft UNKNOWN CCR Historical	BNA-11 17-Aug-92 B088A5 0 - 2 ft UNKNOWN CCR Historical	BNA-12 14-Aug-92 B089A2 0 - 2 ft UNKNOWN CCR Historical	BNA-14 14-Aug-92 B089A1 0 - 2 ft UNKNOWN CCR Historical	C-129 2-Jun-10 C-129_1-2 1 - 2 ft LANCASTER 1197775	C-130 2-Jun-10 C-130_1-2 1 - 2 ft LANCASTER 1197775	C-131 3-Jun-10 C-131_1-2 1 - 2 ft LANCASTER 1197775	C-136 28-May-10 C-136_1-2 1 - 2 ft LANCASTER 1196722	C-137 27-May-10 C-137_1-2 1 - 2 ft LANCASTER 1196722	C-138 27-May-10 C-138_1-2 1 - 2 ft LANCASTER 1196722
Laboratory		A	B	C													
Laboratory Work Order		MSC-PA	MSC-PA														
Laboratory Sample ID	Units	SO to GW	DC	SSS	5686106	5697300	5693869	P209531	P208791	P208744	P208743	6000420	6000419	6000424	5994015	5994014	5994013
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	1,120 <sup>AB</sup>	1,760 <sup>AB</sup>	534 <sup>A</sup>	650 <sup>A</sup>	32.3	88.7	228	252	814 <sup>A</sup>	396	218	251	103

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					C-139 2-Jun-10 C-139_1-2 1 - 2 ft LANCASTER 1197775	C-140 26-May-10 C-140_1-2 1 - 2 ft LANCASTER 1196722	C-142 3-Jun-10 C-142_1-2 1 - 2 ft LANCASTER 1197775	C-143 3-Jun-10 C-143_1-2 1 - 2 ft LANCASTER 1197775	C-165 5-Dec-12 C-165_1.5-2' 1.5 - 2 ft ACCUTEST JB23100	C-168 5-Dec-12 C-168_1.5-2' 1.5 - 2 ft ACCUTEST JB23100	C-169 5-Dec-12 C-169_1.5-2' 1.5 - 2 ft ACCUTEST JB23100	C-170 7-Jul-16 AOI7-C-170-0-2-070716 0 - 2 ft LANCASTER 1680744	C-171 5-Jul-16 AOI7-C-171-0-2-070516 0 - 2 ft LANCASTER 1680744	C-172 6-Jul-16 AOI7-C-172-0-2-070616 0 - 2 ft LANCASTER 1680744	GP U 677-1 8-Jun-11 GP U 677-1(1.5-2.0) 1.5 - 2 ft LANCASTER 1250778	GP U 677-2 8-Jun-11 GP U 677-2(0.8-1.3) 0.8 - 1.3 ft LANCASTER 1250778
Laboratory		A	B	C												
Laboratory Work Order		MSC-PA	MSC-PA													
Laboratory Sample ID	Units	SO to GW	DC	SSS	6000421	5994012	6000423	6000422	JB23100-13	JB23100-14	JB23100-15	8466413	8466396	8466402	6311687	6311688
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	98.7	98.6	1,370 <sup>AB</sup>	164	286	273	127	793 <sup>A</sup>	324	198	453 <sup>A</sup>	67.0

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					GP U 677-3 8-Jun-11	GP U 677-4 8-Jun-11	GP U 677-5 8-Jun-11	GP-270-S-6 29-Sep-09	GP-270-S-11 6-Oct-09	GP-270-S-13 6-Oct-09	GP-270-S-14 6-Oct-09	GP-270-S-15 6-Oct-09	GP1209-PP 23-Jan-12	GP1212-PP 23-Jan-12	GP280-03 29-Aug-16	GP280-08 29-Aug-16
Sample Date					GP U 677-3(1.5-2.0)	GP U 677-4(0.3-0.8)	GP U 677-5(0.8-1.3)	S-6 (1.5-2.0)	S-11 (1.5-2.0)	S-13 (1.0-1.5)	S-14 (1.0-1.5)	S-15 (1.5-2.0)	GP1209-PP-0.5	GP1212-PP-0.5	GP280-03-20160829-2.0	GP280-08-20160829-1.0
Sample ID					1.5 - 2 ft	0.3 - 0.8 ft	0.8 - 1.3 ft	1.5 - 2 ft	1.5 - 2 ft	1 - 1.5 ft	1 - 1.5 ft	1.5 - 2 ft	0.5 - 1 ft	0.5 - 1 ft	2 ft	1 ft
Sample Depth					LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory					1250778	1250778	1250778	1163948	1165331	1165331	1165331	1165331	1286382	1286383	1701349	1701349
Laboratory Work Order																
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	6311689	6311690	6311691	5790786	5799593	5799595	5799596	5799597	6530274	6530282	8557106	8557113
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	451 <sup>A</sup>	47.8	18.5	450	99.9	330	366	386	22.2	110	214	98.5

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					GP280-09 29-Aug-16 GP280-09-20160829-1.0 1 ft LANCASTER 1701349	GP280-10 29-Aug-16 GP280-10-20160829-2.0 2 ft LANCASTER 1701349	GP280-12 29-Aug-16 GP280-12-20160829-2.0 2 ft LANCASTER 1701349	GP768-4 28-Apr-16 GP768-4-(2')-20160428 2 ft LANCASTER 1655907	GP768-5 28-Apr-16 GP768-5-(2')-20160428 2 ft LANCASTER 1655907	GP768-6 28-Apr-16 GP768-6-(2')-20160428 2 ft LANCASTER 1655907	N-98 2-Jun-08 N-98_1.0-2.0 1 - 2 ft LANCASTER 1094202	N-99 17-Jun-08 N-99_1.0-2.0 1 - 2 ft LANCASTER 1096931	N-100 11-Jun-08 N-100_0.0-2.0 0 - 2 ft LANCASTER 1096046	N-101 16-Jun-08 N-101_1.0-2.0 1 - 2 ft LANCASTER 1096740	N-102 5-Jun-08 N-102_1.0-2.0 1 - 2 ft LANCASTER 1094908	N-103 6-Jun-08 N-103_1.0-2.0 1 - 2 ft LANCASTER 1095356
Sample Date																
Sample ID																
Sample Depth																
Laboratory																
Laboratory Work Order																
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	8557114	8557104	8557111	8358318	8358319	8358320	5378096	5394566	5389508	5393378	5382602	5385262
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	50.3	201	209	39.5	27.8	10.8	94.5	146	135	78.1	24.7	174

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					N-104 17-Jun-08 N-104_1.0-2.0 1 - 2 ft LANCASTER 1096931	N-105 17-Jun-08 N-105_1.0-2.0 1 - 2 ft LANCASTER 1096931	N-106 5-Jun-08 N-106_1.0-2.0 1 - 2 ft LANCASTER 1094908	N-107 17-Jun-08 N-107_1.0-2.0 1 - 2 ft LANCASTER 1096931	N-108 29-May-08 N-108_1.0-2.0 1 - 2 ft LANCASTER 1094202	N-109 17-Jun-08 N-109_1.0-2.0 1 - 2 ft LANCASTER 1096931	N-110 14-May-08 N-110_1.0-2.0 1 - 2 ft LANCASTER 1092714	N-111 14-May-08 N-111_1.0-2.0 1 - 2 ft LANCASTER 1092714	N-112 8-May-08 N-112_1.0-2.0 1 - 2 ft LANCASTER 1090550	N-113 15-May-08 N-113_1.0-2.0 1 - 2 ft LANCASTER 1092714	N-114 8-May-08 N-114_1.0-2.0 1 - 2 ft LANCASTER 1090550	N-115 28-May-08 N-115_0.0-2.0 0 - 2 ft LANCASTER 1093507	N-116 20-May-08 N-116_1.0-2.0 1 - 2 ft LANCASTER 1092715
Sample Date																	
Sample ID																	
Sample Depth																	
Laboratory																	
Laboratory Work Order																	
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	5394563	5394564	5382601	5394565	5378095	5394559	5369564	5369565	5356717	5369566	5356718	5374123	5369570
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	164	36.4	76.7	173	147	294	15	117	11.6	77.9	139	1,250 N <sup>AB</sup>	340

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					N-117 4-Jun-08 N-117-1.0-2.0 1 - 2 ft LANCASTER 1094907	N-118 23-May-08 N-118_1.0-2.0 1 - 2 ft LANCASTER 1093507	N-119 17-Jun-08 N-119_1.0-2.0 1 - 2 ft LANCASTER 1096931	N-120 22-May-08 N-120_1.0-2.0 1 - 2 ft LANCASTER 1092862	N-121 9-Jun-08 N-121_1.0-2.0 1 - 2 ft LANCASTER 1095850	N-122 7-May-08 N-122_1.0-2.0 1 - 2 ft LANCASTER 1090550	N-123 20-May-08 N-123_1.0-2.0 1 - 2 ft LANCASTER 1092715	N-124 21-May-08 N-124_1.0-2.0 1 - 2 ft LANCASTER 1092715	N-125 17-Jun-08 N-125_1.0-2.0 1 - 2 ft LANCASTER 1096931	N-126 17-Jun-08 N-126_1.0-2.0 1 - 2 ft LANCASTER 1094202	N-127 22-May-08 N-127_1.0-2.0 1 - 2 ft LANCASTER 1092862	N-128 20-May-08 N-128_1.0-2.0 1 - 2 ft LANCASTER 1092715	N-129 17-Jun-08 N-129_1.0-2.0 1 - 2 ft LANCASTER 1096931
Sample Date																	
Sample ID																	
Sample Depth																	
Laboratory																	
Laboratory Work Order																	
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	5382600	5374122	5394561	5370418	5388263	5356713	5369572	5369573	5394567	5394558	5370416	5369571	5394557
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	219	200 N	101	181	64	207	254	43.9	150	912 <sup>A</sup>	191	61.4	31.3

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					N-130 16-May-08 N-130_0.0-2.0 1 - 2 ft LANCASTER 1092716	N-131 17-Jun-08 N-131_1.0-2.0 1 - 2 ft LANCASTER 1096931	N-132 13-May-08 N-132_1.0-2.0 1 - 2 ft LANCASTER 1091319	N-133 15-May-08 N-133_1.0-2.0 1 - 2 ft LANCASTER 1092714	N-134 22-May-08 N-134_1.0-2.0 1 - 2 ft LANCASTER 1092862	N-135 15-May-08 N-135_1.0-2.0 1 - 2 ft LANCASTER 1092714	N-136 15-May-08 N-136_1.0-2.0 1 - 2 ft LANCASTER 1092714	N-140 5-Nov-13 AOI-8-N-140-0-2 0 - 2 ft ACCUTEST JB52159	N-141 4-Nov-13 AOI-8-N-141-0-2 0 - 2 ft ACCUTEST JB52159	N-142 7-Nov-13 AOI-8-N-142-0-2 0 - 2 ft ACCUTEST JB52677	N-143 4-Nov-13 AOI-8-N-143-0-2 0 - 2 ft ACCUTEST JB52159	N-144 6-Nov-13 AOI-8-N-144-0-2 0 - 2 ft ACCUTEST JB52453	N-145 6-Nov-13 AOI-8-N-145-0-2 0 - 2 ft ACCUTEST JB52453
Laboratory		A	B	C													
Laboratory Work Order		MSC-PA	MSC-PA														
Laboratory Sample ID	Units	SO to GW	DC	SSS	5369574	5394560	5361075	5369567	5370417	5369568	5369569	JB52159-4	JB52159-2	JB52677-1	JB52159-1	JB52453-6	JB52453-4
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	670 <sup>A</sup>	88.8	94.9	865 <sup>A</sup>	74.6	273	320	191	116	83.3	147	182	49.0

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					N-146 6-Nov-13 AOI-8-N-146-0-2 0 - 2 ft ACCUTEST JB52301	N-147D 14-Jul-16 AOI8-N-147D-0-2-20160714 0 - 2 ft ESC L847655	N-148D 12-Jul-16 AOI8-N-148D-0-2-20160712 0 - 2 ft ESC L847655	N-149D 15-Jul-16 AOI8-N-149D-0-2-20160715 0 - 2 ft ESC L847938	N-150 15-Jul-16 AOI8-N-150-0-2-20160715 0 - 2 ft ESC L847938	N-151 18-Jul-16 AOI8-N-151-0-2-20160718 0 - 2 ft ESC L847938	N-152 19-Jul-16 AOI8-N-152-0-2-20160719 0 - 2 ft ESC L848537	N-153 20-Jul-16 AOI8-N-153-0-2-20160720 0 - 2 ft ESC L848537	N-154 11-Jul-16 AOI8-N-154-0-2-20160711 0 - 2 ft ESC L846809	N-155 5-Aug-16 AOI8-N-155-0-2-20160805 0 - 2 ft ESC L851826	
Sample Date															
Sample ID															
Sample Depth															
Laboratory															
Laboratory Work Order															
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	JB52301-3	L847655-03	L847655-01	L847938-01	L847938-03	L847938-05	L848537-01	L848537-03	L846809-01	L851826-13	
Metals															
LEAD, Total	mg/kg	450	1,000	2,240	125	170	547 <sup>A</sup>	21.2	58.9	138 MI	86.4	108	5.890 <sup>ABC</sup>	375	

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					PB 30-PP 20-Jan-12	PB36-PP 18-Jan-12	PB-44-LINE-1 4-Sep-07	PB-44-LINE-2 4-Sep-07	PB-44-LINE-3 4-Sep-07	PB-44-LINE-4 4-Sep-07	PB-44-LINE-5 4-Sep-07	PB-44-LINE-6 4-Sep-07	PB125-PP 19-Jan-12	PB-140NE 22-Apr-10	PB-140NW 22-Apr-10	PB-140SE 22-Apr-10	PB-140SW 22-Apr-10	PB-141 NE 8-Apr-10	PB-141 NW 8-Apr-10
Sample Date					PB 30-PP-0.5 0 - 0.5 ft	PB36-PP-0.5 0 - 0.5 ft	PB-44-LINE-1 0.5 ft	PB-44-LINE-2 0.5 ft	PB-44-LINE-3 0.5 ft	PB-44-LINE-4 0.5 ft	PB-44-LINE-5 0.5 ft	PB-44-LINE-6 0.5 ft	PB125-PP-0.5 0.5 ft	140NE(1.0) 0.5 - 1 ft	140NW(1.0) 0.5 - 1 ft	140SE(1.0) 0.5 - 1 ft	140SW(1.0) 0.5 - 1 ft	141 NE (1.0) 0.5 - 1 ft	141 NW (1.0) 0.5 - 1 ft
Sample ID					LANCASTER 1286159	LANCASTER 1285804	PACE 076854	PACE 076854	PACE 076854	PACE 076854	PACE 076854	PACE 076854	LANCASTER 1285976	LANCASTER 1191780	LANCASTER 1191780	LANCASTER 1191780	LANCASTER 1191780	LANCASTER 1189820	LANCASTER 1189820
Sample Depth																			
Laboratory																			
Laboratory Work Order																			
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	6529293	6526889	0709-0949	0709-0950	0709-0951	0709-0952	0709-0953	0709-0954	6527993	5963128	5963129	5963127	5963126	5950769	5950772
Metals																			
LEAD, Total	mg/kg	450	1,000	2,240	1,830 <sup>AB</sup>	152	480 <sup>A</sup>	320	340	240	310	430	340	459 <sup>A</sup>	616 <sup>A</sup>	231	2,740 <sup>ABC</sup>	1,940 <sup>AB</sup>	425

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					PB-141 SE	PB-141 SW	PB-237NE	PB-237NW	PB-237SE	PB-237SW	PB-279 NE	PB-279 NW	PB-279 SE	PB-279 SW	PB-298NE	PB-298NW	PB-298SE
Sample Date					8-Apr-10	8-Apr-10	22-Apr-10	22-Apr-10	22-Apr-10	22-Apr-10	8-Apr-10	8-Apr-10	8-Apr-10	8-Apr-10	22-Apr-10	22-Apr-10	22-Apr-10
Sample ID					141 SE (1.0)	141 SW (1.0)	237NE(1.0)	237NW(1.0)	237SE(1.0)	237SW(1.0)	279 NE (1.0)	279 NW (1.0)	279 SE (1.0)	279 SW (1.0)	298NE(1.0)	298NW(1.0)	298SE(1.0)
Sample Depth					0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft
Laboratory					LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory Work Order					1189820	1189820	1191780	1191780	1191780	1191780	1189820	1189820	1189820	1189820	1191780	1191780	1191780
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	5950770	5950771	5963137	5963134	5963136	5963135	5950768	5950767	5950766	5950765	5963133	5963130	5963132
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	<u>1,200</u> <sup>AB</sup>	288	185	293	195	207	338	<u>1,470</u> <sup>AB</sup>	592 <sup>A</sup>	<u>3,080</u> <sup>ABC</sup>	448	193	<u>1,240</u> <sup>AB</sup>

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					PB-298SW 22-Apr-10 298SW(1.0) 0.5 - 1 ft LANCASTER 1191780	PB176-08 30-Aug-16 PB176-08-20160830-1.0 1 ft LANCASTER 1702107	PB176-09 31-Aug-16 PB176-09-20160831-1.0 1 ft LANCASTER 1702107	PB831-08 29-Aug-16 PB831-08-20160829-1.0 1 ft LANCASTER 1701495	PB831-09 29-Aug-16 PB831-09-20160829-1.0 1 ft LANCASTER 1701495	PB-847-1 16-Oct-06 AST-847-1/0-0.5 0 - 0.5 ft LANCASTER 1010396	PB-847-2 16-Oct-06 AST-847-2/0-0.5 0 - 0.5 ft LANCASTER 1010396	PB-847-3 16-Oct-06 AST-847-3/0-0.5 0 - 0.5 ft LANCASTER 1010396	PB-847-4 16-Oct-06 AST-847-4/0-0.5 0 - 0.5 ft LANCASTER 1010396	PB-847-5 16-Oct-06 AST-847-5/0-0.5 0 - 0.5 ft LANCASTER 1010396	PB-847-6 16-Oct-06 AST-847-6/0-0.5 0 - 0.5 ft LANCASTER 1010396	PH83-2 4-Nov-13 PH83-2 (1.0-1.5) 1 - 1.5 ft ACCUTEST JB52158
Laboratory Work Order		A MSC-PA SO to GW	B MSC-PA DC	C SSS	5963131	8560324	8560326	8557673	8557674	4892823	4892824	4892825	4892826	4892827	4892828	JB52158-6
Laboratory Sample ID	Units															
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	274	1,410 <sup>AB</sup>	18.2	547 <sup>A</sup>	240	268	185	177	35.1	154	15.8	25.2

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					PH83-4 5-Nov-13 PH83-4 (1.5-2.0) 1.5 - 2 ft ACCUTEST JB52160	PH83-5 5-Nov-13 PH83-5 (1.5-2.0) 1.5 - 2 ft ACCUTEST JB52160	PH83-BG1 4-Nov-13 PH83-BG1 (0.5-1.0) 0.5 - 1 ft ACCUTEST JB52158	PH83-BG2 4-Nov-13 PH83-BG2 (0.5-1.0) 0.5 - 1 ft ACCUTEST JB52158	PH83-BG3 4-Nov-13 PH83-BG3 (0.5-1.0) 0.5 - 1 ft ACCUTEST JB52158	S-39D 21-Jan-16 AOI4-S-39D-1.5-2-20160121 1.5 - 2 ft ACCUTEST JC13070	S-74DSRTF 20-Jul-09 S-74DSRTF_0'-2' 0 - 2 ft LANCASTER UNKNOWN	S-77DSRTF 2-Jun-09 S-77DSRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-108SRTF 2-Jun-09 S-108SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-109SRTF 18-Aug-09 S-109SRTF_0-2 0 - 2 ft LANCASTER UNKNOWN	S-110DSRTF 28-May-15 S-110DSRTF_0-2_052815 0 - 2 ft PACE 30149652	S-110SRTF 1-Jun-09 S-110SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN
Laboratory Work Order		A MSC-PA SO to GW	B MSC-PA DC	C SSS	JB52160-1	JB52160-2	JB52158-1	JB52158-2	JB52158-4	JC13070-1	5728768	5693866	5693867	5755523	30149652001	5693857
Laboratory Sample ID	Units															
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	13.2	99.5	170	6.720 <sup>ABC</sup>	60.3	49.5	675 <sup>A</sup>	3.110 <sup>ABC</sup>	690 <sup>A</sup>	775 <sup>A</sup>	59.1	70

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					S-112SRTF 1-Jun-09 S-112SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-113SRTF 1-Jun-09 S-113SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-114SRTF 1-Jun-09 S-114SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-115DSRTF 28-May-15 S-115DSRTF_0-2_052815 0 - 2 ft PACE 30149652	S-115SRTF 1-Jun-09 S-115SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-116SRTF 1-Jun-09 S-116SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-117SRTF 1-Jun-09 S-117SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-118SRTF 1-Jun-09 S-118SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-119D 1-Apr-05 BHS119D-040105-1-1.5 1 - 1.5 ft LANCASTER UNKNOWN	S-119SRTF 1-Jun-09 S-119SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-120SRTF 2-Jun-09 S-120SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-124SRTF 2-Jun-09 S-124SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	
Sample Date																	
Sample ID																	
Sample Depth																	
Laboratory																	
Laboratory Work Order																	
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	5693854	5693858	5693851	30149652003	5693850	5693849	5693848	5693847	4495328	5693846	5693859	5693863	
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	20.2	12.1	23.3	458 <sup>A</sup>	41.8	33.1	5,470 <sup>ABC</sup>	1,440 <sup>AB</sup>	24.9	39.3	1,300 <sup>AB</sup>	605 <sup>A</sup>	

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					S-125SRTF 2-Jun-09 S-125SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-126SRTF 2-Jun-09 S-126SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-127SRTF 2-Jun-09 S-127SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-128SRTF 2-Jun-09 S-128SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-129SRTF 24-Jun-09 S-129SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-131SRTF 20-Jul-09 S-131SRTF_0'-2' 0 - 2 ft LANCASTER UNKNOWN	S-132SRTF 2-Jun-09 S-132SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-133SRTF 24-Jun-09 S-133SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-134SRTF 2-Jun-09 S-134SRTF_1-2' 1 - 2 ft LANCASTER UNKNOWN	S-135 10-Jun-10 S-135_0-2 0 - 2 ft LANCASTER 1198981	S-135SRTF 29-May-15 S-135SRTF_0-2_052915 0 - 2 ft PACE 30149652	S-136SRTF 23-Jul-15 AO19_S-136SRTF_0-2_072315 0 - 2 ft PACE 30154428
Sample Date					5693864	5693860	5693862	5693861	5709536	5728767	5693868	5709537	5693865	6007700	30149652005	30154428004
Sample ID																
Sample Depth																
Laboratory																
Laboratory Work Order																
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS												
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	5,390 <sup>ABC</sup>	8.85	1,590 <sup>AB</sup>	4,600 <sup>ABC</sup>	1,100 <sup>AB</sup>	2,440 <sup>ABC</sup>	2,330 <sup>ABC</sup>	630 <sup>A</sup>	1,580 <sup>AB</sup>	4.31	205	943 <sup>A</sup>

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					S-138SRTF 25-Aug-16	S-139SRTF 25-Aug-16	S-140SRTF 25-Aug-16	S-142SRTF 26-Aug-16	S-144SRTF 26-Aug-16	S-145SRTF 26-Aug-16	S-198 8-Mar-05	S-205 10-Mar-05	S-208 8-Mar-05	S-211 10-Mar-05	S-212 10-Mar-05
Sample Date					S-138SRTF_1.5-2_082516	S-139SRTF_1.5-2_082516	S-140SRTF_1.5-2-082516	S-142SRTF_1.5-2_082616	S-144SRTF_1.5-2_082616	S-145SRTF_1.5-2_082616	BH-S198-030805-1.5-2	BH-S205-031005-1.5-2	BH-S208-030805-1.5-2	BH-S211-031005-1.5-2	BH-S212-031005-1-1.5
Sample ID					1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	1 - 1.5 ft
Sample Depth					PACE	PACE	PACE	PACE	PACE	PACE	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory					30194236	30194236	30194236	30194418	30194418	30194418	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order					30194236003	30194236005	30194236001	30194418001	30194418003	30194418006	4479507	4480726	4479505	4480729	4480727
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS											
Metals															
LEAD, Total	mg/kg	450	1,000	2,240	33.1	2,670 <sup>ABC</sup>	107	18.5	711 <sup>A</sup>	9.2	176	8.46	28.9	45	212

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					S-213 10-Mar-05 BH-S213-031005-1.5-2 1.5 - 2 ft LANCASTER UNKNOWN	S-214 9-Mar-05 BH-S214-030905-1-1.5 1 - 1.5 ft LANCASTER UNKNOWN	S-216 25-Mar-05 BH-S216-032505-1-1.5 1 - 1.5 ft LANCASTER UNKNOWN	S-217 1-Apr-05 BH-S217-040105-1-1.5 1 - 1.5 ft LANCASTER UNKNOWN	S-218D 5-Feb-16 AOI4-S218D-0.5-1.0-20160205 0.5 - 1 ft ACCUTEST JC14123	S-219 25-Mar-05 BH-S219-032505-1-1.5 1 - 1.5 ft LANCASTER UNKNOWN	S-220 1-Apr-05 BH-S220-040105-1-1.5 1 - 1.5 ft LANCASTER UNKNOWN	S-221 25-Mar-05 BH-S221-032505-1.5-2 1.5 - 2 ft LANCASTER UNKNOWN	S-222 4-Aug-05 BH-S222-080405-1-1.5 1 - 1.5 ft LANCASTER 954311	S-223 4-Aug-05 BH-S223-080405-1.5-2 1.5 - 2 ft LANCASTER 954311	S-224 4-Aug-05 BH-S224-080405-1-1.5 1 - 1.5 ft LANCASTER 954311	S-229 25-Mar-05 BH-S229-032505-1.5-2 1.5 - 2 ft LANCASTER UNKNOWN	
Sample Date																	
Sample ID																	
Sample Depth																	
Laboratory																	
Laboratory Work Order																	
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	4480728	4479508	4491372	4495326	JC14123-1	4491369	4495327	4491370	4578229	4578230	4578231	4491371	
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	127	18.6	60.8	10.2	500 <sup>A</sup>	8.99	7.58	102	143	18.2	192	16.7	

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					S-280 28-Apr-10 S-280_1-2 1 - 2 ft LANCASTER 1192441	S-282 27-Apr-10 S-282_1-2 1 - 2 ft LANCASTER 1192441	S-284 13-May-10 S-284_1-2 1 - 2 ft LANCASTER 1194656	S-285 27-Apr-10 S-285_1-2 1 - 2 ft LANCASTER 1192441	S-286 27-Apr-10 S-286_1-2 1 - 2 ft LANCASTER 1192441	S-288 17-Jun-10 S-288_1-2 1 - 2 ft LANCASTER 1200002	S-290 27-Apr-10 S-290_1-2 1 - 2 ft LANCASTER 1192441	S-291 26-Apr-10 S-291_1-2 1 - 2 ft LANCASTER 1192441	S-297 4-May-10 S-297_0-2 0 - 2 ft LANCASTER 1194091	S-298 25-May-10 S-298_1-2 1 - 2 ft LANCASTER 1196722	S-299 8-Jun-10 S-299_0-2 0 - 2 ft LANCASTER 1198981	S-300 19-May-10 S-300_0-2 0 - 2 ft LANCASTER 1195950	S-302 12-May-10 S-302S_1-2 1 - 2 ft LANCASTER 1194462
Laboratory		A	B	C													
Laboratory Work Order		MSC-PA	MSC-PA														
Laboratory Sample ID	Units	SO to GW	DC	SSS	5966982	5966981	5980696	5966980	5966979	6014020	5966978	5966974	5977139	5994011	6007701	5989369	5979372
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	266	87.3	14.3	536 <sup>A</sup>	151	223	320	254	58.7	96	12.2	168	47.7

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					S-303 21-May-10 S-303_0-2 0 - 2 ft LANCASTER 1195950	S-305 19-May-10 S-305S_0-2 0 - 2 ft LANCASTER 1195950	S-306 20-May-10 S-306_0-2 0 - 2 ft LANCASTER 1195950	S-307 10-Jun-10 S-307_0-2 0 - 2 ft LANCASTER 1198981	S-308 30-Apr-10 S-308_1-2 1 - 2 ft LANCASTER 1193050	S-309 29-Apr-10 S-309_1-2 1 - 2 ft LANCASTER 1193050	S-310 29-Apr-10 S-310_1-2 1 - 2 ft LANCASTER 1193050	S-311 29-Apr-10 S-311_1-2 1 - 2 ft LANCASTER 1193050	S-312 28-Apr-10 S-312_1-2 1 - 2 ft LANCASTER 1192441	S-313 6-May-10 S-313_0-2 0 - 2 ft LANCASTER 1194091	S-314 11-May-10 S-314_1-2 1 - 2 ft LANCASTER 1194462	S-315 11-May-10 S-315_1-2 1 - 2 ft LANCASTER 1194462	S-316 10-May-10 S-316_1-2 1 - 2 ft LANCASTER 1194462
Sample Date																	
Sample ID																	
Sample Depth																	
Laboratory																	
Laboratory Work Order																	
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	5989366	5989367	5989368	6007699	5970547	5970548	5970549	5970550	5966983	5977140	5979370	5979369	5979368
Metals																	
LEAD, Total	mg/kg	450	1,000	2,240	121	161	145	48.4	18.9	64.7	40.8	166	54.2	335	227	79.8	384

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location Sample Date Sample ID Sample Depth Laboratory Laboratory Work Order Laboratory Sample ID					S-317 7-May-10 S-317_0-2 0 - 2 ft LANCASTER 1194091 5977141	S-318 12-May-10 S-318_1-2 1 - 2 ft LANCASTER 1194462 5979371	S-330 9-May-11 S-330 (1.5-2) 1.5 - 2 ft LANCASTER 1246013 6281302	S-350 7-Mar-13 S-350_0-2' 0 - 2 ft ACCUTEST JB30720 JB30720-3	S-351 7-Mar-13 S-351_0-2' 0 - 2 ft ACCUTEST JB30720 JB30720-1	S-354 6-Mar-13 S-354_0-2' 0 - 2 ft ACCUTEST JB30589 JB30589-12	S-355 6-Mar-13 S-355_0-2 0 - 2 ft ACCUTEST JB30589 JB30589-15	S-356 6-Mar-13 AOI2_S-356_0-1_30613 0 - 1 ft ACCUTEST JB30589 JB30589-1	S-357 6-Mar-13 AOI2_S-357_0-.5_30613 0 - 0.5 ft ACCUTEST JB30589 JB30589-3	S-358 7-Mar-13 S-358_0-2_30713 0 - 2 ft ACCUTEST JB30720 JB30720-5	S-359 8-Mar-13 S-359_0-2' 0 - 2 ft ACCUTEST JB30878 JB30878-10	S-360 8-Mar-13 AOI2_S-360_0-1_30813 0 - 1 ft ACCUTEST JB30878 JB30878-3
	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS												
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	19.8	860 <sup>A</sup>	188	223	222	1,070 <sup>AB</sup>	69.6	339	726 <sup>A</sup>	300	99.5	75.7

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					S-361 8-Mar-13 AOI2_S-361_0-.5_30813 0 - 0.5 ft ACCUTEST JB30878	S-362 7-Mar-13 S-362_0-1_30713 0 - 1 ft ACCUTEST JB30720	S-363 8-Mar-13 S-363_0-2' 0 - 2 ft ACCUTEST JB30878	S-364 4-Mar-13 AOI4_S-364_.5-1_30413 0.5 - 1 ft ACCUTEST JB30309	S-365 4-Mar-13 S-365_0-2' 0 - 2 ft ACCUTEST JB30306	S-366 5-Mar-13 AOI4_S-366_0-1_30513 0 - 1 ft ACCUTEST JB30425	S-367 5-Mar-13 S-367_0-2' 0 - 2 ft ACCUTEST JB30425	S-368 5-Mar-13 AOI4_S-368_0-1_30513 0 - 1 ft ACCUTEST JB30425	S-369 4-Mar-13 S-369_0-2' 0 - 2 ft ACCUTEST JB30306	S-370 1-Mar-13 S-370-0-2 0 - 2 ft ACCUTEST JB30169	S-371 4-Mar-13 AOI4_S-371_1-1.5_30413 1 - 1.5 ft ACCUTEST JB30309	S-372 28-Feb-13 S-372_1-1.5' 1 - 1.5 ft ACCUTEST JB30168
Laboratory		A	B	C												
Laboratory Work Order		MSC-PA	MSC-PA													
Laboratory Sample ID	Units	SO to GW	DC	SSS	JB30878-1	JB30720-7	JB30878-8	JB30309-1	JB30306-4	JB30425-4	JB30425-1	JB30425-6	JB30306-1	JB30169-9	JB30309-3	JB30168-4
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	104	216	180	13.0	79.1	14.2	258	44.3	10.5	9.9	102	14.4

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					S-379	S-380	S-382	S-383	S-384	S-385	S-386	S-387	S-388D	S-389D	S-390D	S-391D
Sample Date					28-Feb-13	1-Mar-13	26-Jul-13	26-Jul-13	22-Jul-13	26-Jul-13	22-Jul-13	31-Jul-13	2-Dec-13	2-Dec-13	2-Dec-13	3-Dec-13
Sample ID					S-379_0-2'	S-380_0-2'	AOI3_S-382_1.5-2_72613	AOI3_S-383_0-1_072613	AOI3_S-384_1-2_72213	AOI3_S-385_1-2_72613	AOI3_S-386_0.5-1.0_72213	AOI3-S-387_1-2_73113	S-388_0-2'_120213	S-389_0-2'_120213	S-390_0-2'_120213	S-391_0-2'_120313
Sample Depth					0 - 2 ft	0 - 2 ft	1.5 - 2 ft	0 - 1 ft	1 - 2 ft	1 - 2 ft	0.5 - 1 ft	1 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	ACCUTEST	PACE	PACE	PACE	PACE
Laboratory Work Order					JB30168	JB30169	JB43269	JB43269	JB42803	JB43269	JB42803	JB43620	30108988	30108988	30108988	30108988
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	JB30168-1	JB30169-11	JB43269-3	JB43269-1	JB42803-1	JB43269-5	JB42803-3	JB43620-2	30108988001	30108988002	30108988003	30108988004
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	1.5 J	24.3	85.4	519 <sup>A</sup>	118	168	674 <sup>A</sup>	409	280 J	2,590 <sup>ABC</sup>	122	174

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					S-392D 3-Dec-13 S-392_0-2'_120313 0 - 2 ft PACE 30108988	S-402 18-Nov-14 AOI-1_S-402_0-2_111814 0 - 2 ft PACE 30135039	S-403 18-Nov-14 AOI-1_S-403_0-2_111814 0 - 2 ft PACE 30135039	S-404 18-Nov-14 AOI-1_S-404_0-2_111814 0 - 2 ft PACE 30135039	S-405 24-Nov-14 AOI-1_S-405_0-2'_112414 0 - 2 ft PACE 30135596	S-406 20-Mar-13 AOI2-WAREHOUSE#2_0-1_32013 0 - 1 ft ACCUTEST JB31923	S-407 7-Oct-15 AOI3_S-407_0-2_100715 0 - 2 ft ACCUTEST JC5789	S-408 9-Oct-15 AOI4_S-408_0-2_100915 0 - 2 ft ACCUTEST JC5896	S-410 8-Oct-15 AOI3_S-410_0-2_100815 0 - 2 ft ACCUTEST JC5789	S-411 7-Oct-15 AOI3_S-411_0-2_100715 0 - 2 ft ACCUTEST JC5789
Laboratory Work Order		A MSC-PA SO to GW	B MSC-PA DC	C SSS	30108988005	30135039003	30135039002	30135039001	30135596001	JB31923-10	JC5789-1	JC5896-2	JC5789-5	JC5789-4
Laboratory Sample ID	Units													
Metals														
LEAD, Total	mg/kg	450	1,000	2,240	9.630 <sup>ABC</sup>	178	579 <sup>A</sup>	228	402	6.5 J	13.4	1.560 <sup>AB</sup>	16.0	139

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location Sample Date Sample ID Sample Depth Laboratory Laboratory Work Order Laboratory Sample ID					S-412 13-Oct-15 AOI3_S-412_0-2_101315 0 - 2 ft ACCUTEST JC6121 JC6121-3	S-413 7-Oct-15 AOI3_S-413_0-2_100715 0 - 2 ft ACCUTEST JC5789 JC5789-2	S-414 7-Oct-15 AOI3_S-414_0-2_100715 0 - 2 ft ACCUTEST JC5789 JC5789-3	S-415 12-Oct-15 AOI4_S-415_0-2_101215 0 - 2 ft ACCUTEST JC6121 JC6121-1	S-416 20-Jun-16 AOI4-S-416-0-2-20160620 0 - 2 ft ESC L842835 L842835-03	S-417 19-Nov-14 AOI-1_S-417_0-2_111914 0 - 2 ft PACE 30135039 30135039004	S-418 19-Feb-15 AOI-1_S-418_0-2_021915 0 - 2 ft PACE 30141433 30141433006	S-419 28-Apr-15 AOI1_S-419_0-2_042815 0 - 2 ft PACE 30146821 30146821002	S-422 19-Jul-16 AOI2-S-422-0-2-20160719 0 - 2 ft PACE 30191134 30191134005	S-423 19-Jul-16 AOI2-S-423-0-2-20160719 0 - 2 ft PACE 30191134 30191134004	SR15-01 6-Jan-16 SR15-01-20160106-0.5 0.5 ft ACCUTEST JC12198 JC12198-1
	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS											
Metals															
LEAD, Total	mg/kg	450	1,000	2,240	128	114	544 <sup>A</sup>	241	86.2	46.7	9.4	806 <sup>A</sup>	93.0	635 <sup>A</sup>	46.0

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					SR15-02 6-Jan-16	SR15-04 19-Apr-16	SR15-05 19-Apr-16	SR15-06 19-Apr-16	SR15-07 1-Jun-16	SR15-08 1-Jun-16	SR15-09 1-Jun-16	SR26-PP-0.5 25-Jan-12	SR-31-1 7-Jun-11	SR-31-2 7-Jun-11	SR-31-3 7-Jun-11	SR-31-4 7-Jun-11
Sample Date					SR15-02-20160106-0.5	SR15-04-(1.5-2.0)-20160419	SR15-05-(1.5-2.0)-20160419	SR15-06-(1.0-1.5)-20160419	SR15-07 15-Jun-16	SR15-08 15-Jun-16	SR15-09 15-Jun-16	SR26-PP-0.5 0.5 ft	SR-31-1(1.3-1.8) 1.3 - 1.8 ft	SR-31-2(0.9-1.4) 0.9 - 1.4 ft	SR-31-3(0.8-1.3) 0.8 - 1.3 ft	SR-31-4(0.9-1.4) 0.9 - 1.4 ft
Sample ID					0.5 ft	1.5 - 2 ft	1.5 - 2 ft	1 - 1.5 ft	1.5 - 2 ft	1.5 - 2 ft	1.5 - 2 ft	0.5 ft	1.3 - 1.8 ft	0.9 - 1.4 ft	0.8 - 1.3 ft	0.9 - 1.4 ft
Sample Depth					ACCUTEST	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory					JC12198	1653109	1653109	1653109	1667876	1667876	1667876	1286788	1250778	1250778	1250778	1250778
Laboratory Work Order					JC12198-4	8345064	8345066	8345069	8408376	8408377	8408378	6532949	6311678	6311679	6311680	6311681
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS												
Metals																
LEAD, Total	mg/kg	450	1,000	2,240	56.7	569 <sup>A</sup>	206	516 <sup>A</sup>	78.2	98.6	269	31.5	1,120 <sup>AB</sup>	898 <sup>A</sup>	774 <sup>A</sup>	2,210 <sup>AB</sup>

See notes on last page.



Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					SR-31-5 7-Jun-11 SR-31-5(0.8-1.3) 0.8 - 1.3 ft LANCASTER 1250778	SR-31-6 7-Jun-11 SR-31-6(1.0-1.5) 1 - 1.5 ft LANCASTER 1250778	SR-31-7 7-Jun-11 SR-31-7(1.1-1.6) 1.1 - 1.6 ft LANCASTER 1250778	SR-31-8 7-Jun-11 SR-31-8(0.5-1.0) 0.5 - 1 ft LANCASTER 1250778	SR-31-9 7-Jun-11 SR-31-9(1.2-1.7) 1.2 - 1.7 ft LANCASTER 1250778	SS-1 15-Apr-11 SS-1 0.5 ft UNKNOWN EZ_2011_Soil	SS-10 15-Apr-11 SS-10 0.5 ft UNKNOWN EZ_2011_Soil	SS-2 15-Apr-11 SS-2 0.5 ft UNKNOWN EZ_2011_Soil	SS-3 15-Apr-11 SS-3 0.5 ft UNKNOWN EZ_2011_Soil	SS-4 15-Apr-11 SS-4 0.5 ft UNKNOWN EZ_2011_Soil	SS-5 15-Apr-11 SS-5 0.5 ft UNKNOWN EZ_2011_Soil	SS-6 15-Apr-11 SS-6 0.5 ft UNKNOWN EZ_2011_Soil	SS-7 15-Apr-11 SS-7 0.5 ft UNKNOWN EZ_2011_Soil	SS-8 15-Apr-11 SS-8 0.5 ft UNKNOWN EZ_2011_Soil	SS-9 15-Apr-11 SS-9 0.5 ft UNKNOWN EZ_2011_Soil	W-1D 5-Apr-11 W-1D_0-2' 0 - 2 ft LANCASTER 1240830
Laboratory Work Order		A MSC-PA SO to GW	B MSC-PA DC	C SSS	6311682	6311683	6311684	6311685	6311686	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID	Units																			
Metals																				
LEAD, Total	mg/kg	450	1,000	2,240	<u>1,890</u> <sup>AB</sup>	<u>780</u> <sup>A</sup>	<u>1,370</u> <sup>AB</sup>	<u>1,560</u> <sup>AB</sup>	<u>830</u> <sup>A</sup>	169	116	209	270	190	233	169	440	96.8	111	76.5

See notes on last page.

Attachment 4 - Table 1  
Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

Sample Location					W-28	W-29	W-30	W-31	W-32D	W-33	W-34
Sample Date					19-Apr-11	19-Apr-11	15-Apr-11	15-Apr-11	7-Apr-11	20-Apr-11	20-Apr-11
Sample ID					W-28_0-2'	W-29_0-2'	W-30 @0'-2'	W-31 @0'-2'	W-32D_0-2'	W-33_0-2'	W-34_0-2'
Sample Depth					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Laboratory					LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER	LANCASTER
Laboratory Work Order					1243395	1243395	1242849	1242849	1241313	1243395	1243395
Laboratory Sample ID	Units	A MSC-PA SO to GW	B MSC-PA DC	C SSS	6265767	6265766	6262298	6262297	6253863	6265770	6265768
Metals											
LEAD, Total	mg/kg	450	1,000	2,240	181	259	1,990 <sup>AB</sup>	955 <sup>A</sup>	1,200 <sup>AB</sup>	297	561 <sup>A</sup>

See notes on last page.



Attachment 4 - Table 1

Soil Analytical Results Summary – Sitewide Lead in Surface Soil, Former Philadelphia Refinery,  
Lead Data Collected During Remedial Investigations and During Supplemental Sampling in 2021  
Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC

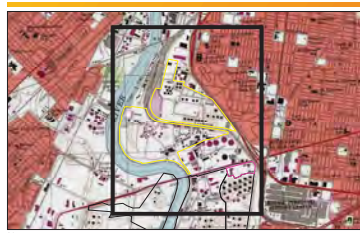
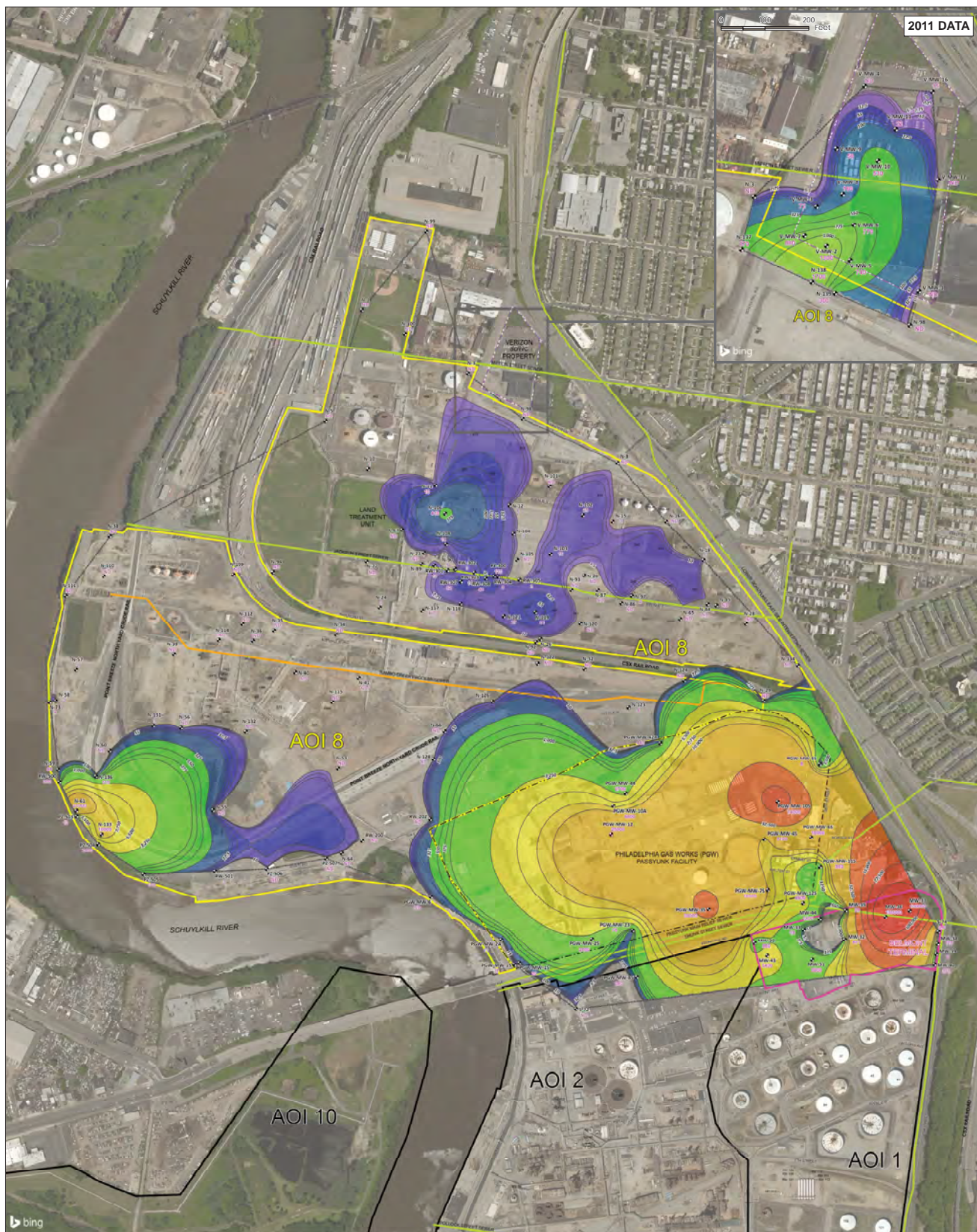
MSC-PA	Pennsylvania Department of Environmental Protection
<sup>A</sup>	MSCs for Organic/Inorganic Regulated Substances in Soil – Soil to Groundwater, Higher of the 100x the Groundwater MSC and the Generic Value (Unsaturated) – Non-Residential
<sup>B</sup>	MSCs for Organic/Inorganic Regulated Substances in Soil - Direct Contact - Non-Residential Surface Soil (0-2 ft).
SSS <sup>C</sup>	Site Specific Standard for Lead (0-2 ft)
6.5 <sup>A</sup>	Concentration exceeds the indicated standard A.
6.5 <sup>B</sup>	Concentration exceeds the indicated standard B.
6.5 <sup>C</sup>	Concentration exceeds the indicated standard C.
15.2	Measured concentration did not exceed the indicated standard.
ND (0.03)	Analyte was not detected at a concentration greater than the laboratory reporting limit.
BF	Results are biased high and should be considered estimated.
J	Indicates an estimated value
L	Sample result is estimated and biased low.
MI	Matrix Interference
N	Indicates Presumptive Evidence Of A Compound. This Flag Is Usually Used For A Tentatively Identified Compound, Where The Identification Is Based On A Mass Spectral Library Search.
mg/kg	milligrams per kilogram
ESC	ESC Lab Sciences/Pace Analytical National Center for Testing & Innovation
ft	feet



### **Attachment 5 - Table of Figures**

- Figure 9-1**      Unconfined Aquifer Benzene Maximum Concentration – 2002 to 2008 Data (With 2011 Inset Map), Stantec 2017
- Figure 9-2**      Unconfined Aquifer Benzene Maximum Concentration – 2014 to 2016 Data, Stantec 2017





- LEGEND**
- MONITORING/RECOVERY WELL
  - BENZENE MAXIMUM CONCENTRATION (ug/L)
  - APPROXIMATE LOCATION OF PHILADELPHIA WATER DEPARTMENT SEWER
  - APPROXIMATE LOCATION OF RAMBO CREEK PROCESS SEWER
  - PHILADELPHIA GAS WORKS (PGW) PASSUNK FACILITY
  - VERIZON SOUTH DISTRICT WORK CENTER (SDWC) PROPERTY
  - AREA OF INTEREST (AOI) BOUNDARY
  - AOI 8 BOUNDARY
  - BELMONT TERMINAL
  - CROPPED GRID EXTENT
  - MAXIMUM CONCENTRATION OF BENZENE [ug/L]
  - ND NOT DETECTED

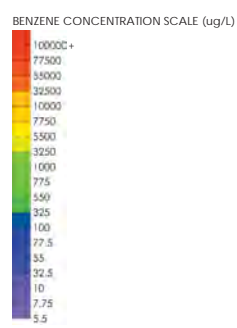


Figure No. 9-1

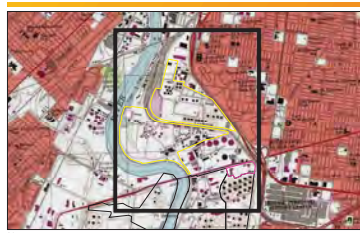
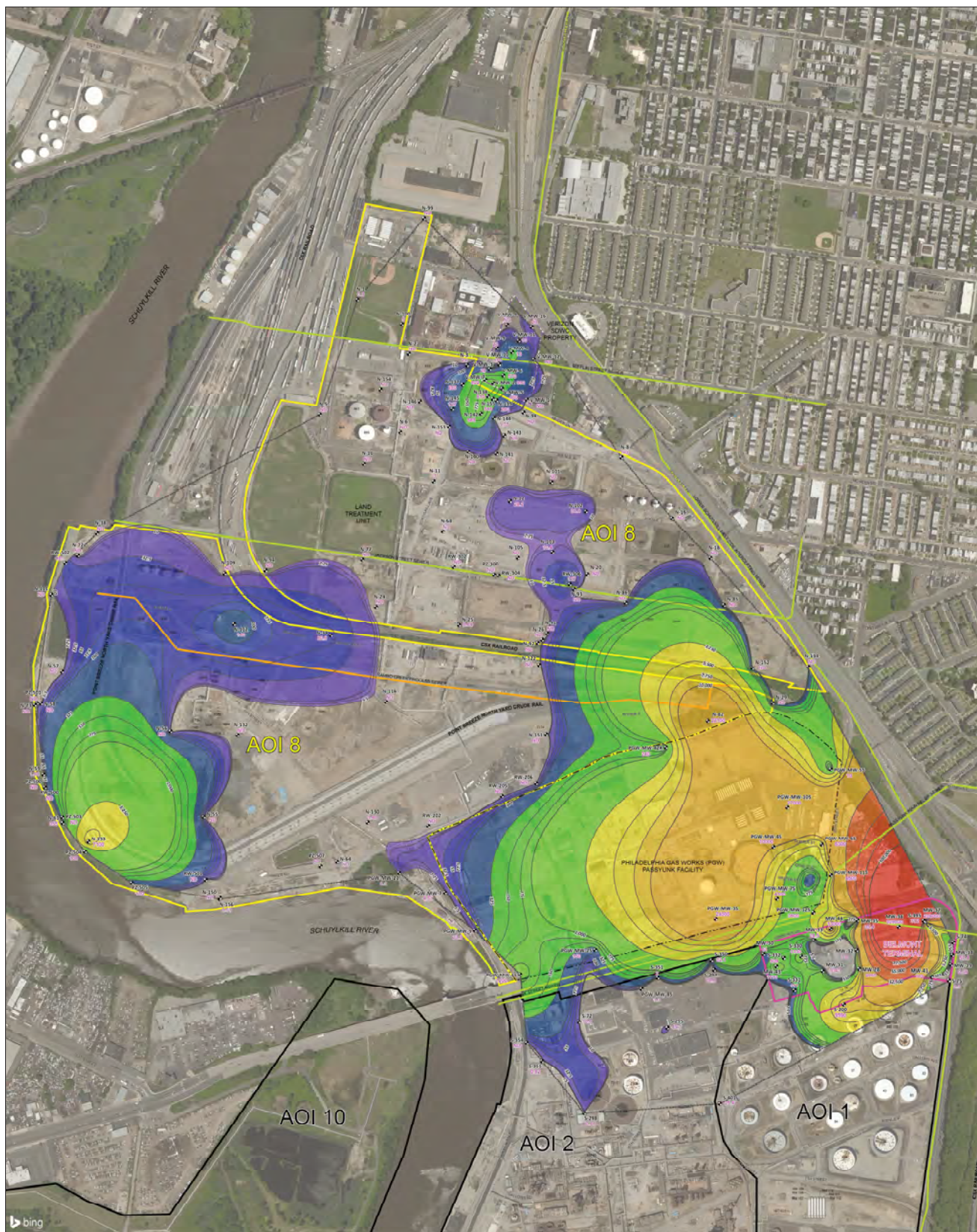
**UNCONFINED AQUIFER BENZENE MAXIMUM CONCENTRATION - 2002 TO 2008 DATA (WITH 2011 INSET MAP)**

Client/Project  
 PHILADELPHIA REFINERY OPERATIONS, A SERIES OF  
 EVERGREEN RESOURCES GROUP, LLC  
 PHILADELPHIA REFINING COMPLEX  
 3144 PASSUNK AVENUE, PHILADELPHIA, PA 19145

Project Location  
 City of Philadelphia,  
 Philadelphia County,  
 Pennsylvania

213402435  
 Prepared by GWC on 11/20/2017  
 Technical Review by ADK on 11/20/2017  
 Independent Review by JLM on 11/21/2017





Notes

1. Coordinate System: NAD 1983 StatePlane Pennsylvania South HPS 3702 Feet North American Vertical Datum of 1988 (NAVD 88)
2. Sources: Stantec
3. Labels denote well identifier and benzene concentration in micrograms per liter (ug/L)
4. Contour Interval - Logarithmic: 25 levels per log cycle
5. Analytical data was interpolated using the Kriging geostatistical method in Surfer
6. Aerial & Topo © 2017 DigitalGlobe, ICES (2017) Distribution Airbus DS © 2017 Microsoft Corporation
- Copyright © 2013 National Geographic Society, iCloud
- Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation

- LEGEND**
- MONITORING/RECOVERY WELL
  - 2014 TO 2016 BENZENE MAXIMUM CONCENTRATION (ug/L)
  - APPROXIMATE LOCATION OF PHILADELPHIA WATER DEPARTMENT SEWER
  - APPROXIMATE LOCATION OF RAMBO CREEK PROCESS SEWER
  - PHILADELPHIA GAS WORKS (PGW) PASSUNK FACILITY
  - VERIZON SOUTH DISTRICT WORK CENTER (SDWC) PROPERTY
  - AREA OF INTEREST (AOI) BOUNDARY
  - AOI 8 BOUNDARY
  - BELMONT TERMINAL
  - CROPPED GRID EXTENT
  - MAXIMUM CONCENTRATION OF BENZENE [ug/L]
  - ND NOT DETECTED

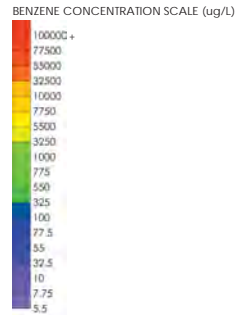


Figure No. 9-2

Title UNCONFINED AQUIFER BENZENE MAXIMUM CONCENTRATION - 2014 TO 2016 DATA

Client/Project PHILADELPHIA REFINERY OPERATIONS, A SERIES OF EVERGREEN RESOURCES GROUP, LLC PHILADELPHIA REFINING COMPLEX 3144 PASSUNK AVENUE, PHILADELPHIA, PA 19145

Project Location City of Philadelphia, Philadelphia County, Pennsylvania

Prepared by GWC on 11/20/2017  
Technical Review by ADK on 11/20/2017  
Independent Review by AJM on 11/27/2017







## **Attachment 6 - Table of Contents**

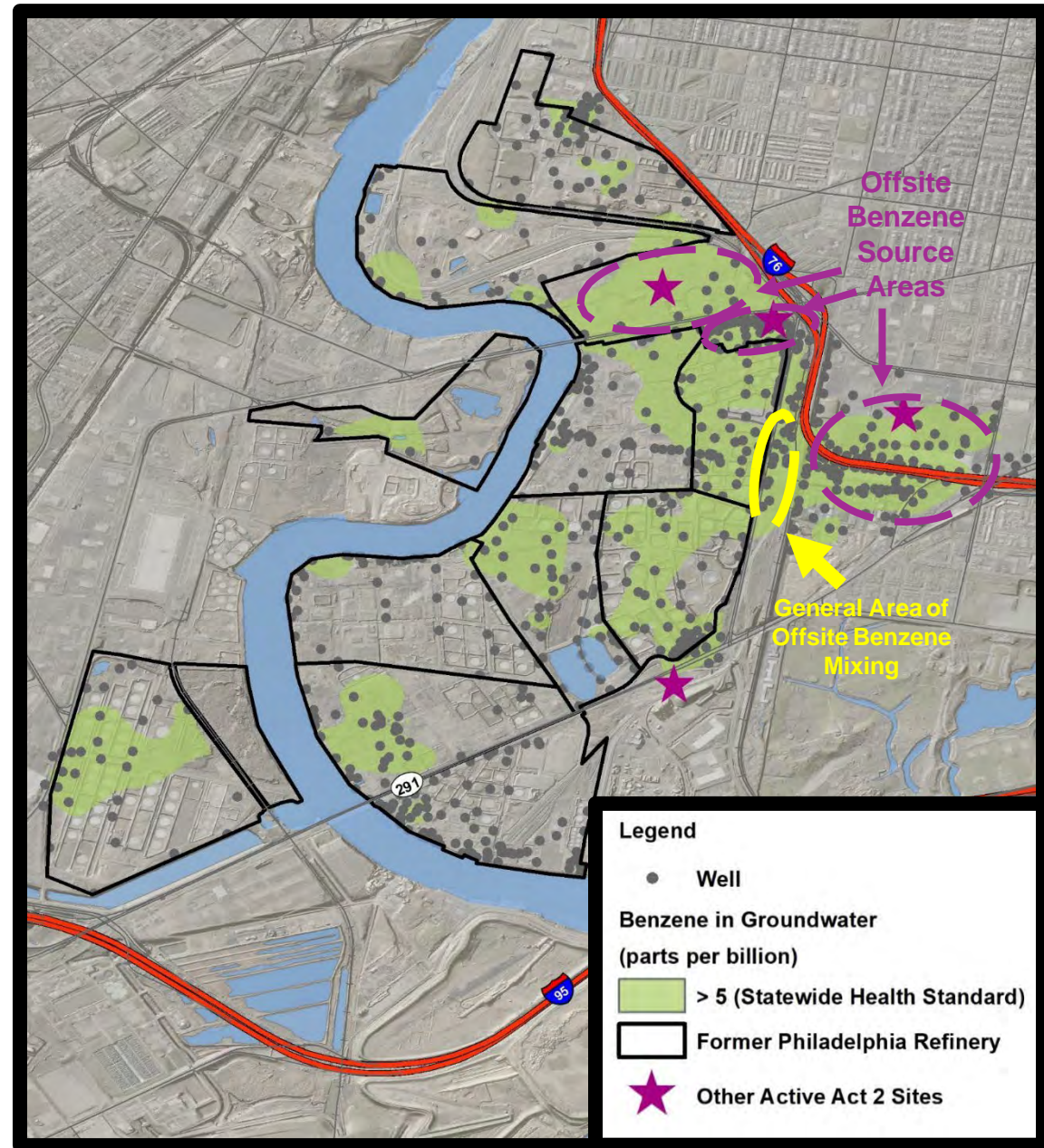
- Item 1**      Evergreen Public Meeting Presentation (8/27/2020) – Slides 38 and 39 –  
Groundwater Investigation Results – Benzene, Evergreen 2020

# Groundwater Investigation Results | Benzene

## Water-Table Aquifer

- Benzene considered a primary driver
- Includes 788 well samples (dots)
- Includes data from other offsite Act 2 facilities
- Represents data of current conditions (2014-2019)
- Green area indicates concentrations above the SHS
- Demonstrates delineation in most areas

Figures are from slides 38-39 from the presentation given during the Evergreen August 27, 2020 Public Meeting. This entire presentation is included on the Evergreen website at <https://phillyrefinerycleanup.info>



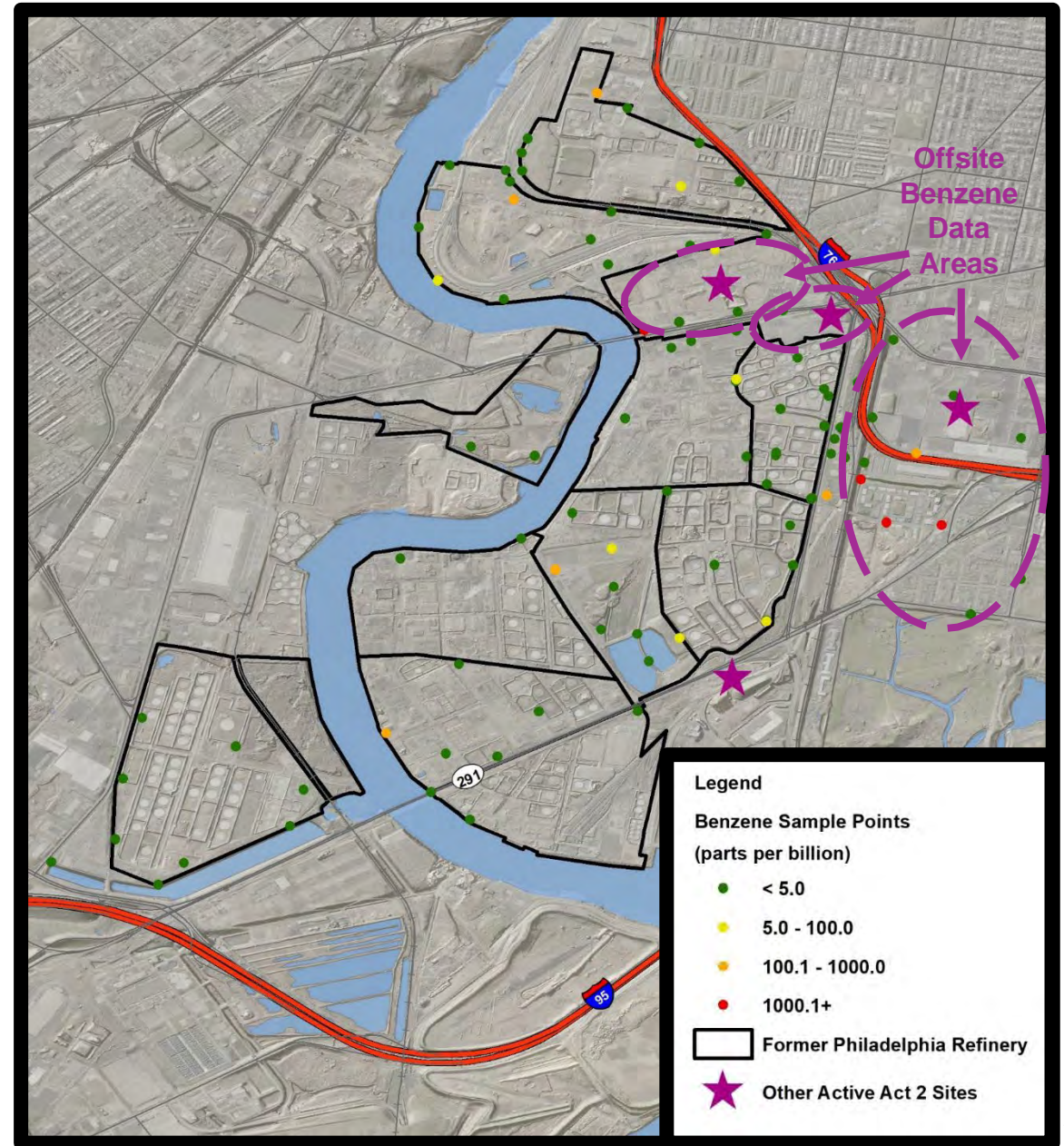


# Groundwater Investigation Results | Benzene

## Lower Aquifer

- Includes 99 well samples (dots)
- Includes data from other offsite Act 2 facilities
- Represents data over five years (2014 – 2019).
- Green dots indicate concentrations below the SHS
- Yellow, orange, and red dots indicate concentrations above the SHS
- Demonstrates delineation in most areas

Figures are from slides 38-39 from the presentation given during the Evergreen August 27, 2020 Public Meeting. This entire presentation is included on the Evergreen website at <https://phillyrefinerycleanup.info>





## **Attachment 7 - Table of Contents**

<b>Figure 1</b>	Surface Soil Analytical Data Summary Comparison to Direct Contact Standard, Evergreen 2021
<b>Figure 2</b>	Surface Soil Analytical Data Summary Comparison to Soil to Groundwater Standard, Evergreen 2021
<b>Figure 3</b>	Subsurface Soil Analytical Data Summary Comparison to Direct Contact Standard, Evergreen 2021
<b>Figure 4</b>	Subsurface Soil Analytical Data Summary Comparison to Soil to Groundwater Standard, Evergreen 2021





# Surface Soil Analytical Data Comparison to Direct Contact

Former Philadelphia Refinery




Philadelphia, PA

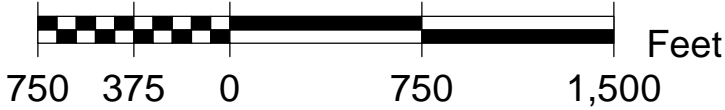
Drawn By: H. Pothier  
Designed By: A. Buchy  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August, 2021

## Notes

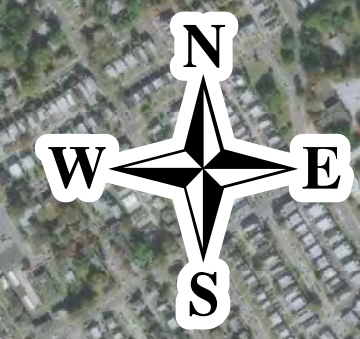
1. The data shown in this figure is based on the soil analytical data for the Evergreen Petroleum Shortlist COCs summarized in the RIRs for AOIs 1 through 10, as provided by Stantec, August 2021.

## Legend

-  Exceeds PADEP Non-Residential Statewide Health Direct Contact MSC
-  Does Not Exceed PADEP Non-Residential Statewide Health Direct Contact MSC
-  AOI Boundaries







Attachment 7 - Figure 2

# Surface Soil Analytical Data Comparison to Soil to Groundwater

Former Philadelphia Refinery

Philadelphia, PA

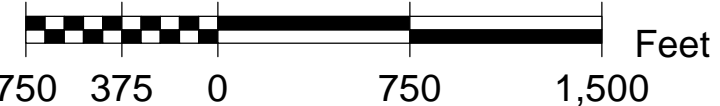
Drawn By: H. Pothier  
Designed By: A. Buchy  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August, 2021

## Notes

1. The data shown in this figure is based on the soil analytical data for the Evergreen Petroleum Shortlist COCs summarized in the RIRs for AOIs 1 through 10, as provided by Stantec, August 2021.

## Legend

- Exceeds PADEP Non-Residential Soil to Groundwater MSC
- Does Not Exceed Exceeds PADEP Non-Residential Soil to Groundwater MSC
- AOI Boundaries







# Subsurface Soil Analytical Data Comparison to Direct Contact

Former Philadelphia Refinery

Philadelphia, PA

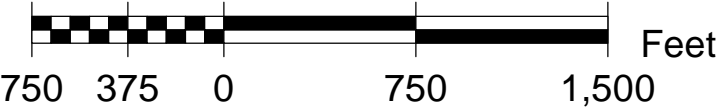
Drawn By: H. Pothier  
Designed By: A. Buchy  
Reviewed By: C. Costello  
Project No: 4796.00  
Date: August, 2021

## Notes

1. The data shown in this figure is based on the soil analytical data for the Evergreen Petroleum Shortlist COCs summarized in the RIRs for AOIs 1 through 10, as provided by Stantec, August 2021.

## Legend

- Exceeds PADEP Non-Residential Statewide Health Direct Contact MSC
- Does Not Exceed PADEP Non-Residential Statewide Health Direct Contact MSC
- AOI Boundaries





© 2021 SANBORN HEAD & ASSOCIATES, INC.  
Last Edited By: zsvoboda  
Path: P:\4700s\4796.00\Graphics Files\ArcGIS\Figures\20210215 Evergreen Cut Fill\Evergreen PIES - Sitewide Exceedance.mxd



# Subsurface Soil Analytical Data Comparison to Soil to Groundwater

Former Philadelphia Refinery

Philadelphia, PA

Drawn By: H. Pothier

Designed By: A. Buchy

Reviewed By: C. Costello




Project No: 4796.00

Date: August, 2021

## Notes

1. The data shown in this figure is based on the soil analytical data for the Evergreen Petroleum Shortlist COCs summarized in the RIRs for AOIs 1 through 10, as provided by Stantec, August 2021.

## Legend

-  Exceeds PADEP Non-Residential Soil to Groundwater MSC
-  Does Not Exceed Exceeds PADEP Non-Residential Soil to Groundwater MSC
-  AOI Boundaries

