



August 18, 2023

Sent Via Electronic Mail

Ms. Cindy Mulkey
Florida Department of Environmental Protection
Program Administrator
Siting Coordination Office (SCO)
2600 Blair Stone Road, MS 5500
Tallahassee, FL 32399-2400

Subject: Duke Energy Florida, LLC
Crystal River Energy Complex
WAFR ID FLA016960
Conditions of Certification PA 77-09U
Amendment Request-Ground Water Monitoring Plan Revision

Dear Ms. Mulkey:

Duke Energy Florida (DEF) respectfully submits to the Department this amendment request for a revision of the Ground Water Monitoring Plan (GWMP) for the Crystal River Energy Complex. The enclosed revised GWMP includes the following requests:

- Removal of Pond No. 2 and sources of wastewater from Units 1 and 2 from the description of the G-001 percolation pond system, following decommissioning of those units.
- Removal of ground water monitoring well MWC-31 from the Industrial Wastewater (IWW) monitoring well network. MWC-31 was installed to monitor ground water affected by IWW associated with the former FGD lined treatment ponds, which have been closed and removed.
- Establishment of a total recoverable arsenic upper limit for the controlling background ground water concentration of 24.6 ug/L, based on the study background study conducted.

Should you have any questions regarding this submittal, please contact Ms. Ilia Balcom at (813) 362-5123 or ilia.balcom@duke-energy.com. Please copy Ms. Balcom on all correspondence related to this submittal.

Sincerely,

A handwritten signature in black ink, appearing to read "DMcAgly", written over a horizontal line.

David McAgly
Station Manager
Crystal River North Plant & Fuel Operations

Enclosure

Cc: Todd Kafka, P.G., Geosyntec



engineers | scientists | innovators

GROUNDWATER MONITORING PLAN

Crystal River Energy Complex

15760 West Power Line Street

Crystal River, Florida 34428

Prepared for

Duke Energy Florida, LLC

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St. Petersburg, Florida 33701

Prepared by

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Project FR2858I

11 August 2023

CERTIFICATE OF AUTHORIZATION
GROUNDWATER MONITORING PLAN

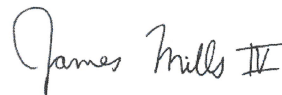
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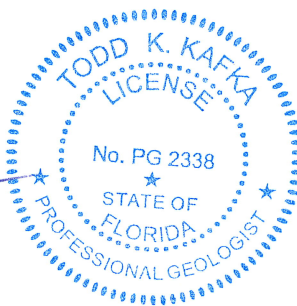


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1. INTRODUCTION

1.1 Terms of Reference

This document represents the Duke Energy Florida, LLC, (DEF) Groundwater Monitoring Plan (GWMP) for the Crystal River Energy Complex (CREC) (herein, the “Site”) in accordance with Chapter 62-520.600(3), Florida Administrative Code (F.A.C.) and Conditions of Certification (CoC) PA 77-09, Attachment H, Part I, Section I. DEF has prepared this revised GWMP to document a Site-specific arsenic concentration based on a water quality background study, modify the compliance monitoring well network (removal of MWC-31), and remove Pond #2 from Units 1 and 2 percolation pond system as a revision to CoC, Attachment H. This GWMP has been prepared to document compliance with applicable groundwater quality standards at the Site.

1.2 Site Description

The Site is adjacent to the western boundary of DEF’s existing Citrus Combined Cycle Plant (CCCP) located at 15760 West Power Line Street on the Gulf of Mexico in Crystal River, (Citrus County) FL (**Figure 1**) and consists of approximately 4,738 acres. The Site is located in Sections 28 through 36, Township 18, and Range 16 east, near latitude 28° 57’ 27” N and longitude 82° 42’ 36” W. CREC is a 1,437 MW (nominal) facility which is comprised of two coal-fired steam units (Units 4 and 5) and various ancillary equipment. CREC also accommodates one retired nuclear unit (Unit 3) and two retired coal-fired units (Units 1 and 2).

1.3 Document Organization

The remainder of the GWMP is organized as follows:

- **Section 2** – describes the Site setting and process review;
- **Section 3** – describes the regional geology, hydrogeology, and the Site physical setting;
- **Section 4** – provides the rationale of the proposed Site groundwater monitoring locations and wells;
- **Section 5** – describes the field and analytical procedures that will be utilized during routine groundwater sampling; and
- **Section 6** – provides the report summary.

2. SITE SETTING

2.1 Site Process Review

Construction activities for the CREC began in 1964, and commercial operation began in 1966 for Unit 1 (retired), 1969 for Unit 2 (retired), 1977 for Unit 3 (retired), 1982 for Unit 4, and 1984 for Unit 5. A generalized layout of CREC operations is depicted on **Figure 2**. CREC's power generation is derived from the two coal-fired steam units (Units 4 and 5). In the early 1970s, Units 1 and 2 converted from coal-fired to oil-fired operations and reverted to coal operations in 1976 and 1979, respectively, before ultimately being retired and replaced by the CCCP. Units 4 and 5 each consist of fossil fuel-fired, electric utility, steam generators with steam turbine each consisting of a pulverized coal, dry bottom, wall-fired boiler rated at 760 MW. Air pollution control equipment includes: low-nitrogen oxide/dioxide burners; selective catalytic reduction systems; flue gas desulfurization (FGD) systems; and electrostatic precipitators manufactured by Combustion Engineering. Units 4 and 5 share a common 550-foot chimney with separate internal stack liners with continuous emissions monitoring systems on each stack liner. The flue gases exhaust at 130 degrees Fahrenheit (°F) with a volumetric flow rate of 2,205,195 cubic feet per minute through the individual stack liners, which are 30.5 feet in diameter. The condenser cooling system is a closed-loop, recirculating system consisting of a natural draft cooling tower system for each coal-fired steam unit and utilizing a common recirculating water system for both units. Cooling tower makeup water consists of seawater withdrawn from the Units 4 and 5 intake structure located at the CREC discharge canal and from the reuse of the cooling tower blowdown from the CCCP, which minimizes the use of groundwater for cooling water. Cooling tower blowdown is discharged through the CREC discharge canal for dispersion back into the Gulf of Mexico. A combination of recycled water from dewatered pre-treatment system sludges, contact water, and groundwater are utilized for make-up water in the hydraulic ash and rejects handling system. Potable freshwater needs for the Site include demineralized water for steam cycle makeup, plant service water, wash water, fire protection water, and potable water. Freshwater is provided through the current groundwater withdrawals using the existing Southwest Florida Water Management District (SWFWMD) water use permit (WUP) for the CREC.

Industrial wastewater (IWW) discharges include low-volume waste streams as defined in 40 CFR Part 423. These discharges include, but are not limited to, flows from plant service water systems and floor drains, blowdown from the heat recovery steam generators (HRSGs), raw water treatment filter backwash, neutralized condensate polisher regeneration wastes, and other residual waters from the demineralized water treatment systems. Neutralized wastes are discharged into a percolation pond system (G-001), located at the southwest corner of the CREC property and south of the discharge canal. The percolation pond system consists of four ponds (Ponds #1 through #4). Pond #1 and Pond #2 are decommissioned and no longer receive wastewater. Pond #3, located at the east side of the percolation system, overflows west into Pond #4 (7.16 acres) for percolation. Pond #4 has the capability to store wastewater as well as direct rainfall resulting from a 25-year, 24-hour storm in the 13.6-acre pond catchment area. The sources of wastewater for Pond #3 and Pond #4 include treated blowdown from the Units 4 and 5 FGD system and wastewater from Pond #5 on an as needed basis to maintain the freeboard requirement for Pond #5. The G-001 pond system has a monthly average flow limit of 0.91 million gallons per day (MGD) monthly average daily flow (MADF).

Neutralized wastewater generated from Units 4 and 5 are discharged into a percolation pond [Pond #5, G-002], located on the western portion of the CREC property and north of the discharge canal. The sources of wastewater into Pond #5 include Units 4 and 5 low volume wastes (demineralizer regeneration, cooling tower basin cleaning wastes, floor drainage, sample drains and similar wastes), metal cleaning wastes (including preheater and fireside wash), boiler blowdown and overflows or maintenance flows from the bottom ash dewatering system.

Runoff collected at the stormwater ditches surrounding the Ash Storage/Disposal Area (AS/DA) coal combustion residuals (CCR) landfill is designed to overflow as an internal outfall to Units 4 and 5 stormwater collection system via a permitted overflow structure and weir (outfall I-C40). Samples are collected at I-C40 pursuant to permit #FL0036366 for each qualifying discharge event. Throughout its operational history, ash generated from coal-fired operations has typically been sent directly off-Site for beneficial use, stored on-Site awaiting beneficial use, or disposed on-Site in the permitted AS/DA. Other facilities located on CREC premises include railroad, access roads, parking lots, conveyors, administrations buildings, and a maintenance building.

3. HYDROGEOLOGIC AND PHYSICAL SETTING

3.1 Regional Setting

3.1.1 Physiography

CREC lies within the Coastal Swamps physiographic region and near the boundary of the Gulf Coastal Lowland physiographic region (Knochenmus and Yobi, 2001) and consists of mostly of marine terraces and coastal swamps with paleokarst features overlain by discontinuous clastic sediments. Ground surface elevations in the lowlands range from sea level to 100 feet above sea level (Golder, 2010).

3.1.2 Regional Geology

Generalized surficial stratigraphy (upper 500 feet) observed in Citrus County in descending order is as follows:

- *Undifferentiated Pleistocene and Holocene Deposits:* During the Pleistocene transgression series, low-lying portions of the modern Florida peninsula were submerged as much as 60 feet above current day mean sea level. The undifferentiated surficial deposits are characterized by a sequence of alternating sands and shell, sandy clays, and clayey sands that are discontinuous and of variable thickness across Citrus County. Generally, these sediments are medium to fine grained quartz sands, silts, and localized organic materials from swamps and other surface depressions (Spencer, 1984).
- *Ocala Group Limestone:* Underlying the undifferentiated deposits are the Inglis, Williston, and Crystal River Formations of the Ocala Group Limestone. These late Eocene limestones range in thickness up to 200 feet and are typically characterized by chalky weathered chalky marine limestone in the upper sequence that is massive and white to cream in color. The lower portions of the Ocala Group typically are characterized by soft, porous crystalline limestone that can be granular to massive and tan to buff in color (Randazzo and Jones, 1997). On occasion, some minor amounts dolostone can be observed in the Ocala Group.
- *Avon Park Limestone:* Formed in the middle Eocene, the Avon Park Formation limestone is comprised of occasionally fossiliferous poorly indurated to well indurated carbonate deposits that are cream to tan in color. These limestones are typically interbedded crystalline, fossiliferous, vuggy, indurated tan to brown dolostones. Molds and casts of gypsum crystals occur locally (Miller, 1986).

3.1.3 Regional Hydrogeology

The general hydrogeologic units that form the hydrogeologic framework in the region include the discontinuous, siliciclastic Surficial Aquifer System (SAS), and the limestone and dolostone of the Upper Floridan Aquifer (UFA) system. Sediments within the SAS are characterized as undifferentiated with a discontinuous veneer of sands, clayey sands, and shell. Thicknesses vary considerably due to the irregular surface of the underlying limestone (Spencer, 1984). Some of the SAS sediments are residual and reworked Hawthorn Formation derived from the fluctuation

of sea level (Faulkner, 1973). In the vicinity of CREC, the UFA is comprised of (in descending order) the Suwannee Limestone, the Ocala Group Limestone (including the Crystal River, Williston, and Inglis Formations), and the Avon Park Limestone (Spencer, 1984). A generalized regional geologic profile is provided as **Figure 3**. The predominant regional groundwater flow is from east to west toward the Gulf of Mexico with variability attributable to the topography and lithology.

Regional groundwater quality data indicates that historic withdrawal of groundwater within the UFA has resulted in saltwater intrusion along much of Florida's Gulf Coast (Guvanasen, 2000). Prior data from two United States Geological Survey (USGS) wells located at the CREC indicated that the upper transmissive zone (well screened from 42-47 feet [ft] below land surface [BLS]) of the Inglis Formation has a higher concentration of chlorides (200 to 1,800 milligrams per liter [mg/L]) than the lower transmissive zone with a well screened from 51.8-88 ft BLS (approximately less than 20 mg/L) (ESE, 1984). Additionally, the total dissolved solids (TDS) concentrations ranged from 768 to 4,736 mg/L in the upper transmissive zone and from 230 to 333 mg/L in the lower transmissive zone; iron ranged from 0.06 to 30.7 mg/L in the upper transmissive zone and from less than 0.2 to 11.2 mg/L in the lower transmissive zone; and manganese ranged from 0.003 to 0.201 mg/L in the upper transmissive zone and from less than 0.002 to 0.306 mg/L in the lower transmissive zone.

Elevated arsenic levels have been reported in northwest Citrus County Florida (Hunter, 2011; Florida Department of Health, 2021; Laughlin, 2011). It is important to note that the area investigated includes those areas with private drinking water wells. As the Site does not include private drinking water wells, the investigation of elevated arsenic concentrations did not proceed onto the Site. However, the arsenic impacted groundwater flows under the Site and toward the Gulf of Mexico. Arsenic can be naturally occurring in the UFA or associated with historical cattle dip vats and/or the historical use of arsenical pesticides. In addition, arsenic concentrations can fluctuate according to aquifer geochemistry.

3.2 Site Setting

3.2.1 Site Topography

Ground surface elevations at the CREC range from roughly 0 to 50 ft MSL based on the USGS topographic map in **Figure 4**.

Surface and storm water drainage at the CREC is affected by the presence of engineered features including retention areas (stormwater ditches, canals, and settling ponds), the AS/DA, and coal piles. Elevations of these features vary across CREC and in turn influence the direction of stormwater drainage.

3.2.2 Site Geology and Hydrogeology

The Site geology and hydrogeology is consistent with that of the coastal swamps with low marine terraces inland which have formed on a paleokarst peneplain. The Crystal River Shelf Embayment (coastal swamp area) exhibits a sediment (sand) starved, low wave energy environment resulting in little to no sediment accumulation. The karst limestone surface in the vicinity of the percolation and ash ponds was originally bare to thinly covered with swamp related muck soils, sand, and clayey sand in depressions (pockets) prior to the original site

development in the late 1960s. Solution of the limestone is still occurring within both small scale and large-scale features. A highly irregular array of small scale (centimeters to meters) pits, depressions, borings, etchings, and pinnacles are being altered by the acid marsh waters and root penetration. Small sinkholes or dolines are associated with the small-scale karst actions. The larger scale karst features (tens to 100s of meters) result from aggressive (undersaturated) groundwater being concentrated in rectilinear fractures, creating long linear depressions at the surface and underground channels and caverns.

The geologic units that form the hydrogeologic framework in the region include the discontinuous, siliciclastic Surficial Aquifer System (SAS), and the limestone and dolostone of the Upper Floridan Aquifer (UFA) system.

Sediments within the SAS are characterized as undifferentiated with a discontinuous veneer of sands, clayey sands, and shell. Thicknesses vary considerably due to the irregular surface of the underlying limestone. In the vicinity of the CREC, the UFA is comprised of (in descending order) the Suwannee Limestone, the Ocala Group Limestone (including the Crystal River, Williston, and Inglis Formations), and the Avon Park Limestone.

Groundwater in the area occurs in the unconsolidated SAS and porous limestone of the UFA. In the vicinity of the CREC, the UFA is unconfined due to the absence of well-developed low permeability sediments between the SAS and UFA. Therefore, there is no differentiation between the SAS and the UFA at the CREC. The predominant regional groundwater flow is from east to west toward the Gulf of Mexico with variability attributable to the topography and lithology.

Soil borings completed at the CREC indicate three geologic and hydrogeologic units are present. These units, in order of increasing depth below land surface, are summarized below.

- *Undifferentiated Surficial Deposits (USDs)* - The USDs are comprised of a brown sandy clay with muck and occasional fill ranging in thickness from 0 to 20 feet below land surface (ft BLS) (ESE, 1981 and Florida Testing Laboratories, 1972). The thickness of the USDs is variable because of the irregular surface of the underlying limestone. Due to the limited extent of the USDs, the SAS is only locally present at the CREC, where saturated unconsolidated sediments are present.
- *Inglis Formation of the Ocala Group* - Encountered between land surface and 20 ft BLS, this white, fossiliferous, and friable limestone is the uppermost hydrogeologic unit of the UFA. The Inglis Formation is cavernous with solution channels and cavities. Permeable zones within the Inglis Formation are present at depths of less than 30 ft BLS and between 40 and 60 ft BLS (the base of the Inglis Formation). The upper permeable zone was identified as the more transmissive zone at the CREC (ESE, 1984). Water levels in monitoring wells with documented void spaces and solution cavities had a subdued response to external stresses, such as rain events and tidal fluctuations, indicating an increased permeability (ESE, 1981).
- *Avon Park Formation* - Encountered between 45 and 70 ft BLS, the Avon Park Formation is comprised of an occasionally dolomitized limestone and well indurated limestone (ESE, 1981 and Spencer, 1984). The Avon Park Formation was noted by

an abrupt increase in hardness and numerous small voids (ESE, 1981). The Avon Park Formation is the formation utilized for water supply of CREC operations.

Monitoring wells associated with industrial wastewater (IWW) and solid waste (SW) permits have been installed at CREC. Monitoring wells currently installed at the CREC are depicted in **Figure 5**. The UFA and the SAS (where present) have similar groundwater flow patterns with groundwater predominantly flowing from northeast to southwest at the CREC towards open water. Flow directions may vary due to the complex subsurface character of the UFA caused by solution cavities, tidal fluctuations, and surface water features (e.g., intake and discharge canals and stormwater ponds). A representative set of synoptic sitewide groundwater contours from a tidal study completed 2012 is shown for reference in **Appendix A**.

3.2.3 Potable Well Survey

A survey of permitted potable groundwater use wells was conducted using the SWFWMD Well Construction Permit (WCP)/Water Use Permit (WUP) and Florida Department of Health (FDOH) databases. The results of the well survey indicate no permitted potable wells within 500 ft of the Site.

4. GROUNDWATER MONITORING LOCATION RATIONALE

4.1 Program Objectives

The existing Groundwater Monitoring, Operations and Maintenance Requirements (GWMOMR) for CREC (WAFR ID No. FLA016960) were developed in conjunction with the Florida Department of Environmental Protection (FDEP) Southwest District's IWW and Solid Waste (SW) Sections in order to monitor groundwater potentially affected by Units 4 and 5 IWW percolation pond, Units 1 and 2 percolation pond system, Units 4 and 5 coal storage area, AS/DA, the FGD blowdown treatment system, and south coal storage area. Pursuant to 62-520-500, F.A.C., DEF has prepared this revised GWMP to detail pond system and monitoring well network augmentation to apply for a new modified Water Quality Criteria for arsenic in groundwater. The augmentations and exemption request are further detailed below:

- Removal of Pond #2 from former Units 1 and 2 percolation pond system (decommissioned and no longer utilized for wastewater storage/treatment); and
- Removal of MWC-31 from monitoring well network: MWC-31 was installed to monitor groundwater affected by IWW associated with the former lined FGD treatment ponds. The lined FGD treatment ponds were closed in 2019 pursuant to criteria included in Consent Order, OGC File No. 09-3463 and in accordance with 40 CFR 257.102(c); and
- Modified arsenic water quality criteria: Utilization of a modified background concentration for arsenic in groundwater based on DEF's 2022 regional background study demonstrating elevated arsenic background concentrations in groundwater in the region of CREC.

This GWMP revision is designed to address these additional requirements.

4.2 Groundwater Monitoring Program Modifications

Groundwater monitoring at CREC will be completed as outlined in Attachment H (GWMOMR) of the CoC for CREC with the exception of the removal of MWC-31 from the monitoring well network and the utilization of a modified water quality standard for arsenic in groundwater. Previous evaluation of chemical data showed a wide variability of arsenic concentrations in groundwater have been observed at CREC. Elevated background arsenic concentrations that exceed Florida Groundwater Cleanup Target Level (GCTL) of 10 micrograms per liter ($\mu\text{g/L}$) have been documented in Citrus County (Laughlin, 2011). As demonstrated in the 2022 regional background study conducted by DEF, CREC's variability in arsenic concentrations are likely a result of a naturally occurring regional background source. The study was included as part of the GWMP for the CCCP immediately adjacent to the east of CREC and resulted in FDEP's approval of a modified arsenic background/compliance concentration of 24.6 $\mu\text{g/L}$ for groundwater (WAFR ID No. FLA964891).

4.2.1 Background Study/Data Evaluation

Arsenic water quality data from public and private water supply wells completed in the UFA were collected from the following sources:

- Florida Department and Environmental Protection (FDEP) Public Water Supply (PWS) database (Citrus County data); and
- Florida Department of Health (FDOH) Well Surveillance Program (WSP) database (Citrus County data).

Wells with available water quality data and ranges of concentrations for arsenic are shown on Figure 6.

Compiled background data from groundwater wells at the Site and at nearby wells was filtered based on the following criteria:

- Wells located upgradient or side gradient to the Site; and
- Wells screen interval are comparable to onsite wells – screened in the same aquifer.

Prior to determining background concentrations, regional data were evaluated to determine a spatial extent that appeared to belong to a single background population. Additional data that were included in background concentration data sets included data from the onsite CCCP background well (MWB-1) for arsenic, iron, manganese, and TDS; data from CREC production wells for arsenic and TDS; and data from background wells for the neighboring CREC site (MWB-30, MWB-30R, and CCRBW-2) for arsenic. In some cases, regional data was further filtered to include only the regional wells with well construction information. Only 17% of the wells included in the FDEP PWS and FDOH WSP databases had well construction data associated with the wells. Of the wells with construction information, 53% (a total of 6 wells) were constructed within 100 ft of land surface and data from these six wells were used as well depth-filtered regional arsenic data in the background evaluation. However, for comparison, a review of the SWFWMD WCP database of potable wells within five miles of the Site, 90% of the wells had construction information and 74% of those wells were constructed within 100 ft of land surface. The data sets used in determining background concentrations for each parameter are described in section 4.3.2 and **Appendix B**. Background data sets were evaluated for temporal trends at each location, where a sufficient data set was available.

The approach for determining an appropriate background concentration was based on the methods presented in the Unified Guidance (EPA, 2009) and Guidance for Comparing Background and Site Chemical Concentrations in Groundwater (FDEP, 2013). These guidance documents suggest that two methods can be used to define the upper end of the range of background concentrations. The method ultimately chosen was based on available data and characteristics of that data.

The first method is the Simple Method (FDEP, 2013). In this method statistical tests are not required, and background is determined using the lower of the maximum concentration in background wells or two times the mean concentration in background wells.

An alternate procedure to determine background concentrations is the Statistical Method (EPA, 2009) whereby the upper tolerance limits (UTLs) of the data set are calculated. The UTL constructed on background data is designed to cover all but a small percentage of the background population measurements. The UTL is a confidence limit constructed on an upper percentile of the background data set, for example, 95th percentile, also known as coverage. The coverage defines the proportion of background population that the limit is supposed to contain, typically 95% or 99%. Confidence level defines the confidence level with which the limit contains that proportion of the background, typically 95%. For example, a UTL with 95% confidence and 99% coverage is denoted as 95-99 UTL and would contain 99% of the background population with 95% confidence. UTLs were derived using parametric or nonparametric methods depending on the underlying distribution determined for each data set. A stand-alone summary of the statistical analysis is provided in **Appendix B**.

4.2.2 Background Study Results for Arsenic

After filtering for the criteria discussed above, arsenic had the greatest amount of useable regional data. Review of **Figure 6** shows a large number of wells with concentrations that exceed the FDEP GCTL of 10 µg/L east of the Site. For the purposes of this evaluation, only data from within a 5-mile radius of the Site was included as this data appeared to be from the same statistical population and contained within Citrus County. Additionally, only regional wells with at least four data points were included in the data set¹. One data set evaluated for arsenic included only regional data from wells with at least four measurements available. Another data set used data from the six regional wells known to be constructed within 100 ft of the land surface and arsenic data from MWB-1, the CREC production wells, and background wells from the neighboring CREC site (MWB-30, MWB-30R and CCRBW-2). These two arsenic data sets are provided in **Appendix B** and a map summarizing the wells utilized is provided in **Figure 7**.

The final evaluation of 1,472 samples from 174 wells without well depth-filtering provided a background concentration for the area of 72 µg/L based on the 95-99 UTL. This 99-95 UTL was a nonparametric UTL as the data did not follow a discernable distribution. The background concentration from the data set of wells constructed within 100 ft of the land surface and on-site production wells and background wells was 24.6 µg/L based on a 95-95 UTL. The 95-95 UTL method for the well depth-filtered data was used as it contains 95% of the background population with 95% confidence. A summary of the statistical evaluation is shown in **Table 1**.

4.2.3 Pond #2 Removal Rationale

Pond #1 and Pond #2 of the percolation pond system (G-001) have been decommissioned and no longer receive wastewater. All inflow and outflow piping for Pond #1 and Pond #2 have been removed or cut and capped. Pond #1 and Pond #2 are undergoing pre-closure activities include removal of the northern and eastern berm structures. The southern and western berms are shared structurally by the active Pond #3 and #4 and will be left in place. Soil from the northern and eastern berms will be graded to the north from the southern berm (also considered the north berm

¹ It should be noted that these data sets included those with increasing and decreasing trends. Inspection of the time series indicated that concentrations did not increase or decrease by orders of magnitude.

of Pond #3 and #4) allowing stormwater to drain into existing stormwater features in the area. Pond #1 was previously removed from the language of Attachment H of the CoC. Since Pond #1 and Pond #2 will no longer be existing, DEF asks that Pond #2, including the language related to Units 1 and 2 sources of wastewater, also be removed from the language of Attachment H of the CoC.

4.2.4 MWC-31 Removal Rationale

MWC-31 was installed to monitor groundwater affected by IWW associated with the former lined FGD treatment ponds, which were located in the eastern half of the former North Ash Pond (NAP). Elevated arsenic concentrations were detected at MWC-31, which ultimately led to a Plan of Study (POS) of the former NAP to comply with Consent Order, OGC File No. 09-3463. The POS concluded that groundwater quality inside and along the perimeter for the former NAP was adversely affected by the historical storage of sluiced ash. With FDEP's approval in the Fourth Amendment to the Consent Order in November 2017, DEF conducted multi-media assessment of the former NAP to comply with Ch. 62-780 FAC, which concluded with soil remediation/capping and natural attenuation monitoring of groundwater quality. DEF is initiating closure of the former NAP under Risk Management Option III allowed by Ch. 62-780.680 FAC.

The lined FGD treatment ponds were closed in 2019 pursuant to criteria included in Consent Order, OGC File No. 09-3463 and in accordance with 40 CFR 257.102(c). In the absence of active wastewater inputs near MWC-31 and the completion of assessment and remediation of the former NAP under Ch. 62-780 FAC, DEF is requesting removal of MWC-31 from the language of Attachment H of the CoC.

4.2.3 Summary of Groundwater Monitoring Modifications

Pursuant to this background study, DEF proposes the following language be added to Attachment H of the CoC:

"The Licensee has conducted a study to determine the background, or natural background, water quality of the receiving ground water for arsenic, where "background" and "natural background" shall be as defined in Rule 62-520.200, F.A.C. Based on this study, the upper limit for the controlling background groundwater concentrations shall be 24.6 µg/L for arsenic."

Additionally, DEF proposes the following items be removed from the language of Attachment H of the CoC:

- Removal of Pond #2 and sources of wastewater from from Units 1 and 2, from the description of the G-001 percolation pond system (decommissioned and no longer utilized for wastewater storage/treatment); and
- Removal of MWC-31 from monitoring well network: MWC-31 was installed to monitor groundwater affected by IWW associated with the former FGD ponds which have been closed.

Locations of wells for monitoring groundwater at CREC are summarized in **Table 2** and depicted on **Figure 5**. All monitoring wells are located within the facility property and groundwater samples will be collected on a quarterly schedule.

5. SUMMARY

This document represents the proposed revised GWMP for CREC. The GWMP was prepared in accordance with Chapter 62-520.600, F.A.C. to ensure compliance with applicable groundwater quality standards at the Site. In addition to summaries of CREC operations and processes, associated modifications since the last GWMP, and a summary CREC geology and hydrogeology, this revision of the GWMP includes the following information.

- Rationale for adding additional language to Attachment H that the upper limit of arsenic background is 24.6 µg/L. The rationale is grounded in DEF's 2022 regional study for background arsenic concentrations in groundwater which exhibits naturally occurring elevated arsenic in groundwater in the region;
- Rationale for removing MWC-31 from the IWW monitoring well network. MWC-31 was installed to monitor groundwater affected by the former FGD ponds which were closed in 2019 pursuant to criteria included in Consent Order, OGC File No. 09-3463 and in accordance with 40 CFR 257.102(c). Since MWC-31 no longer monitors groundwater in an area where groundwater is impacted by IWW processes, DEF asks that it be removed from the language of Attachment H of the CoC; and
- Rationale for removing language from Attachment H regarding Pond #2 of the Units 1 and 2 percolation pond system. Since Ponds #1 and #2 are undergoing pre-closure activities and will no longer be existing, and Pond #1 was previously removed from the language of Attachment H of the CoC, DEF asks that Pond #2 and references to Units 1 and 2 sources of wastewater also be removed from the language of Attachment H of the CoC.

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TABLES

Table 1
Background Threshold Statistical Evaluation Summary
Crystal River Energy Complex
Crystal River, FL

Analyte	Arsenic	
		Regional under 100 ft, Production Wells, MWB-1, MWB-30, MWB-30R, and CCRBW-2
Data Set	Regional	
Number of Wells	174	25
Number of Samples	1472	169
Number of Non-Detect Samples	0	34
Units	µg/L	µg/L
Minimum	0.06	0.25
Mean ¹	14	8.54
Maximum	167	39
2 x Mean	28	17.08
Type of Distribution	Nonparametric	Nonparametric
UTL	72	24.6
Type of UTL	Nonparametric 95-99 UTL	Nonparametric 95-95 UTL

Notes:

µg/L - micrograms per liter

mg/L - milligrams per liter

TDS - total dissolved solids

UTL - upper tolerance limit

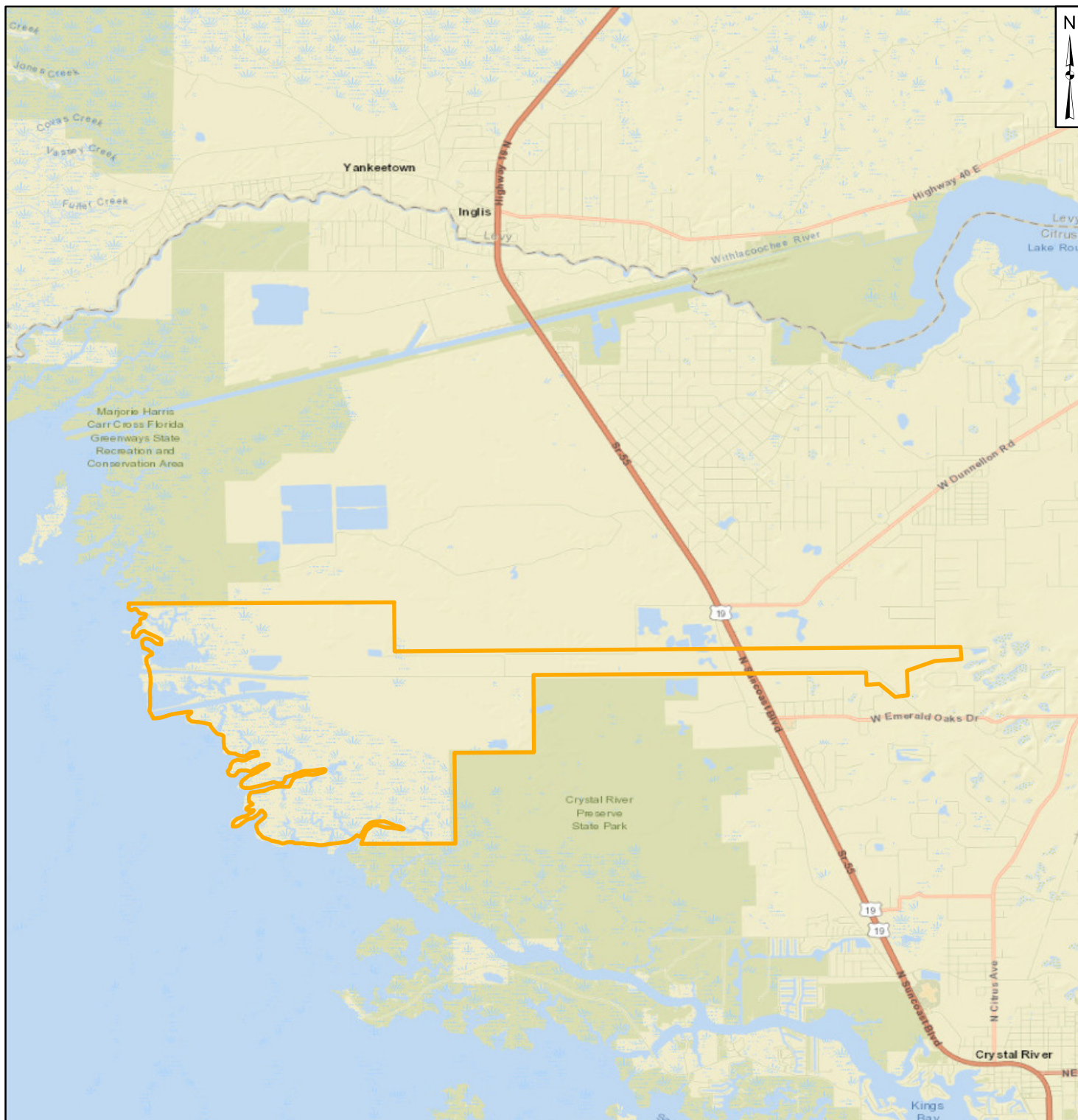
- UTLs in yellow highlight were selected as background threshold values

1. For datasets with on-site arsenic data incorporating non-detect data, the Kaplan-Meier mean is used.

Table 1
Monitoring Well Summary
Crystal River Energy Complex
Crystal River, FL

Well ID	Description of Monitoring Location	Well Depth (Feet)	Aquifer Monitored	New or Existing	Unit Monitored
MWB-1	Background Well (shared with Facility ID FLA964891)	20	Upper Floridan	Existing	IWW background well
MWB-30R	Background Well (replaced MWB-30)	20	Upper Floridan	Existing	SW well, Ash landfill background well
MWC-1R	Compliance Monitoring Well	20	Upper Floridan	Existing	IWW well Units 4 and 5
MWC-12R	Compliance Monitoring Well	20	Upper Floridan	Existing	SW well, Ash landfill
MWC-16	Compliance Monitoring Well	21.1	Upper Floridan	Existing	IWW well
MWC-21R	Compliance Monitoring Well	20	Upper Floridan	Existing	IWW well
MWC-27	Compliance Monitoring Well	33	Upper Floridan	Existing	IWW well pond Units 1 and 2
MWC-28	Compliance Monitoring Well	20	Upper Floridan	Existing	IWW well
MWC-29	Compliance Monitoring Well	20	Upper Floridan	Existing	IWW well South coal pile
MWC-IF2	Compliance Monitoring Well	14	Upper Floridan	Existing	IWW well pond Units 1 and 2
MWC-32	Compliance Monitoring Well (Northern Boundary of Property)	20	Upper Floridan	Existing	IWW well
MWC-33	Compliance Monitoring Well (Northern Boundary of Property)	20	Upper Floridan	Existing	IWW well
MWI-2R2	Intermediate Monitoring Well	20	Upper Floridan	Existing	SW well, Ash landfill
MWI-7R	Intermediate Monitoring Well (relocated)	20	Upper Floridan	Existing	IWW well
TWI-1R	Intermediate Monitoring Well	22	Upper Floridan	Existing	SW well, Ash landfill
TWI-2R	Piezometer	24	Upper Floridan	Existing	SW well, Ash landfill
TWI-3	Intermediate Monitoring Well	20	Upper Floridan	Existing	SW well, Ash landfill
TWI-4	Intermediate Monitoring Well	20	Upper Floridan	Existing	SW well, Ash landfill
TWI-5	Intermediate Monitoring Well	19.5	Upper Floridan	Existing	SW well, Ash landfill

FIGURES



Legend

 Crystal River Property Boundary



1.5 0.75 0 1.5 Miles



Regional Map

Crystal River Energy Complex
15760 W. Power Line St.
Crystal River, FL 34428

Geosyntec
consultants

Figure

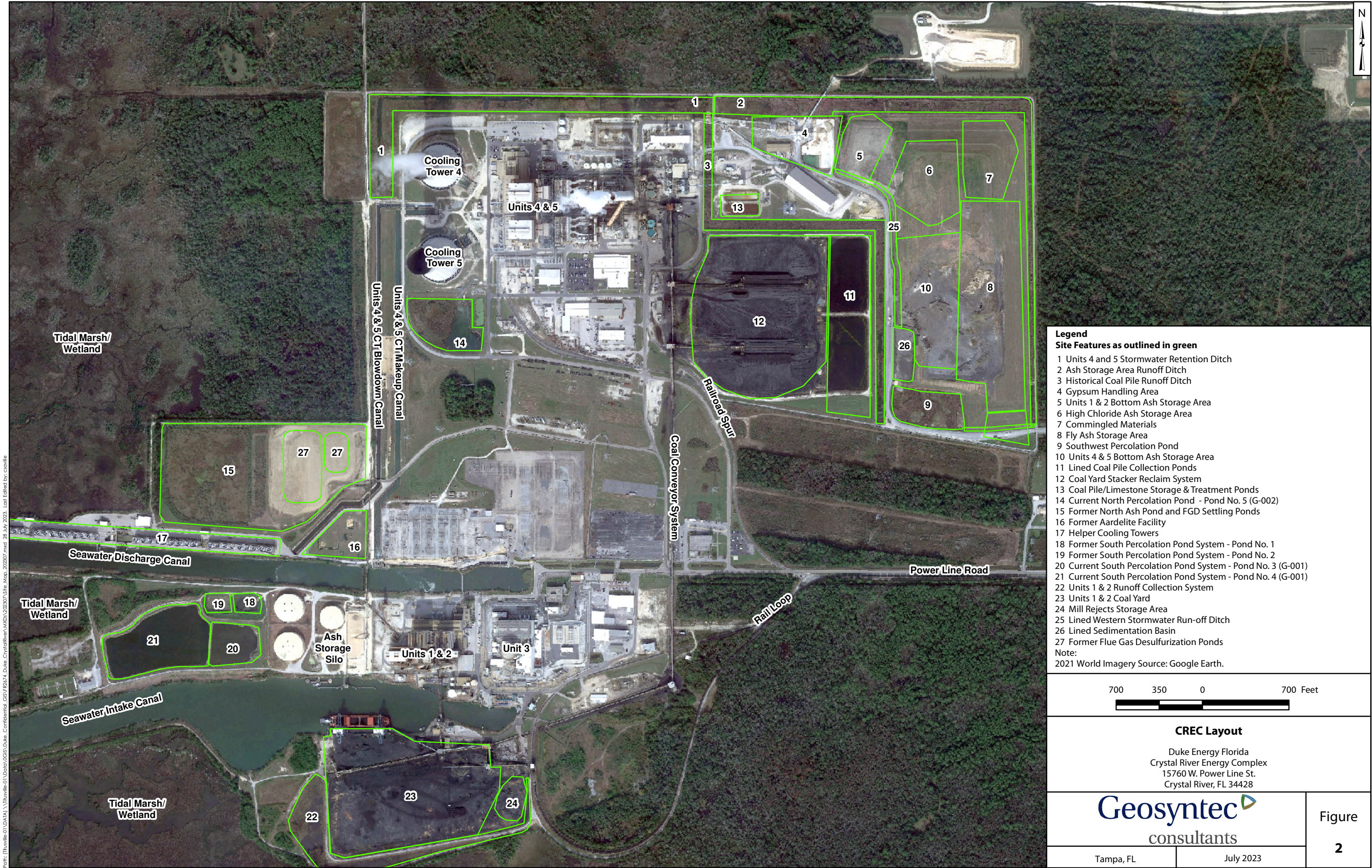
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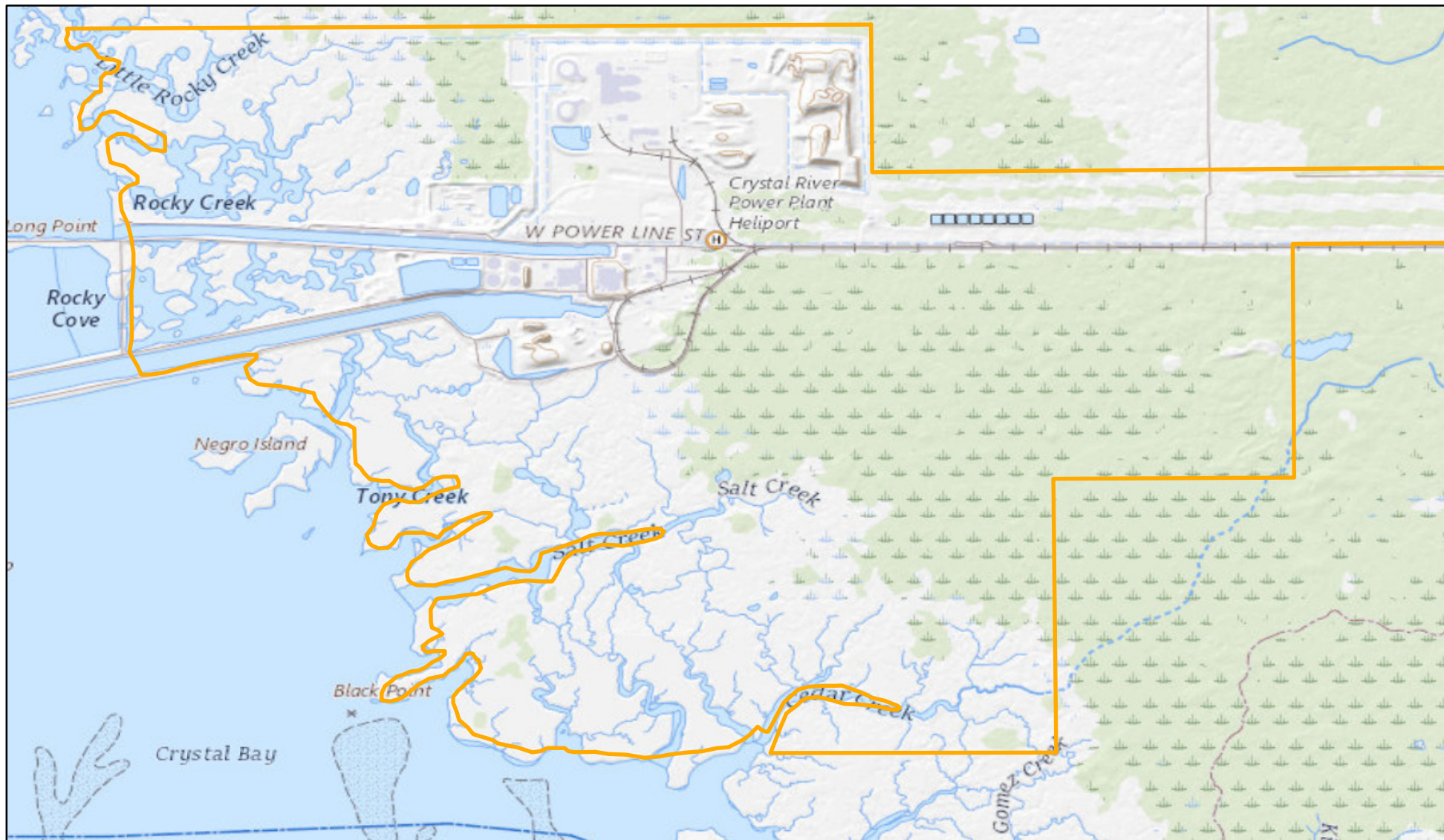
Tampa, FL

December 2022

Notes:

1. Property Boundary is approximate. Boundary obtained from the Citrus County Property Appraiser's office.
2. World Street Map Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community.





Legend

 Crystal River Property Boundary

Notes:

1. Property Boundary is approximate. Boundary obtained from the Citrus County Property Appraiser's office.
2. Topography is from the USGS National Map, Data Refreshed May, 2020.

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0 0.25 0.5
Miles

Topographic Map

Crystal River Energy Complex
15760 W. Power Line St.
Crystal River, FL 34428

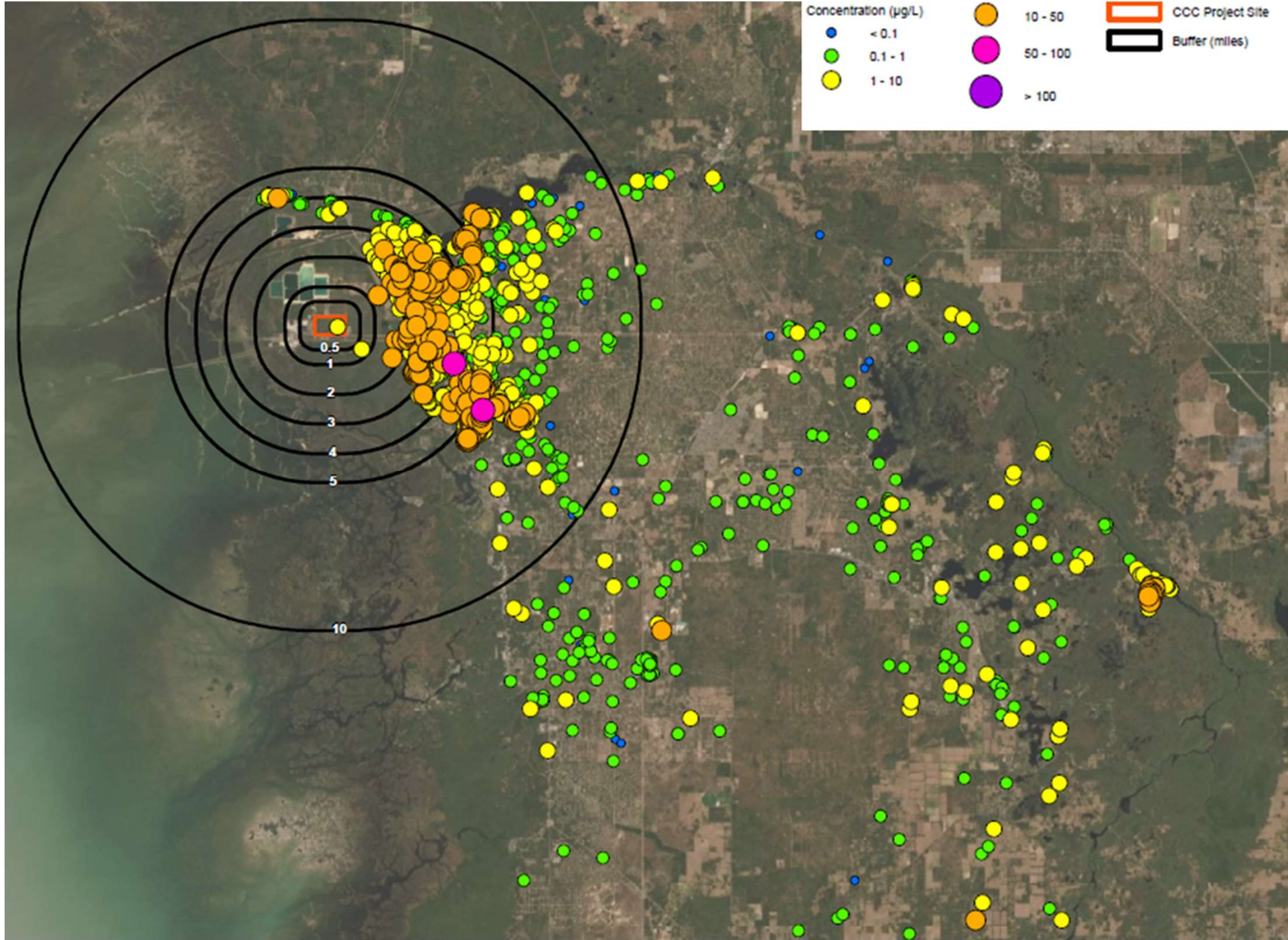
Geosyntec
consultants

Tampa, FL

July 2023

Figure

4



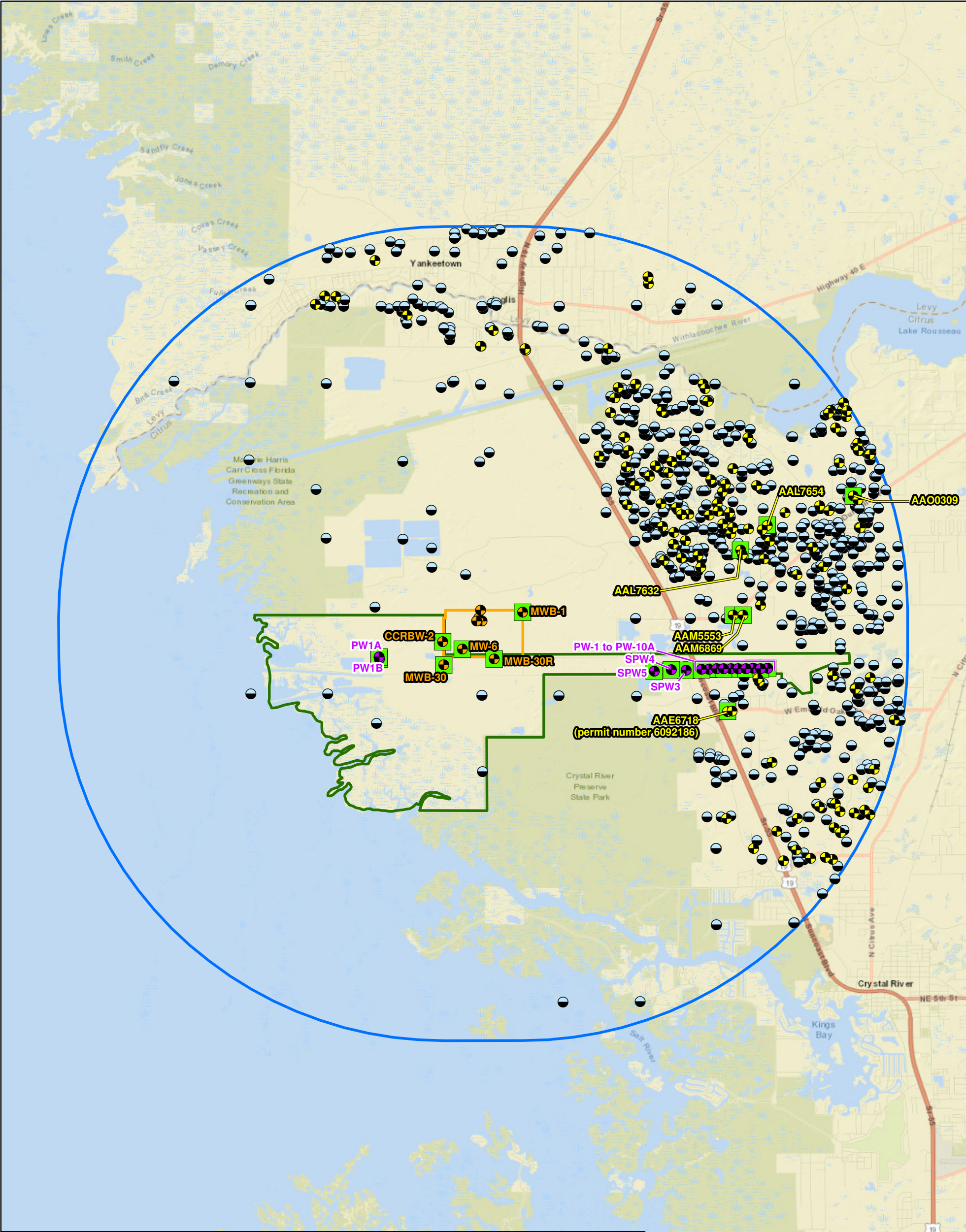
Regional Arsenic Sampling Locations

Geosyntec
consultants

Tampa, Florida

July 2022

Figure
6



Legend

Production Well Location

Site Monitoring Well Location

FDOH Well Location (select wells labeled with FLUWID)

Well Data Used for Background Determination

SWFWMD Well Construction Permit Location (well use type domestic or repair domestic)

CCC Project Site

5-mile Buffer from CCC Project Site

Property Boundary

Notes:

1. Southwest Florida Water Management District (SWFWMD) well construction permit locations were obtained from <https://swfwmd.maps.arcgis.com/home/item.html?id=6a2def08dd3741ef929b27a111a51981>; per website updated 20220923.

2. Florida Department of Health (FDOH) well locations were obtained from <https://www.floridahealth.gov/environmental-health/drinking-water/well-surveys.html>; website dated 20220824.

3. World Street Map Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community.

0

6,500

Feet

N

Wells Utilized for Arsenic Background Study

Citrus Combined Cycle Station 14385 N. Access Road
Crystal River, FL 34428

Geosyntec

consultants

Clearwater, FL

October 2022

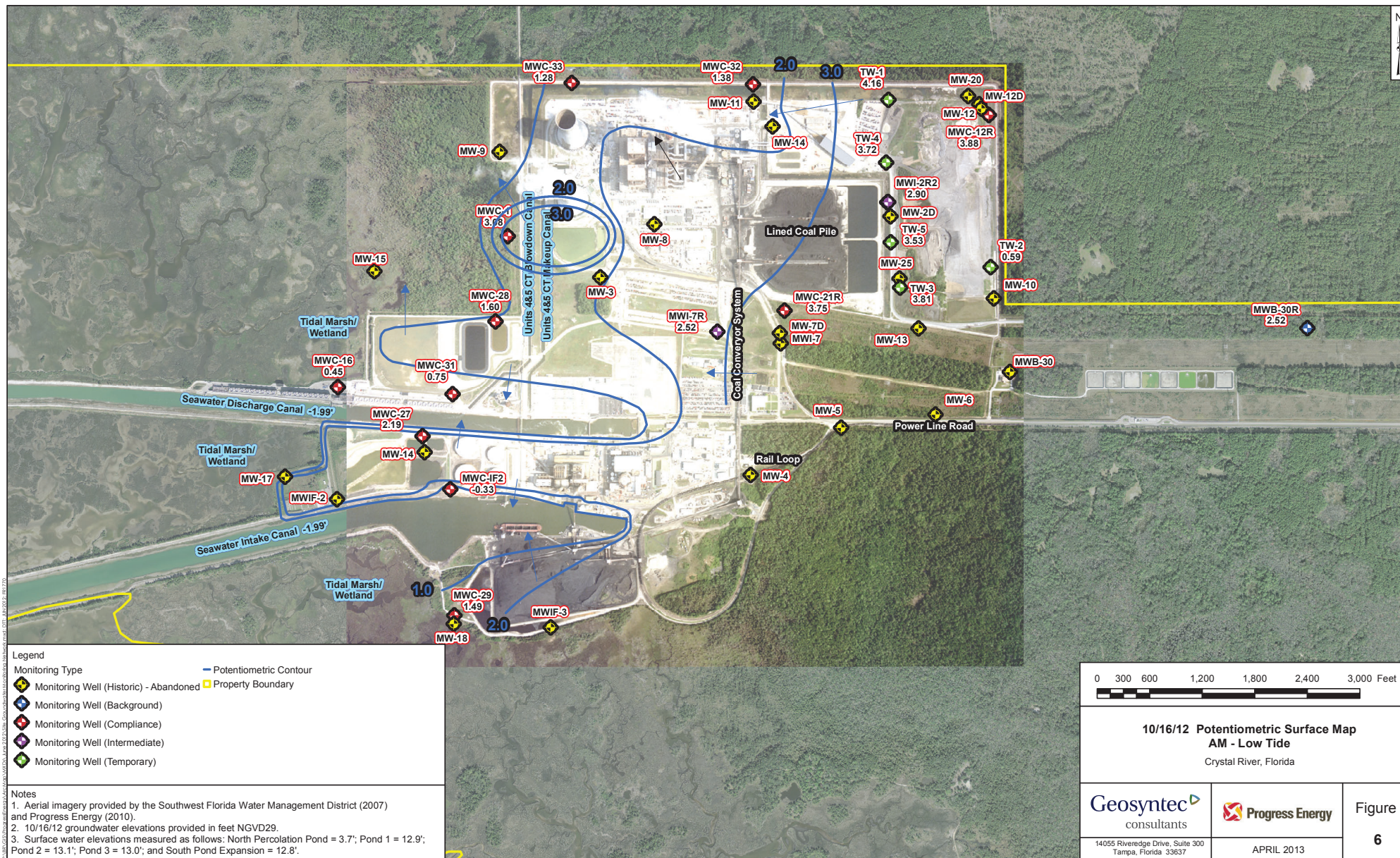
Figure

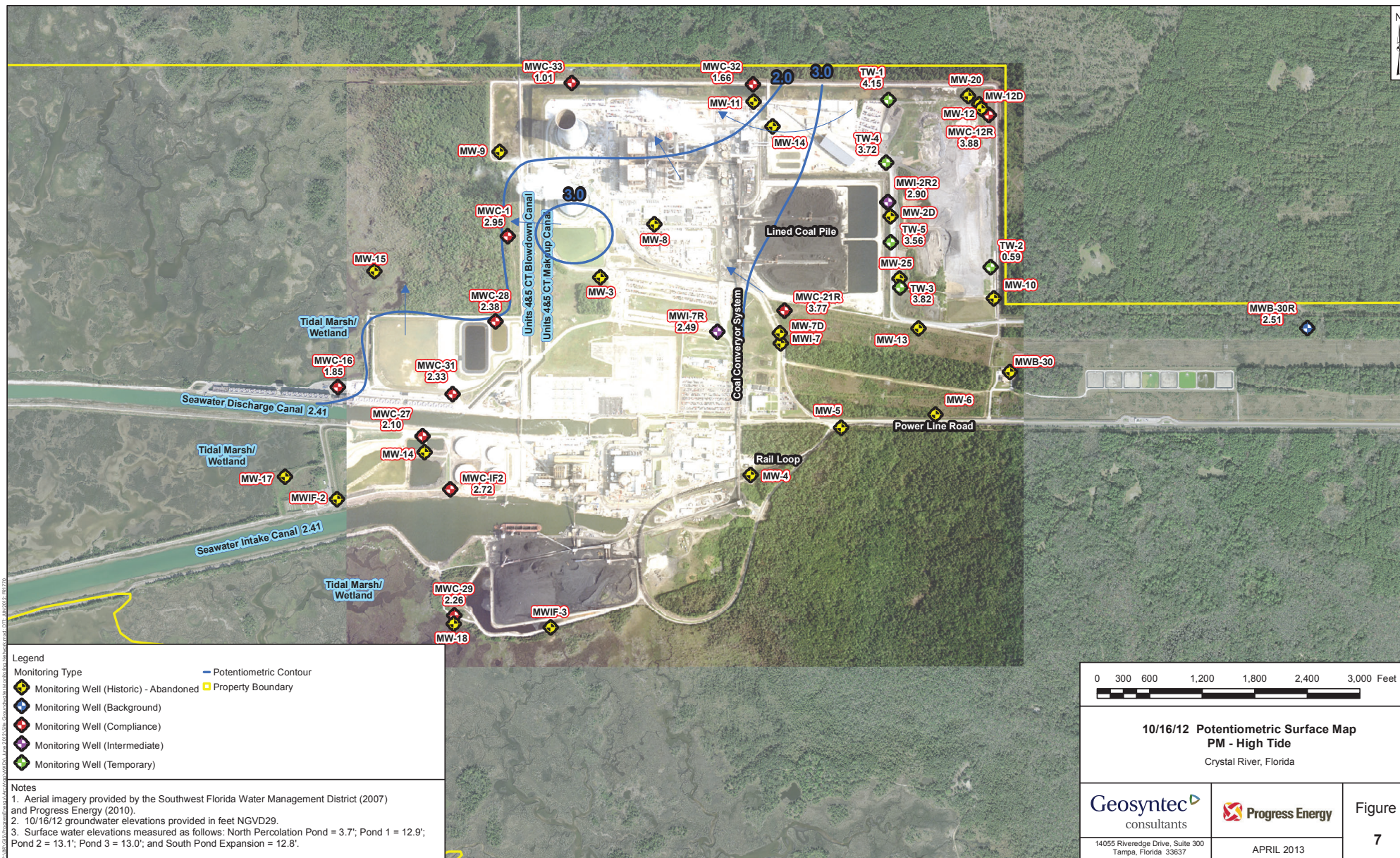
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APPENDIX A

2012 CREC Comprehensive Groundwater Contours





APPENDIX B

Statistical Analysis Summary

Appendix B

Statistical Analysis Summary

Prepared for

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Crystal River, Florida 34428

Prepared by

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Project Number FR2858I

October 26, 2022

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ACRONYMS AND ABBREVIATIONS

CCCS	Citrus Combined Cycle Station
CREC	Crystal River Energy Complex
DEF	Duke Energy Florida
FDEP	Florida Department of Environmental Protections
FDOH	Florida Department of Health
ft	feet
GCTL	Groundwater Cleanup Target Levels
µg/L	micrograms per liter
mg/L	milligrams per liter
PWS	public water supply
TDS	total dissolved solids
UTL	upper tolerance level

1. INTRODUCTION

This appendix describes the statistical evaluation of background concentrations of arsenic, iron, manganese, and total dissolved solids in the vicinity of the Citrus Combined Cycle Station (CCCS, site) adjacent to the eastern boundary of Duke Energy Florida, LLC (DEF)’s Crystal River Energy Complex (CREC) located at 14385 North Access Road, Crystal River, FL. This study was undertaken due to exceedances of Florida Groundwater Cleanup Target Levels (GCTLs) in baseline sampling prior to operation of the IWW percolation pond system for iron, manganese, and total dissolved solids (TDS). The goal of this study was to identify whether regional background of these parameters exceeds GCTLs and calculate appropriate background concentration thresholds for arsenic, iron, manganese, and TDS, if warranted.

2. BACKGROUND DATA SETS

The background data sets that were compiled from wells located upgradient or side gradient to the site and screened in the Upper Floridian Aquifer. Regional data sets were compiled for arsenic, iron, and manganese from offsite wells in Citrus County using public data sources, which were combined with site baseline sampling data in the case of iron and manganese. A site production wells data set was compiled for TDS in place of a regional dataset because regional data largely came from high volume production wells, which often had increasing temporal trends. Site background well data sets were prepared for iron, manganese, and TDS using results from background well MWB-1.

2.1 Regional Data Review and Preparation

The concentrations of arsenic, iron, and manganese were collected from water quality data for public and private water supply wells in the Upper Floridian Aquifer within Citrus County from the following sources:

- Florida Department and Environmental Protection (FDEP) Public Water Supply (PWS) database (Citrus County data); and
- Florida Department of Health (FDOH) Well Surveillance Program (WSP) database (Citrus County data).

Compiled background data from groundwater wells at the Site and at nearby wells was filtered based on the following criteria:

- Wells located upgradient or side gradient to the Site; and
- Wells screen interval are comparable to onsite wells – screened in the same aquifer.

The distance of the wells from the Site was determined using Geographical Information System (GIS) techniques and the wells were binned based on distance from the Site. For each location, average concentrations of the parameters of interest were calculated and mapped (Figures 16 to 18 in primary report).

For iron and manganese, there were limited regional data available from FDEP and FDOH, so concentrations from the Site baseline sampling event were also included in the regional datasets for iron and manganese.

Statistical analyses were conducted using ProUCL version 5.1 (U.S. Environmental Protection Agency, 2016) and R (R Core Team, 2021).

2.1.1 Spatial Evaluation and Determination of Spatial Extent for Regional Background

Lognormal quantile-quantile (q-q) plots were constructed for the regional datasets for each analyte with the points colored based on distance bins from the site (Figures F-1 to F-3). These

were examined together with the maps (Figures 16 to 18 in primary report) to determine that the collected dataset from within 5 miles of the site appeared to be part of a single background population for each of the three parameters. Therefore, locations within 5 miles of the site were included in the evaluation of background concentrations based on regional datasets. As shown in Figures 16 to 18 (in the primary report) spatial coverage of samples was generally better within 5 miles than outside 5 miles.

2.2 Production Wells Dataset

Arsenic data collected from the onsite production wells was evaluated and considered with the determination of a background arsenic concentration. Data from onsite production wells was also evaluated as an alternative source of background data for TDS because available TDS data associated with Water Use Permits (WUPs) in Citrus County were found to originate from high volume pumping wells showing evidence of increasing trends in TDS. Available arsenic and TDS data for 10 production wells in background areas as described above were collected.

2.3 Site Background Well Dataset

As an alternative to the regional and production well datasets for iron, manganese, and TDS, water quality data for these parameters from the site background well MWB-1 were considered as an alternative data source for determining an alternate background threshold value for these parameters. This dataset included seventeen sampling events at MWB-1 from November 2017 to October 2021.

2.4 Depth-Filtered Regional and On-Site Background and Production Wells Dataset

As an alternative to the regional dataset for arsenic, a dataset was compiled using data from wells in the regional dataset known to be under 100 feet (ft) deep, on-site production wells, and on-site background wells. The on-site background wells with arsenic data included were MWB-2, MWB-30, MWB-30R, and CCRBW-2. The well construction details for these wells are provided in Table F-1.

3. STATISTICAL EVALUATION

The objective of the statistical evaluation was to determine background threshold value for each dataset in the form of an upper tolerance limit (UTL). The statistical analysis was carried out in the following steps:

1. Data preparation, which included handling duplicate and non-detect results;
2. Temporal trend analysis using the Mann-Kendall test, examination of time trend plots, and selection of the final background data sets based on these tests and assessment;
3. Determining summary statistics for the data sets (e.g.: minimum, maximum, and mean values), which can be used in a simple method for determining a background threshold;
4. Testing the final data sets to determine if they appear to have a particular statistical distribution; and
5. Determining an appropriate upper tolerance limit (UTL) for each data set appropriate to the statistical data distribution.

3.1 Data Preparation

The datasets included either all results detected above the associated detection limits or, in the case of the regional public data, results of 0 without the associated detection limit. Where the datasets obtained from FDEP and FDOH included non-detect concentrations denoted by a value of zero, because the relevant detection limits were not provided, these data were excluded from further analysis. The proportion of raw data with values of 0 ranged from 4.2% for arsenic to 42% for manganese. Where duplicate values were available for a location, date, and analyte, the maximum value was used in the statistical analysis.

3.2 Temporal Trend Analysis

Tests for trend were conducted using the Mann-Kendall test at 95% significance level (procedure presented in Section 17.3.2 of EPA's Unified Guidance) for individual locations using R (R Core Team 2021) and the Kendall package (McLeod, 2011). As these tests require a minimum of four sampling events per location, these tests were conducted only for the arsenic regional dataset, the production well TDS dataset, and the MWB-1 datasets. The arsenic regional background dataset was limited to include only those locations with four or more data points, which is enough data to conduct a Mann-Kendall test for trend. The regional iron and magnesium datasets were too limited to allow for temporal trend analysis on enough of the data to move forward with the background evaluation. Therefore, the regional iron and magnesium datasets were not evaluated for temporal trends.

3.2.1 Temporal Trend Analysis Results

Results of the Mann-Kendall tests for trend are shown in Table F-8. For the regional arsenic dataset, 129 of 174 wells did not show evidence of a statistically significant trend, 39 showed decreasing trends with 90% confidence, and six showed increasing trends with 90% confidence. The time series for those wells with trends identified were examined and did not show increases or decreases of a large magnitude, so all 174 wells were included in the background threshold value determination. For the dataset with regional wells under 100 ft, production wells, and site background wells for arsenic, data were insufficient to determine perform the trend test for the site production wells, seven wells had no statistically significant trend, one regional well had a decreasing trend identified above as of low magnitude, MWB-30 had a decreasing trend that was not of a large magnitude, and WMB-30R has a high non-detect frequency and could not be tested for trend.

For the production wells TDS dataset, 6 of 10 wells did not show evidence of a statistically significant trend, while 3 showed increasing trends, and one well a decreasing trend. Visual inspection of the time series for production wells with increasing or decreasing trends did not show evidence of changes in TDS concentration of a large magnitude over time. Therefore, all 10 production wells were included in the dataset for background threshold determination for TDS.

For the dataset from MWB-1, there was not evidence of a statistically significant trend for TDS, while for iron and manganese the Mann-Kendall test indicated significant increasing trends. However, manganese concentrations have been stable at this well since the May 2019 sampling event and the iron trend appears stable (Figure C-6 to C-7 in Appendix B). Therefore, the data from MWB-1 were used in determining background threshold values for manganese and iron.

3.2.2 Final Datasets

The final datasets used for determining background threshold values are included for regional arsenic (Table F-2); regional iron (Table F-3); regional manganese (Table F-4); production well TDS (Table F-5); and MWB-1 data (Table F-6); and depth-filtered regional, production wells, and on-site background arsenic data (Table F-7).

3.3 Determination of Background Threshold Values

One method that was looked at for determining background threshold values was the Simple Method described in Guidance for Comparing Background and Site Chemical Concentrations in Groundwater (FDEP, 2013). In this method statistical tests are not required, and background is determined using the lower of the maximum concentration in background wells or two times the mean concentration in background wells. These values for each dataset are included in Table F-8.

The second method for determining background threshold values based on the Unified Guidance (EPA, 2009) is the determination of an upper tolerance limits (UTLs) for the data. The UTL constructed on background data is designed to cover all but a small percentage of the background

population measurements. The UTL is a confidence limit constructed on an upper percentile of the background dataset, for example, 95th percentile, also known as coverage. The coverage defines the proportion of background population that the limit is supposed to contain, typically 95% or 99%. Confidence level defines the confidence level with which the limit contains that proportion of the background, typically 95%. For example, a UTL with 95% confidence and 99% coverage is denoted as 95-99 UTL and would contain 99% of the background population with 95% confidence. UTLs were derived using parametric or nonparametric methods depending on the underlying distribution determined for each dataset. The determinations of statistical distributions and UTLs were performed using proUCL 5.1.

3.3.1 Determination of Statistical Distributions

To determine whether a parametric statistical method (i.e., one that assumes that the data follow a known probability distribution) or non-parametric statistical method (i.e., one that does not assume a particular distribution of the data) is selected to establish LCLs, the data was tested against one of three discernible probability distributions; normal, lognormal and Gamma. All tests were conducted at the 95% significance level. All the background datasets except the two manganese datasets did not have a discernable distribution, while the regional manganese concentrations had a Gamma distribution and the MWB-1 manganese data had a normal distribution (Table F-9).

3.3.2 Determination of UTLs

Based on the statistical distribution determinations described above, an appropriate UTL was determined for each dataset. The values of the UTLs and the type of UTL used are described in Table F-7. For the data without a discernable distribution, nonparametric 95-99 UTLs or 95-95 UTLs were determined. For manganese, 95-95 UTLs appropriate to the determined statistical distribution were determined.

4. SELECTION OF A BACKGROUND THRESHOLD VALUE

4.1 Arsenic

The nonparametric 95-95 UTL of 24.6 µg/L based on the regional background wells under 100 ft, production wells, and site background wells dataset was selected as a background threshold value.

4.2 Iron

The regional background dataset for iron was limited and did not allow for evaluation of within well temporal trends in iron concentrations, while the nonparametric 95-99 UTL based on regional data was equal to the maximum value of 14.9 mg/L. Therefore, the nonparametric 95-99 UTL based on regional data of 5.94 mg/L was selected as the background threshold value. This background threshold value would also be selected as the background threshold value for iron when using the Simple Method (FDEP, 2013).

4.3 Manganese

The manganese regional background dataset for manganese was also limited and did not enable evaluation of within well temporal trends. However, the Gamma 95-95 UTL determined with the regional manganese background data of 0.18 mg/L was similar to the normal 95-95 UTL of 0.168 mg/L determined with the MWB-1 data. This gives additional confidence in selected in normal 95-95 UTL of 0.168 mg/L as the background threshold value for manganese.

4.4 TDS

Since the production wells in some cases showed increasing trends, and could perhaps cause upconing of saline water, the nonparametric 95-99 UTL for TDS based on the MWB-1 data was selected as the background threshold value. This gives a background threshold value of 840 mg/L.

5. SUMMARY

Background concentration of arsenic, iron, manganese, and TDS were found to be elevated in the vicinity of CCCS. Therefore, alternate background threshold values were determined using UTLs. The recommended background threshold values are:

- 24.6 µg/L for arsenic based on regional data obtained from FDEP and FDOH from wells under 100 ft, production wells, and on-site background wells;
- 5.94 mg/L for iron based on concentrations in on-site background well MWB-1;
- 0.168 mg/L for manganese based on concentrations in on-site background well MWB-1; and
- 840 mg/L for TDS based on concentrations in on-site background well MWB-1

These background threshold values are necessary due to regionally elevated background concentrations of arsenic that are evident in the regional data sets obtained from FDEP and FDOH and elevated background concentrations of iron, manganese and TDS that are present in the regional datasets and Site background well MWB-1.

6. REFERENCES

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TABLES

Table F-1
Well Construction Details
Crystal River, FL

Well ID	Diameter (in)	Total Depth (ft bls)	Screen or Open Interval (ft bls)
MWB-1	2	25	15 - 25
MW-2	2	20	10 - 20
MW-3	2	20	10 - 20
MW-4	2	25	15 - 25
MW-5	2	20	10 - 20
MW-6	2	20	10 - 20
PW-1	10	200	35-200
PW-2	10	200	47-200
PW-3	10	200	60-200
PW-4	10	200	41-200
PW-5	10	200	35-200
PW-6	10	200	50-200
PW-7	10	200	50-200
PW-8	10	200	50-200
PW-9	10	200	50-200
PW-10A	10	200	50-200
PW-11	10	200	50-200
PW-12	10	200	50-200
SPW-3	10	90	36-90
SPW-4	10	125	37-125
SPW-5	10	72	NA-72
MWB-30	2	19	9-19
MWB-30R	2	20	10-20
CCRBW-2	2	20	10-20
AAE6718 6092186	6	91	72-91
AAL7632	4	80	NA-80
AAL7654	4	42	NA-42
AAM5553	3	90	NA-90
AAM6869	4	60	NA-60
AAO0309	4	81	NA-81

Notes:

in = inches

ft = feet

bls = below land surface

NA = Data not available

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
6092326	8/8/2006	2.10	DEP	-82.61978	28.946827
6092326	7/30/2009	1.90	DEP	-82.61978	28.946827
6092326	7/30/2012	1.80	DEP	-82.61978	28.946827
6092326	9/3/2015	3.10	DEP	-82.61978	28.946827
6092326	8/13/2018	2.90	DEP	-82.61978	28.946827
6094523	11/21/2006	2.30	DEP	-82.6217	28.95517
6094523	3/8/2010	3.00	DEP	-82.6217	28.95517
6094523	5/21/2012	0.40	DEP	-82.6217	28.95517
6094523	8/19/2015	3.50	DEP	-82.6217	28.95517
6095093	3/2/2018	4.80	DEP	-82.67224	28.966194
6095093	5/22/2018	1.70	DEP	-82.67224	28.966194
6095093	8/7/2018	7.60	DEP	-82.67224	28.966194
6095093	11/8/2018	2.10	DEP	-82.67224	28.966194
AAC7366 6094956	7/8/2004	5.10	DEP	-82.62975	28.960365
AAC7366 6094956	7/20/2007	6.00	DEP	-82.62975	28.960365
AAC7366 6094956	7/21/2010	4.00	DEP	-82.62975	28.960365
AAC7366 6094956	7/23/2013	2.50	DEP	-82.62975	28.960365
AAC7366 6094956	7/12/2016	1.70	DEP	-82.62975	28.960365
AAC7366 6094956	7/18/2019	2.60	DEP	-82.62975	28.960365
AAE6717	4/21/2008	167	DOH	-82.62737	28.950542
AAE6717	5/5/2008	81	DOH	-82.62737	28.950542
AAE6717	1/28/2009	95	DOH	-82.62737	28.950542
AAE6717	2/23/2009	28	DOH	-82.62737	28.950542
AAE6717	6/1/2009	32	DOH	-82.62737	28.950542
AAE6717	9/10/2009	26	DOH	-82.62737	28.950542
AAE6717	12/10/2009	31	DOH	-82.62737	28.950542
AAE6717	3/15/2010	48	DOH	-82.62737	28.950542
AAE6717	6/4/2010	32	DOH	-82.62737	28.950542
AAE6717	9/3/2010	30	DOH	-82.62737	28.950542
AAE6717	12/1/2010	27	DOH	-82.62737	28.950542
AAE6717	2/24/2011	27	DOH	-82.62737	28.950542
AAE6717	5/19/2011	31	DOH	-82.62737	28.950542
AAE6717	8/11/2011	28	DOH	-82.62737	28.950542
AAE6717	11/28/2011	60	DOH	-82.62737	28.950542
AAE6717	2/22/2012	159	DOH	-82.62737	28.950542
AAE6717	5/18/2012	28	DOH	-82.62737	28.950542
AAE6717	8/6/2012	30	DOH	-82.62737	28.950542
AAE6717	10/31/2012	61	DOH	-82.62737	28.950542
AAE6717	1/31/2013	40	DOH	-82.62737	28.950542
AAE6717	4/10/2013	36	DOH	-82.62737	28.950542
AAE6717	7/30/2013	28	DOH	-82.62737	28.950542
AAE6717	10/30/2013	31	DOH	-82.62737	28.950542

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAE6717	3/5/2014	30	DOH	-82.62737	28.950542
AAE6717	9/16/2014	47	DOH	-82.62737	28.950542
AAE6717	12/29/2014	24	DOH	-82.62737	28.950542
AAE6717	8/12/2015	28	DOH	-82.62737	28.950542
AAE6717	1/6/2016	20	DOH	-82.62737	28.950542
AAE6717	4/4/2016	20	DOH	-82.62737	28.950542
AAE6717	7/21/2016	36	DOH	-82.62737	28.950542
AAE6717	10/24/2016	17	DOH	-82.62737	28.950542
AAE6717	2/16/2017	37	DOH	-82.62737	28.950542
AAE6717	6/26/2017	43	DOH	-82.62737	28.950542
AAE6717	11/3/2017	51	DOH	-82.62737	28.950542
AAE6717	2/12/2018	20	DOH	-82.62737	28.950542
AAE6717	5/31/2018	17	DOH	-82.62737	28.950542
AAE6717	9/14/2018	19	DOH	-82.62737	28.950542
AAE6717	12/10/2018	20	DOH	-82.62737	28.950542
AAE6717	3/4/2019	22	DOH	-82.62737	28.950542
AAE6717	5/30/2019	48	DOH	-82.62737	28.950542
AAE6717	9/11/2019	39	DOH	-82.62737	28.950542
AAE6717	12/9/2019	22	DOH	-82.62737	28.950542
AAE6717	3/9/2020	64	DOH	-82.62737	28.950542
AAE6717	6/18/2020	23	DOH	-82.62737	28.950542
AAE6717	9/22/2020	20	DOH	-82.62737	28.950542
AAE6717	12/21/2020	19	DOH	-82.62737	28.950542
AAE6718 6092186	2/9/2004	18	DEP	-82.62419	28.952482
AAE6718 6092186	4/4/2007	20	DEP	-82.62419	28.952482
AAE6718 6092186	6/20/2007	16	DEP	-82.62419	28.952482
AAE6718 6092186	7/11/2007	20	DEP	-82.62419	28.952482
AAE6718 6092186	9/5/2007	11	DEP	-82.62419	28.952482
AAE6718 6092186	11/7/2007	19	DEP	-82.62419	28.952482
AAE6718 6092186	3/5/2008	15	DEP	-82.62419	28.952482
AAE6718 6092186	5/21/2008	13	DEP	-82.62419	28.952482
AAE6718 6092186	9/3/2008	18	DEP	-82.62419	28.952482
AAE6718 6092186	2/4/2009	14	DEP	-82.62419	28.952482
AAE6718 6092186	3/3/2009	14	DEP	-82.62419	28.952482
AAE6718 6092186	5/6/2009	39	DEP	-82.62419	28.952482
AAE6718 6092186	8/5/2009	17	DEP	-82.62419	28.952482
AAE6718 6092186	11/3/2009	26	DEP	-82.62419	28.952482
AAE6718 6092186	2/17/2010	2.50	DEP	-82.62419	28.952482
AAE6718 6092186	5/19/2010	3.40	DEP	-82.62419	28.952482
AAE6718 6092186	7/6/2010	3.30	DEP	-82.62419	28.952482
AAE6718 6092186	10/20/2010	3.60	DEP	-82.62419	28.952482
AAE6718 6092186	5/7/2013	1.30	DEP	-82.62419	28.952482

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAE6718 6092186	8/2/2016	1.20	DEP	-82.62419	28.952482
AAE6718 6092186	8/15/2019	1.00	DEP	-82.62419	28.952482
AAE6720	5/5/2008	16	DOH	-82.62598	28.948852
AAE6720	2/19/2013	15	DOH	-82.62598	28.948852
AAE6720	3/30/2016	3.94	DOH	-82.62598	28.948852
AAE6720	6/27/2016	17	DOH	-82.62598	28.948852
AAE6720	5/2/2019	16	DOH	-82.62598	28.948852
AAF7127	5/12/2008	7.12	DOH	-82.63164	28.9541
AAF7127	5/28/2010	6.39	DOH	-82.63164	28.9541
AAF7127	9/1/2010	9.97	DOH	-82.63164	28.9541
AAF7127	12/2/2010	4.59	DOH	-82.63164	28.9541
AAF7127	3/11/2011	7.68	DOH	-82.63164	28.9541
AAF7127	9/13/2011	1.10	DOH	-82.63164	28.9541
AAF7127	10/3/2012	11	DOH	-82.63164	28.9541
AAF7127	1/19/2016	1.25	DOH	-82.63164	28.9541
AAF7127	2/12/2018	6.89	DOH	-82.63164	28.9541
AAF7127	3/5/2020	9.16	DOH	-82.63164	28.9541
AAJ7226	1/23/2007	13	DOH	-82.63597	28.991677
AAJ7226	2/13/2007	13	DOH	-82.63597	28.991677
AAJ7226	4/26/2012	13	DOH	-82.63597	28.991677
AAJ7226	8/18/2015	13	DOH	-82.63597	28.991677
AAJ7226	8/1/2018	15	DOH	-82.63597	28.991677
AAK5204	9/28/2007	8.37	DOH	-82.6279	28.98712
AAK5204	11/1/2007	13	DOH	-82.6279	28.98712
AAK5204	3/19/2014	10	DOH	-82.6279	28.98712
AAK5204	7/22/2015	19	DOH	-82.6279	28.98712
AAK5204	8/1/2018	6.14	DOH	-82.6279	28.98712
AAK5204	10/9/2018	7.74	DOH	-82.6279	28.98712
AAK5204	2/4/2019	5.20	DOH	-82.6279	28.98712
AAK5204	5/2/2019	5.39	DOH	-82.6279	28.98712
AAK5204	7/22/2020	8.56	DOH	-82.6279	28.98712
AAK5206	9/27/2007	8.50	DOH	-82.64218	28.988157
AAK5206	11/1/2007	27	DOH	-82.64218	28.988157
AAK5206	1/25/2008	6.24	DOH	-82.64218	28.988157
AAK5206	10/20/2008	13	DOH	-82.64218	28.988157
AAK5206	12/2/2008	1.39	DOH	-82.64218	28.988157
AAK5206	5/4/2012	13	DOH	-82.64218	28.988157
AAK5206	5/26/2016	1.39	DOH	-82.64218	28.988157
AAK5206	10/5/2016	8.67	DOH	-82.64218	28.988157
AAK5206	6/27/2017	0.25	DOH	-82.64218	28.988157
AAK5206	8/15/2017	104	DOH	-82.64218	28.988157
AAK5206	3/7/2018	9.68	DOH	-82.64218	28.988157

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAK5206	8/1/2018	7.63	DOH	-82.64218	28.988157
AAK5206	10/9/2018	8.52	DOH	-82.64218	28.988157
AAK5206	5/2/2019	9.49	DOH	-82.64218	28.988157
AAK5206	12/6/2019	8.90	DOH	-82.64218	28.988157
AAK5206	5/7/2020	5.37	DOH	-82.64218	28.988157
AAK5206	7/22/2020	7.21	DOH	-82.64218	28.988157
AAK5206	10/20/2020	3.41	DOH	-82.64218	28.988157
AAK5225	8/31/2007	7.89	DOH	-82.63161	28.989904
AAK5225	6/6/2008	7.03	DOH	-82.63161	28.989904
AAK5225	7/12/2010	7.22	DOH	-82.63161	28.989904
AAK5225	7/7/2011	7.67	DOH	-82.63161	28.989904
AAK5225	4/9/2014	6.78	DOH	-82.63161	28.989904
AAK5227	8/30/2007	10	DOH	-82.63248	28.986606
AAK5227	11/1/2007	13	DOH	-82.63248	28.986606
AAK5227	7/26/2012	9.00	DOH	-82.63248	28.986606
AAK5227	9/10/2014	11	DOH	-82.63248	28.986606
AAK5227	8/12/2015	12	DOH	-82.63248	28.986606
AAK5228	8/30/2007	9.58	DOH	-82.63199	28.987301
AAK5228	11/1/2007	9.15	DOH	-82.63199	28.987301
AAK5228	1/28/2008	9.41	DOH	-82.63199	28.987301
AAK5228	6/6/2008	7.01	DOH	-82.63199	28.987301
AAK5228	7/29/2010	7.89	DOH	-82.63199	28.987301
AAK5228	2/23/2011	8.15	DOH	-82.63199	28.987301
AAK5228	6/2/2011	11	DOH	-82.63199	28.987301
AAK5228	9/10/2014	11	DOH	-82.63199	28.987301
AAK5228	8/12/2015	9.69	DOH	-82.63199	28.987301
AAK5228	9/21/2016	9.42	DOH	-82.63199	28.987301
AAK5228	6/21/2017	0.89	DOH	-82.63199	28.987301
AAK5228	9/27/2017	8.04	DOH	-82.63199	28.987301
AAK5228	2/19/2018	10	DOH	-82.63199	28.987301
AAK5228	12/20/2018	9.71	DOH	-82.63199	28.987301
AAK5228	2/22/2019	9.17	DOH	-82.63199	28.987301
AAK5228	7/19/2019	9.69	DOH	-82.63199	28.987301
AAK5228	3/5/2020	10	DOH	-82.63199	28.987301
AAK5228	7/22/2020	9.78	DOH	-82.63199	28.987301
AAK5229	8/30/2007	11	DOH	-82.63223	28.987968
AAK5229	12/28/2011	12	DOH	-82.63223	28.987968
AAK5229	7/22/2015	4.79	DOH	-82.63223	28.987968
AAK5229	2/1/2016	12	DOH	-82.63223	28.987968
AAK5229	2/19/2018	4.89	DOH	-82.63223	28.987968
AAK5229	3/5/2020	12	DOH	-82.63223	28.987968
AAK5267	7/20/2007	14	DOH	-82.63401	28.98655

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAK5267	8/14/2007	13	DOH	-82.63401	28.98655
AAK5267	7/26/2012	9.50	DOH	-82.63401	28.98655
AAK5267	9/10/2014	12	DOH	-82.63401	28.98655
AAK5267	9/27/2017	3.13	DOH	-82.63401	28.98655
AAK5267	2/19/2018	11	DOH	-82.63401	28.98655
AAK5268	7/20/2007	14	DOH	-82.63688	28.995459
AAK5268	8/14/2007	13	DOH	-82.63688	28.995459
AAK5268	1/25/2013	15	DOH	-82.63688	28.995459
AAK5268	6/30/2016	13	DOH	-82.63688	28.995459
AAK5278	6/5/2007	6.97	DOH	-82.63969	28.992702
AAK5278	10/14/2008	7.78	DOH	-82.63969	28.992702
AAK5278	5/26/2009	8.04	DOH	-82.63969	28.992702
AAK5278	8/10/2009	5.43	DOH	-82.63969	28.992702
AAK5278	8/5/2010	5.39	DOH	-82.63969	28.992702
AAK5278	7/11/2011	7.12	DOH	-82.63969	28.992702
AAK5278	8/15/2013	4.70	DOH	-82.63969	28.992702
AAK5278	9/4/2015	3.77	DOH	-82.63969	28.992702
AAK5278	8/15/2017	0.96	DOH	-82.63969	28.992702
AAK5286	4/24/2007	11	DOH	-82.63633	28.994743
AAK5286	5/4/2012	10	DOH	-82.63633	28.994743
AAK5286	5/26/2016	5.92	DOH	-82.63633	28.994743
AAK5286	9/21/2016	12	DOH	-82.63633	28.994743
AAK5286	7/9/2019	14	DOH	-82.63633	28.994743
AAK5289	4/24/2007	11	DOH	-82.63363	28.990437
AAK5289	6/5/2007	9.53	DOH	-82.63363	28.990437
AAK5289	4/26/2012	12	DOH	-82.63363	28.990437
AAK5289	5/26/2016	7.41	DOH	-82.63363	28.990437
AAK5289	9/21/2016	7.43	DOH	-82.63363	28.990437
AAK5289	12/15/2016	7.62	DOH	-82.63363	28.990437
AAK5289	5/20/2017	8.92	DOH	-82.63363	28.990437
AAK5289	2/19/2018	10	DOH	-82.63363	28.990437
AAK5289	8/1/2018	9.47	DOH	-82.63363	28.990437
AAK5289	2/4/2019	10	DOH	-82.63363	28.990437
AAK5289	7/19/2019	9.96	DOH	-82.63363	28.990437
AAK5289	3/23/2020	9.81	DOH	-82.63363	28.990437
AAK5289	7/22/2020	10	DOH	-82.63363	28.990437
AAK5291	3/27/2007	10	DOH	-82.63392	28.990445
AAK5291	4/24/2007	11	DOH	-82.63392	28.990445
AAK5291	6/5/2007	12	DOH	-82.63392	28.990445
AAK5291	4/26/2012	8.60	DOH	-82.63392	28.990445
AAK5291	9/21/2016	9.50	DOH	-82.63392	28.990445
AAK5291	6/21/2017	13	DOH	-82.63392	28.990445

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAK5295	3/27/2007	10	DOH	-82.63713	28.990777
AAK5295	4/24/2007	12	DOH	-82.63713	28.990777
AAK5295	7/12/2012	0.76	DOH	-82.63713	28.990777
AAK5295	8/17/2015	9.41	DOH	-82.63713	28.990777
AAK5295	9/24/2016	0.24	DOH	-82.63713	28.990777
AAK5295	10/9/2018	0.63	DOH	-82.63713	28.990777
AAK5295	10/20/2020	0.72	DOH	-82.63713	28.990777
AAL3900	3/3/2008	15	DOH	-82.60317	29.00916
AAL3900	5/22/2012	15	DOH	-82.60317	29.00916
AAL3900	9/24/2016	11	DOH	-82.60317	29.00916
AAL3900	7/23/2019	12	DOH	-82.60317	29.00916
AAL3901	3/3/2008	15	DOH	-82.62647	28.943952
AAL3901	6/30/2014	19	DOH	-82.62647	28.943952
AAL3901	7/21/2015	3.51	DOH	-82.62647	28.943952
AAL3901	8/31/2015	18	DOH	-82.62647	28.943952
AAL3901	1/19/2016	0.85	DOH	-82.62647	28.943952
AAL3902	3/3/2008	26	DOH	-82.62867	28.946619
AAL3902	9/29/2014	31	DOH	-82.62867	28.946619
AAL3902	1/5/2016	5.73	DOH	-82.62867	28.946619
AAL3902	4/4/2016	5.57	DOH	-82.62867	28.946619
AAL3902	7/21/2016	7.27	DOH	-82.62867	28.946619
AAL3902	10/24/2016	17	DOH	-82.62867	28.946619
AAL3902	2/16/2017	8.37	DOH	-82.62867	28.946619
AAL3902	6/26/2017	17	DOH	-82.62867	28.946619
AAL3902	11/17/2017	1.87	DOH	-82.62867	28.946619
AAL3902	2/12/2018	8.15	DOH	-82.62867	28.946619
AAL3902	5/31/2018	8.17	DOH	-82.62867	28.946619
AAL3902	9/14/2018	1.57	DOH	-82.62867	28.946619
AAL3902	12/10/2018	7.12	DOH	-82.62867	28.946619
AAL3902	3/4/2019	7.84	DOH	-82.62867	28.946619
AAL3902	5/30/2019	8.20	DOH	-82.62867	28.946619
AAL3902	9/11/2019	9.16	DOH	-82.62867	28.946619
AAL3902	12/11/2019	9.24	DOH	-82.62867	28.946619
AAL3902	6/24/2020	7.98	DOH	-82.62867	28.946619
AAL3902	9/29/2020	8.43	DOH	-82.62867	28.946619
AAL3902	1/7/2021	8.27	DOH	-82.62867	28.946619
AAL3903	3/3/2008	20	DOH	-82.61027	28.957024
AAL3903	2/6/2013	23	DOH	-82.61027	28.957024
AAL3903	3/30/2016	7.64	DOH	-82.61027	28.957024
AAL3903	3/23/2020	18	DOH	-82.61027	28.957024
AAL3905	2/28/2008	25	DOH	-82.62868	28.943742
AAL3905	5/22/2012	24	DOH	-82.62868	28.943742

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAL3905	6/23/2017	1.78	DOH	-82.62868	28.943742
AAL3905	9/26/2017	1.13	DOH	-82.62868	28.943742
AAL3905	3/7/2018	22	DOH	-82.62868	28.943742
AAL3905	3/23/2020	1.79	DOH	-82.62868	28.943742
AAL3905	8/7/2020	1.42	DOH	-82.62868	28.943742
AAL3905	11/18/2020	22	DOH	-82.62868	28.943742
AAL3906	2/28/2008	9.45	DOH	-82.62423	28.941733
AAL3906	7/9/2008	13	DOH	-82.62423	28.941733
AAL3906	5/5/2014	3.82	DOH	-82.62423	28.941733
AAL3906	8/31/2015	6.92	DOH	-82.62423	28.941733
AAL3906	9/27/2016	5.24	DOH	-82.62423	28.941733
AAL3919	2/11/2008	15	DOH	-82.62947	28.943139
AAL3919	5/22/2012	14	DOH	-82.62947	28.943139
AAL3919	7/23/2015	13	DOH	-82.62947	28.943139
AAL3919	7/11/2018	9.76	DOH	-82.62947	28.943139
AAL3919	1/31/2019	8.14	DOH	-82.62947	28.943139
AAL3919	7/23/2019	14	DOH	-82.62947	28.943139
AAL3920	2/11/2008	9.29	DOH	-82.62443	28.942506
AAL3920	6/9/2008	9.15	DOH	-82.62443	28.942506
AAL3920	9/29/2008	10	DOH	-82.62443	28.942506
AAL3920	2/26/2009	8.38	DOH	-82.62443	28.942506
AAL3920	6/5/2009	9.31	DOH	-82.62443	28.942506
AAL3920	7/21/2009	12	DOH	-82.62443	28.942506
AAL3920	5/3/2012	15	DOH	-82.62443	28.942506
AAL3920	8/31/2015	6.25	DOH	-82.62443	28.942506
AAL3920	9/27/2016	1.76	DOH	-82.62443	28.942506
AAL3920	8/20/2018	28	DOH	-82.62443	28.942506
AAL3920	8/5/2020	6.46	DOH	-82.62443	28.942506
AAL3921	2/11/2008	19	DOH	-82.62789	28.943802
AAL3921	5/22/2012	14	DOH	-82.62789	28.943802
AAL3921	1/19/2016	18	DOH	-82.62789	28.943802
AAL3921	1/31/2019	19	DOH	-82.62789	28.943802
AAL3922	2/11/2008	16	DOH	-82.62601	28.944521
AAL3922	5/22/2012	17	DOH	-82.62601	28.944521
AAL3922	8/31/2015	14	DOH	-82.62601	28.944521
AAL3922	9/21/2016	14	DOH	-82.62601	28.944521
AAL3922	9/25/2019	13	DOH	-82.62601	28.944521
AAL3923	2/4/2008	33	DOH	-82.62865	28.944314
AAL3923	5/3/2012	29	DOH	-82.62865	28.944314
AAL3923	5/16/2017	63	DOH	-82.62865	28.944314
AAL3923	7/31/2017	34	DOH	-82.62865	28.944314
AAL3923	7/11/2018	34	DOH	-82.62865	28.944314

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAL3923	7/23/2019	32	DOH	-82.62865	28.944314
AAL3923	8/7/2020	30	DOH	-82.62865	28.944314
AAL3925	2/4/2008	15	DOH	-82.62966	28.944527
AAL3925	5/3/2012	14	DOH	-82.62966	28.944527
AAL3925	3/28/2016	6.98	DOH	-82.62966	28.944527
AAL3925	3/2/2018	1.12	DOH	-82.62966	28.944527
AAL3925	4/9/2018	14	DOH	-82.62966	28.944527
AAL3926	2/4/2008	20	DOH	-82.62963	28.944533
AAL3926	5/3/2012	21	DOH	-82.62963	28.944533
AAL3926	1/19/2016	2.47	DOH	-82.62963	28.944533
AAL3926	6/27/2016	11	DOH	-82.62963	28.944533
AAL3926	1/24/2017	0.88	DOH	-82.62963	28.944533
AAL3926	6/27/2017	0.42	DOH	-82.62963	28.944533
AAL3926	9/26/2017	2.60	DOH	-82.62963	28.944533
AAL3926	3/2/2018	16	DOH	-82.62963	28.944533
AAL3927	2/4/2008	20	DOH	-82.62907	28.944639
AAL3927	5/3/2012	26	DOH	-82.62907	28.944639
AAL3927	6/23/2017	20	DOH	-82.62907	28.944639
AAL3927	5/2/2019	19	DOH	-82.62907	28.944639
AAL3929	2/4/2008	15	DOH	-82.6258	28.943935
AAL3929	5/22/2012	10	DOH	-82.6258	28.943935
AAL3929	3/28/2016	0.55	DOH	-82.6258	28.943935
AAL3929	6/27/2016	0.64	DOH	-82.6258	28.943935
AAL3929	9/21/2016	0.70	DOH	-82.6258	28.943935
AAL3929	10/26/2016	11	DOH	-82.6258	28.943935
AAL3929	11/19/2019	0.98	DOH	-82.6258	28.943935
AAL3929	3/23/2020	0.74	DOH	-82.6258	28.943935
AAL3929	4/10/2020	0.67	DOH	-82.6258	28.943935
AAL3930	2/4/2008	12	DOH	-82.62746	28.943922
AAL3930	11/19/2019	15	DOH	-82.62746	28.943922
AAL3930	2/6/2020	16	DOH	-82.62746	28.943922
AAL3930	7/14/2020	17	DOH	-82.62746	28.943922
AAL3931	2/4/2008	22	DOH	-82.62745	28.943766
AAL3931	5/3/2012	68	DOH	-82.62745	28.943766
AAL3931	3/22/2013	22	DOH	-82.62745	28.943766
AAL3931	9/2/2014	1.18	DOH	-82.62745	28.943766
AAL3931	8/31/2015	19	DOH	-82.62745	28.943766
AAL3931	3/28/2016	2.36	DOH	-82.62745	28.943766
AAL3931	6/27/2016	33	DOH	-82.62745	28.943766
AAL3931	6/27/2017	1.92	DOH	-82.62745	28.943766
AAL3931	9/26/2017	0.94	DOH	-82.62745	28.943766
AAL3931	3/2/2018	0.86	DOH	-82.62745	28.943766

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAL3931	5/1/2018	23	DOH	-82.62745	28.943766
AAL3931	5/13/2020	19	DOH	-82.62745	28.943766
AAL3933	1/28/2008	24	DOH	-82.60257	29.009418
AAL3933	5/16/2012	14	DOH	-82.60257	29.009418
AAL3933	7/22/2015	4.87	DOH	-82.60257	29.009418
AAL3933	2/1/2016	9.69	DOH	-82.60257	29.009418
AAL3933	9/24/2016	11	DOH	-82.60257	29.009418
AAL3933	7/23/2019	29	DOH	-82.60257	29.009418
AAL3935	1/18/2008	8.29	DOH	-82.61286	28.957624
AAL3935	6/6/2008	7.73	DOH	-82.61286	28.957624
AAL3935	9/9/2008	7.81	DOH	-82.61286	28.957624
AAL3935	12/8/2008	7.87	DOH	-82.61286	28.957624
AAL3935	5/15/2009	8.52	DOH	-82.61286	28.957624
AAL3935	7/21/2009	7.84	DOH	-82.61286	28.957624
AAL3935	10/22/2009	7.85	DOH	-82.61286	28.957624
AAL3935	3/1/2010	7.26	DOH	-82.61286	28.957624
AAL3935	6/17/2010	5.36	DOH	-82.61286	28.957624
AAL3935	9/1/2010	6.94	DOH	-82.61286	28.957624
AAL3935	1/27/2011	6.71	DOH	-82.61286	28.957624
AAL3935	7/11/2011	6.62	DOH	-82.61286	28.957624
AAL3935	12/4/2013	4.53	DOH	-82.61286	28.957624
AAL3935	9/24/2014	8.17	DOH	-82.61286	28.957624
AAL3935	12/14/2016	1.93	DOH	-82.61286	28.957624
AAL3935	11/30/2018	4.94	DOH	-82.61286	28.957624
AAL3936	1/18/2008	20	DOH	-82.61356	28.949031
AAL3936	3/10/2008	2.59	DOH	-82.61356	28.949031
AAL3936	4/30/2014	22	DOH	-82.61356	28.949031
AAL3936	6/27/2016	3.71	DOH	-82.61356	28.949031
AAL3936	10/5/2016	0.98	DOH	-82.61356	28.949031
AAL3936	6/27/2017	4.40	DOH	-82.61356	28.949031
AAL3936	9/26/2017	0.52	DOH	-82.61356	28.949031
AAL3936	8/20/2018	24	DOH	-82.61356	28.949031
AAL3936	8/2/2019	26	DOH	-82.61356	28.949031
AAL3937	1/18/2008	18	DOH	-82.61927	28.954295
AAL3937	7/31/2012	9.90	DOH	-82.61927	28.954295
AAL3937	8/25/2014	12	DOH	-82.61927	28.954295
AAL3937	9/26/2017	0.25	DOH	-82.61927	28.954295
AAL3937	12/18/2019	2.38	DOH	-82.61927	28.954295
AAL3938	1/18/2008	14	DOH	-82.62033	28.988607
AAL3938	5/9/2012	12	DOH	-82.62033	28.988607
AAL3938	2/7/2014	20	DOH	-82.62033	28.988607
AAL3938	3/29/2016	9.07	DOH	-82.62033	28.988607

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAL3938	7/26/2017	5.92	DOH	-82.62033	28.988607
AAL3938	9/24/2019	12	DOH	-82.62033	28.988607
AAL3941	1/4/2008	26	DOH	-82.62606	28.943308
AAL3941	5/26/2009	26	DOH	-82.62606	28.943308
AAL3941	2/19/2013	22	DOH	-82.62606	28.943308
AAL3941	3/28/2016	18	DOH	-82.62606	28.943308
AAL3941	3/1/2019	19	DOH	-82.62606	28.943308
AAL3946	12/17/2007	17	DOH	-82.62397	28.954529
AAL3946	7/31/2012	33	DOH	-82.62397	28.954529
AAL3946	8/27/2013	29	DOH	-82.62397	28.954529
AAL3946	9/26/2016	9.39	DOH	-82.62397	28.954529
AAL3946	6/22/2017	9.41	DOH	-82.62397	28.954529
AAL3946	2/12/2018	31	DOH	-82.62397	28.954529
AAL3946	1/31/2019	32	DOH	-82.62397	28.954529
AAL3946	3/23/2020	31	DOH	-82.62397	28.954529
AAL3947	12/17/2007	20	DOH	-82.62066	28.953222
AAL3947	5/18/2012	7.10	DOH	-82.62066	28.953222
AAL3947	8/15/2013	5.46	DOH	-82.62066	28.953222
AAL3947	7/21/2015	5.38	DOH	-82.62066	28.953222
AAL3947	11/16/2015	1.80	DOH	-82.62066	28.953222
AAL3947	12/13/2016	15	DOH	-82.62066	28.953222
AAL3947	2/17/2017	3.95	DOH	-82.62066	28.953222
AAL3947	6/27/2017	2.18	DOH	-82.62066	28.953222
AAL3955	11/28/2007	57	DOH	-82.61642	28.957047
AAL3955	6/11/2008	0.17	DOH	-82.61642	28.957047
AAL3955	9/9/2008	42	DOH	-82.61642	28.957047
AAL3955	9/24/2008	34	DOH	-82.61642	28.957047
AAL3955	12/2/2008	22	DOH	-82.61642	28.957047
AAL3955	1/12/2009	54	DOH	-82.61642	28.957047
AAL3955	4/23/2009	49	DOH	-82.61642	28.957047
AAL3955	6/1/2009	51	DOH	-82.61642	28.957047
AAL3955	9/10/2009	14	DOH	-82.61642	28.957047
AAL3955	12/10/2009	12	DOH	-82.61642	28.957047
AAL3955	3/15/2010	29	DOH	-82.61642	28.957047
AAL3955	6/4/2010	11	DOH	-82.61642	28.957047
AAL3955	10/27/2010	49	DOH	-82.61642	28.957047
AAL3955	1/20/2011	31	DOH	-82.61642	28.957047
AAL3955	4/15/2011	20	DOH	-82.61642	28.957047
AAL3955	7/7/2011	42	DOH	-82.61642	28.957047
AAL3955	10/6/2011	19	DOH	-82.61642	28.957047
AAL3955	1/5/2012	23	DOH	-82.61642	28.957047
AAL3955	4/9/2012	19	DOH	-82.61642	28.957047

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAL3955	7/5/2012	35	DOH	-82.61642	28.957047
AAL3955	9/26/2012	14	DOH	-82.61642	28.957047
AAL3955	12/27/2012	11	DOH	-82.61642	28.957047
AAL3955	4/3/2013	8.66	DOH	-82.61642	28.957047
AAL3955	7/30/2013	4.68	DOH	-82.61642	28.957047
AAL3955	10/28/2013	23	DOH	-82.61642	28.957047
AAL3955	3/5/2014	19	DOH	-82.61642	28.957047
AAL3955	9/4/2014	6.33	DOH	-82.61642	28.957047
AAL3955	12/8/2014	28	DOH	-82.61642	28.957047
AAL3955	6/19/2015	30	DOH	-82.61642	28.957047
AAL3955	9/14/2015	4.49	DOH	-82.61642	28.957047
AAL3955	1/6/2016	20	DOH	-82.61642	28.957047
AAL3955	4/5/2016	35	DOH	-82.61642	28.957047
AAL3955	7/21/2016	23	DOH	-82.61642	28.957047
AAL3955	10/24/2016	8.66	DOH	-82.61642	28.957047
AAL3955	2/16/2017	38	DOH	-82.61642	28.957047
AAL3955	6/26/2017	25	DOH	-82.61642	28.957047
AAL3955	11/3/2017	32	DOH	-82.61642	28.957047
AAL3955	2/12/2018	32	DOH	-82.61642	28.957047
AAL3955	6/8/2018	21	DOH	-82.61642	28.957047
AAL3955	9/20/2018	14	DOH	-82.61642	28.957047
AAL3955	11/30/2018	23	DOH	-82.61642	28.957047
AAL3955	3/1/2019	19	DOH	-82.61642	28.957047
AAL3955	5/30/2019	19	DOH	-82.61642	28.957047
AAL3955	9/12/2019	28	DOH	-82.61642	28.957047
AAL3956	11/16/2007	2.56	DOH	-82.61568	28.955802
AAL3956	5/5/2008	3.07	DOH	-82.61568	28.955802
AAL3956	8/25/2014	2.13	DOH	-82.61568	28.955802
AAL3956	12/29/2014	2.62	DOH	-82.61568	28.955802
AAL3956	3/2/2018	2.37	DOH	-82.61568	28.955802
AAL3957	11/16/2007	14	DOH	-82.62103	28.955721
AAL3957	8/25/2014	13	DOH	-82.62103	28.955721
AAL3957	9/2/2015	8.42	DOH	-82.62103	28.955721
AAL3957	7/25/2016	1.82	DOH	-82.62103	28.955721
AAL3957	9/26/2017	1.40	DOH	-82.62103	28.955721
AAL3957	12/16/2019	18	DOH	-82.62103	28.955721
AAL3963	11/2/2007	38	DOH	-82.61917	28.954919
AAL3963	7/12/2012	15	DOH	-82.61917	28.954919
AAL3963	3/30/2016	20	DOH	-82.61917	28.954919
AAL3963	2/12/2018	12	DOH	-82.61917	28.954919
AAL3964	11/1/2007	20	DOH	-82.62203	28.957224
AAL3964	11/9/2011	19	DOH	-82.62203	28.957224

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAL3964	9/2/2015	7.54	DOH	-82.62203	28.957224
AAL3964	9/27/2016	3.63	DOH	-82.62203	28.957224
AAL3964	12/13/2016	12	DOH	-82.62203	28.957224
AAL3964	12/9/2019	16	DOH	-82.62203	28.957224
AAL3965	11/1/2007	21	DOH	-82.62227	28.956335
AAL3965	5/22/2012	19	DOH	-82.62227	28.956335
AAL3965	5/26/2016	2.87	DOH	-82.62227	28.956335
AAL3965	9/27/2016	2.36	DOH	-82.62227	28.956335
AAL3965	12/13/2016	1.27	DOH	-82.62227	28.956335
AAL3965	5/16/2017	14	DOH	-82.62227	28.956335
AAL3965	5/7/2020	0.22	DOH	-82.62227	28.956335
AAL3965	9/22/2020	6.56	DOH	-82.62227	28.956335
AAL3967	11/1/2007	8.32	DOH	-82.63337	28.987978
AAL3967	1/28/2008	6.84	DOH	-82.63337	28.987978
AAL3967	6/6/2008	6.04	DOH	-82.63337	28.987978
AAL3967	8/5/2010	4.47	DOH	-82.63337	28.987978
AAL3967	5/7/2014	11	DOH	-82.63337	28.987978
AAL3967	10/9/2014	14	DOH	-82.63337	28.987978
AAL3967	8/18/2015	11	DOH	-82.63337	28.987978
AAL3967	3/30/2016	4.29	DOH	-82.63337	28.987978
AAL3969	10/16/2007	72	DOH	-82.62196	28.954525
AAL3969	11/28/2007	1.09	DOH	-82.62196	28.954525
AAL3969	6/9/2008	22	DOH	-82.62196	28.954525
AAL3969	1/28/2009	8.36	DOH	-82.62196	28.954525
AAL3969	3/29/2013	13	DOH	-82.62196	28.954525
AAL3969	9/10/2015	11	DOH	-82.62196	28.954525
AAL3969	9/10/2015	7.44	DOH	-82.62196	28.954525
AAL3969	12/10/2018	9.90	DOH	-82.62196	28.954525
AAL3969	12/10/2018	5.78	DOH	-82.62196	28.954525
AAL3972	10/15/2007	72	DOH	-82.62159	28.955292
AAL3972	6/11/2008	24	DOH	-82.62159	28.955292
AAL3972	9/9/2008	57	DOH	-82.62159	28.955292
AAL3972	9/24/2008	13	DOH	-82.62159	28.955292
AAL3972	12/8/2008	38	DOH	-82.62159	28.955292
AAL3972	1/12/2009	48	DOH	-82.62159	28.955292
AAL3972	4/23/2009	38	DOH	-82.62159	28.955292
AAL3972	6/4/2009	40	DOH	-82.62159	28.955292
AAL3972	9/10/2009	2.10	DOH	-82.62159	28.955292
AAL3972	6/17/2010	20	DOH	-82.62159	28.955292
AAL3972	9/22/2010	25	DOH	-82.62159	28.955292
AAL3972	1/3/2011	26	DOH	-82.62159	28.955292
AAL3972	4/7/2011	46	DOH	-82.62159	28.955292

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAL3972	7/5/2011	21	DOH	-82.62159	28.955292
AAL3972	10/4/2011	24	DOH	-82.62159	28.955292
AAL3972	1/3/2012	26	DOH	-82.62159	28.955292
AAL3972	4/2/2012	32	DOH	-82.62159	28.955292
AAL3972	7/5/2012	31	DOH	-82.62159	28.955292
AAL3972	7/30/2013	32	DOH	-82.62159	28.955292
AAL3972	10/30/2013	30	DOH	-82.62159	28.955292
AAL3972	3/5/2014	34	DOH	-82.62159	28.955292
AAL3972	9/16/2014	35	DOH	-82.62159	28.955292
AAL3972	12/16/2014	37	DOH	-82.62159	28.955292
AAL3972	6/19/2015	20	DOH	-82.62159	28.955292
AAL3972	9/14/2015	22	DOH	-82.62159	28.955292
AAL3972	1/6/2016	23	DOH	-82.62159	28.955292
AAL3972	4/5/2016	22	DOH	-82.62159	28.955292
AAL3972	7/21/2016	68	DOH	-82.62159	28.955292
AAL3972	10/24/2016	24	DOH	-82.62159	28.955292
AAL3972	2/16/2017	35	DOH	-82.62159	28.955292
AAL3972	6/26/2017	1.90	DOH	-82.62159	28.955292
AAL3972	11/3/2017	3.68	DOH	-82.62159	28.955292
AAL3972	2/12/2018	30	DOH	-82.62159	28.955292
AAL3972	6/8/2018	35	DOH	-82.62159	28.955292
AAL3972	9/20/2018	34	DOH	-82.62159	28.955292
AAL3972	11/30/2018	33	DOH	-82.62159	28.955292
AAL3972	3/4/2019	38	DOH	-82.62159	28.955292
AAL3972	5/30/2019	21	DOH	-82.62159	28.955292
AAL3972	9/11/2019	22	DOH	-82.62159	28.955292
AAL3972	12/11/2019	23	DOH	-82.62159	28.955292
AAL3972	3/9/2020	41	DOH	-82.62159	28.955292
AAL3972	6/18/2020	42	DOH	-82.62159	28.955292
AAL3972	9/22/2020	24	DOH	-82.62159	28.955292
AAL3972	12/21/2020	27	DOH	-82.62159	28.955292
AAL3973	10/15/2007	19	DOH	-82.62101	28.953717
AAL3973	8/8/2014	2.15	DOH	-82.62101	28.953717
AAL3973	12/29/2014	4.67	DOH	-82.62101	28.953717
AAL3973	5/7/2015	2.21	DOH	-82.62101	28.953717
AAL3973	9/2/2015	6.08	DOH	-82.62101	28.953717
AAL3973	11/16/2015	5.90	DOH	-82.62101	28.953717
AAL3975	10/15/2007	18	DOH	-82.62197	28.953463
AAL3975	8/25/2014	13	DOH	-82.62197	28.953463
AAL3975	9/2/2015	1.97	DOH	-82.62197	28.953463
AAL3975	10/22/2015	22	DOH	-82.62197	28.953463
AAL3975	12/20/2018	12	DOH	-82.62197	28.953463

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAL3976	10/15/2007	30	DOH	-82.62465	28.952847
AAL3976	9/29/2008	30	DOH	-82.62465	28.952847
AAL3976	2/6/2013	24	DOH	-82.62465	28.952847
AAL3976	3/15/2016	15	DOH	-82.62465	28.952847
AAL3976	3/4/2019	19	DOH	-82.62465	28.952847
AAL3977	10/15/2007	7.40	DOH	-82.62431	28.954687
AAL3977	1/28/2008	7.40	DOH	-82.62431	28.954687
AAL3977	6/6/2008	4.73	DOH	-82.62431	28.954687
AAL3977	9/9/2008	5.66	DOH	-82.62431	28.954687
AAL3977	10/15/2009	5.45	DOH	-82.62431	28.954687
AAL3977	10/26/2010	5.36	DOH	-82.62431	28.954687
AAL3977	10/25/2011	3.91	DOH	-82.62431	28.954687
AAL3977	8/20/2018	5.59	DOH	-82.62431	28.954687
AAL3978	10/15/2007	7.58	DOH	-82.62323	28.953709
AAL3978	7/9/2008	7.13	DOH	-82.62323	28.953709
AAL3978	2/18/2009	14	DOH	-82.62323	28.953709
AAL3978	5/18/2012	2.60	DOH	-82.62323	28.953709
AAL3978	8/15/2013	9.91	DOH	-82.62323	28.953709
AAL3978	3/15/2016	2.41	DOH	-82.62323	28.953709
AAL3978	6/27/2016	1.80	DOH	-82.62323	28.953709
AAL3978	9/26/2017	0.68	DOH	-82.62323	28.953709
AAL3978	1/31/2019	2.19	DOH	-82.62323	28.953709
AAL7311	7/16/2008	70	DOH	-82.63463	28.977833
AAL7311	1/28/2009	78	DOH	-82.63463	28.977833
AAL7311	3/27/2009	30	DOH	-82.63463	28.977833
AAL7311	7/13/2009	23	DOH	-82.63463	28.977833
AAL7311	10/15/2009	14	DOH	-82.63463	28.977833
AAL7311	1/15/2010	26	DOH	-82.63463	28.977833
AAL7311	5/5/2010	19	DOH	-82.63463	28.977833
AAL7311	7/12/2010	29	DOH	-82.63463	28.977833
AAL7311	10/8/2010	27	DOH	-82.63463	28.977833
AAL7311	1/3/2011	28	DOH	-82.63463	28.977833
AAL7311	3/30/2011	20	DOH	-82.63463	28.977833
AAL7311	7/14/2011	22	DOH	-82.63463	28.977833
AAL7311	10/17/2011	31	DOH	-82.63463	28.977833
AAL7311	1/18/2012	29	DOH	-82.63463	28.977833
AAL7311	4/18/2012	39	DOH	-82.63463	28.977833
AAL7311	7/20/2012	46	DOH	-82.63463	28.977833
AAL7311	10/16/2012	56	DOH	-82.63463	28.977833
AAL7311	1/9/2013	58	DOH	-82.63463	28.977833
AAL7311	4/10/2013	22	DOH	-82.63463	28.977833
AAL7311	7/30/2013	23	DOH	-82.63463	28.977833

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAL7311	10/30/2013	23	DOH	-82.63463	28.977833
AAL7311	3/4/2014	25	DOH	-82.63463	28.977833
AAL7311	1/5/2016	30	DOH	-82.63463	28.977833
AAL7311	4/4/2016	16	DOH	-82.63463	28.977833
AAL7311	7/21/2016	32	DOH	-82.63463	28.977833
AAL7311	10/24/2016	16	DOH	-82.63463	28.977833
AAL7311	2/16/2017	30	DOH	-82.63463	28.977833
AAL7311	6/26/2017	18	DOH	-82.63463	28.977833
AAL7311	11/20/2017	18	DOH	-82.63463	28.977833
AAL7311	2/12/2018	18	DOH	-82.63463	28.977833
AAL7311	6/8/2018	17	DOH	-82.63463	28.977833
AAL7311	9/20/2018	21	DOH	-82.63463	28.977833
AAL7311	12/20/2018	19	DOH	-82.63463	28.977833
AAL7311	4/3/2019	21	DOH	-82.63463	28.977833
AAL7311	6/13/2019	26	DOH	-82.63463	28.977833
AAL7311	9/24/2019	26	DOH	-82.63463	28.977833
AAL7311	12/27/2019	30	DOH	-82.63463	28.977833
AAL7311	3/26/2020	30	DOH	-82.63463	28.977833
AAL7311	6/24/2020	33	DOH	-82.63463	28.977833
AAL7311	9/29/2020	16	DOH	-82.63463	28.977833
AAL7330	6/16/2008	6.11	DOH	-82.63405	28.998031
AAL7330	10/14/2008	6.46	DOH	-82.63405	28.998031
AAL7330	5/5/2010	5.53	DOH	-82.63405	28.998031
AAL7330	4/22/2011	7.02	DOH	-82.63405	28.998031
AAL7330	4/18/2012	7.10	DOH	-82.63405	28.998031
AAL7330	7/23/2015	6.99	DOH	-82.63405	28.998031
AAL7330	6/27/2018	6.56	DOH	-82.63405	28.998031
AAL7334	6/16/2008	15	DOH	-82.59945	29.011299
AAL7334	9/20/2012	12	DOH	-82.59945	29.011299
AAL7334	8/16/2017	27	DOH	-82.59945	29.011299
AAL7334	9/24/2019	2.88	DOH	-82.59945	29.011299
AAL7334	5/7/2020	2.51	DOH	-82.59945	29.011299
AAL7334	7/31/2020	0.96	DOH	-82.59945	29.011299
AAL7334	11/5/2020	1.88	DOH	-82.59945	29.011299
AAL7335	6/9/2008	24	DOH	-82.60959	28.982497
AAL7335	4/9/2014	24	DOH	-82.60959	28.982497
AAL7335	7/23/2015	15	DOH	-82.60959	28.982497
AAL7335	7/25/2018	30	DOH	-82.60959	28.982497
AAL7336	6/9/2008	7.52	DOH	-82.64294	29.006303
AAL7336	10/20/2008	8.63	DOH	-82.64294	29.006303
AAL7336	1/21/2009	8.42	DOH	-82.64294	29.006303
AAL7336	5/26/2009	8.51	DOH	-82.64294	29.006303

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAL7336	7/29/2010	9.02	DOH	-82.64294	29.006303
AAL7336	10/18/2010	7.03	DOH	-82.64294	29.006303
AAL7336	4/7/2011	7.30	DOH	-82.64294	29.006303
AAL7336	10/25/2011	5.11	DOH	-82.64294	29.006303
AAL7336	4/9/2012	7.20	DOH	-82.64294	29.006303
AAL7336	7/23/2015	2.29	DOH	-82.64294	29.006303
AAL7336	6/27/2018	8.19	DOH	-82.64294	29.006303
AAL7336	9/24/2018	9.94	DOH	-82.64294	29.006303
AAL7336	12/20/2018	7.66	DOH	-82.64294	29.006303
AAL7336	3/1/2019	7.62	DOH	-82.64294	29.006303
AAL7336	4/29/2019	7.56	DOH	-82.64294	29.006303
AAL7336	11/18/2019	7.43	DOH	-82.64294	29.006303
AAL7336	4/9/2020	7.60	DOH	-82.64294	29.006303
AAL7336	11/2/2020	8.12	DOH	-82.64294	29.006303
AAL7344	5/5/2008	5.68	DOH	-82.63806	28.997912
AAL7344	10/16/2009	5.86	DOH	-82.63806	28.997912
AAL7344	5/10/2010	6.09	DOH	-82.63806	28.997912
AAL7344	4/22/2011	6.23	DOH	-82.63806	28.997912
AAL7344	4/18/2012	10	DOH	-82.63806	28.997912
AAL7344	12/27/2012	6.20	DOH	-82.63806	28.997912
AAL7344	8/8/2014	4.98	DOH	-82.63806	28.997912
AAL7346	5/5/2008	19	DOH	-82.62749	28.949106
AAL7346	6/9/2008	24	DOH	-82.62749	28.949106
AAL7346	9/29/2008	31	DOH	-82.62749	28.949106
AAL7346	8/31/2015	22	DOH	-82.62749	28.949106
AAL7355	4/21/2008	8.58	DOH	-82.62672	28.953889
AAL7355	7/9/2008	3.86	DOH	-82.62672	28.953889
AAL7355	1/15/2009	18	DOH	-82.62672	28.953889
AAL7355	12/19/2011	8.57	DOH	-82.62672	28.953889
AAL7355	2/19/2013	30	DOH	-82.62672	28.953889
AAL7355	6/4/2013	23	DOH	-82.62672	28.953889
AAL7355	8/30/2013	14	DOH	-82.62672	28.953889
AAL7355	12/2/2013	26	DOH	-82.62672	28.953889
AAL7355	3/4/2014	19	DOH	-82.62672	28.953889
AAL7355	9/16/2014	29	DOH	-82.62672	28.953889
AAL7355	12/16/2014	27	DOH	-82.62672	28.953889
AAL7355	6/19/2015	28	DOH	-82.62672	28.953889
AAL7355	9/23/2015	20	DOH	-82.62672	28.953889
AAL7355	1/6/2016	22	DOH	-82.62672	28.953889
AAL7355	4/5/2016	31	DOH	-82.62672	28.953889
AAL7355	7/21/2016	29	DOH	-82.62672	28.953889
AAL7355	12/5/2016	39	DOH	-82.62672	28.953889

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAL7355	4/18/2017	46	DOH	-82.62672	28.953889
AAL7355	8/11/2017	56	DOH	-82.62672	28.953889
AAL7355	2/12/2018	58	DOH	-82.62672	28.953889
AAL7355	5/31/2018	22	DOH	-82.62672	28.953889
AAL7355	9/14/2018	23	DOH	-82.62672	28.953889
AAL7355	12/10/2018	23	DOH	-82.62672	28.953889
AAL7355	3/4/2019	25	DOH	-82.62672	28.953889
AAL7355	5/30/2019	30	DOH	-82.62672	28.953889
AAL7355	9/11/2019	16	DOH	-82.62672	28.953889
AAL7355	12/11/2019	32	DOH	-82.62672	28.953889
AAL7355	3/9/2020	16	DOH	-82.62672	28.953889
AAL7355	6/18/2020	30	DOH	-82.62672	28.953889
AAL7355	9/22/2020	18	DOH	-82.62672	28.953889
AAL7355	1/7/2021	18	DOH	-82.62672	28.953889
AAL7369	3/28/2008	15	DOH	-82.6588	28.955495
AAL7369	7/20/2012	11	DOH	-82.6588	28.955495
AAL7369	9/10/2015	2.17	DOH	-82.6588	28.955495
AAL7369	9/23/2015	0.25	DOH	-82.6588	28.955495
AAL7369	1/5/2016	2.98	DOH	-82.6588	28.955495
AAL7369	4/4/2016	2.49	DOH	-82.6588	28.955495
AAL7369	11/15/2019	5.16	DOH	-82.6588	28.955495
AAL7369	3/24/2020	4.32	DOH	-82.6588	28.955495
AAL7369	6/24/2020	5.13	DOH	-82.6588	28.955495
AAL7369	9/29/2020	4.85	DOH	-82.6588	28.955495
AAL7369	1/7/2021	5.34	DOH	-82.6588	28.955495
AAL7372	3/27/2008	10	DOH	-82.60142	29.009854
AAL7372	6/6/2008	9.42	DOH	-82.60142	29.009854
AAL7372	9/29/2008	8.22	DOH	-82.60142	29.009854
AAL7372	2/26/2009	9.60	DOH	-82.60142	29.009854
AAL7372	6/16/2009	8.89	DOH	-82.60142	29.009854
AAL7372	1/22/2010	3.04	DOH	-82.60142	29.009854
AAL7372	7/22/2015	1.31	DOH	-82.60142	29.009854
AAL7372	8/16/2017	3.75	DOH	-82.60142	29.009854
AAL7372	7/31/2020	1.53	DOH	-82.60142	29.009854
AAL7372	11/2/2020	5.51	DOH	-82.60142	29.009854
AAL7377	3/24/2008	24	DOH	-82.60083	29.010112
AAL7377	6/8/2012	8.60	DOH	-82.60083	29.010112
AAL7377	10/18/2013	16	DOH	-82.60083	29.010112
AAL7377	9/24/2016	0.070	DOH	-82.60083	29.010112
AAL7377	10/28/2016	5.43	DOH	-82.60083	29.010112
AAL7377	6/27/2017	2.52	DOH	-82.60083	29.010112
AAL7377	9/24/2018	12	DOH	-82.60083	29.010112

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAL7377	9/22/2020	0.060	DOH	-82.60083	29.010112
AAL7378	3/17/2008	15	DOH	-82.62733	28.949338
AAL7378	6/9/2008	14	DOH	-82.62733	28.949338
AAL7378	9/29/2008	26	DOH	-82.62733	28.949338
AAL7378	8/28/2014	9.80	DOH	-82.62733	28.949338
AAL7378	12/29/2014	17	DOH	-82.62733	28.949338
AAL7378	8/31/2015	14	DOH	-82.62733	28.949338
AAL7388	3/10/2008	11	DOH	-82.60306	29.00895
AAL7388	9/24/2012	11	DOH	-82.60306	29.00895
AAL7388	2/19/2013	14	DOH	-82.60306	29.00895
AAL7388	3/29/2016	6.04	DOH	-82.60306	29.00895
AAL7388	6/30/2016	5.51	DOH	-82.60306	29.00895
AAL7388	9/24/2016	17	DOH	-82.60306	29.00895
AAL7388	9/25/2019	13	DOH	-82.60306	29.00895
AAL7397	3/3/2008	17	DOH	-82.60239	29.009561
AAL7397	5/16/2012	20	DOH	-82.60239	29.009561
AAL7397	10/28/2016	23	DOH	-82.60239	29.009561
AAL7397	10/9/2018	23	DOH	-82.60239	29.009561
AAL7398	3/3/2008	29	DOH	-82.60107	29.009133
AAL7398	5/16/2012	18	DOH	-82.60107	29.009133
AAL7398	5/26/2016	8.67	DOH	-82.60107	29.009133
AAL7398	10/28/2016	17	DOH	-82.60107	29.009133
AAL7398	11/18/2019	14	DOH	-82.60107	29.009133
AAL7602	8/5/2008	34	DOH	-82.6028	29.007293
AAL7602	8/15/2013	19	DOH	-82.6028	29.007293
AAL7602	8/8/2014	21	DOH	-82.6028	29.007293
AAL7602	5/7/2015	2.79	DOH	-82.6028	29.007293
AAL7602	8/17/2015	23	DOH	-82.6028	29.007293
AAL7602	8/16/2017	0.51	DOH	-82.6028	29.007293
AAL7603	8/5/2008	8.64	DOH	-82.64013	28.998037
AAL7603	12/22/2008	8.17	DOH	-82.64013	28.998037
AAL7603	6/4/2009	6.59	DOH	-82.64013	28.998037
AAL7603	8/13/2010	7.22	DOH	-82.64013	28.998037
AAL7603	1/20/2011	6.38	DOH	-82.64013	28.998037
AAL7603	8/2/2011	6.89	DOH	-82.64013	28.998037
AAL7603	1/5/2012	4.98	DOH	-82.64013	28.998037
AAL7603	8/30/2013	7.23	DOH	-82.64013	28.998037
AAL7603	8/17/2017	2.06	DOH	-82.64013	28.998037
AAL7606	8/14/2008	30	DOH	-82.62217	28.95396
AAL7606	9/29/2008	11	DOH	-82.62217	28.95396
AAL7606	9/20/2012	5.70	DOH	-82.62217	28.95396
AAL7606	2/6/2013	1.80	DOH	-82.62217	28.95396

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAL7606	8/15/2013	0.88	DOH	-82.62217	28.95396
AAL7606	9/17/2014	11	DOH	-82.62217	28.95396
AAL7606	3/2/2018	3.73	DOH	-82.62217	28.95396
AAL7606	5/16/2018	3.63	DOH	-82.62217	28.95396
AAL7606	9/24/2018	3.95	DOH	-82.62217	28.95396
AAL7606	12/10/2018	3.15	DOH	-82.62217	28.95396
AAL7606	8/2/2019	3.24	DOH	-82.62217	28.95396
AAL7610	8/14/2008	33	DOH	-82.61995	28.986147
AAL7610	7/6/2012	26	DOH	-82.61995	28.986147
AAL7610	2/1/2016	0.85	DOH	-82.61995	28.986147
AAL7610	3/7/2018	26	DOH	-82.61995	28.986147
AAL7610	3/23/2020	26	DOH	-82.61995	28.986147
AAL7611	8/14/2008	31	DOH	-82.62157	28.986054
AAL7611	7/9/2012	26	DOH	-82.62157	28.986054
AAL7611	5/26/2016	26	DOH	-82.62157	28.986054
AAL7611	6/8/2018	25	DOH	-82.62157	28.986054
AAL7611	4/10/2020	16	DOH	-82.62157	28.986054
AAL7626	9/8/2008	12	DOH	-82.62871	28.973235
AAL7626	6/7/2012	6.60	DOH	-82.62871	28.973235
AAL7626	8/30/2013	7.62	DOH	-82.62871	28.973235
AAL7626	2/1/2016	1.68	DOH	-82.62871	28.973235
AAL7626	5/26/2016	89	DOH	-82.62871	28.973235
AAL7626	6/14/2016	4.24	DOH	-82.62871	28.973235
AAL7626	12/12/2016	3.59	DOH	-82.62871	28.973235
AAL7626	6/20/2017	13	DOH	-82.62871	28.973235
AAL7626	4/9/2020	1.72	DOH	-82.62871	28.973235
AAL7626	7/22/2020	1.84	DOH	-82.62871	28.973235
AAL7626	10/20/2020	5.17	DOH	-82.62871	28.973235
AAL7630	9/10/2008	25	DOH	-82.61987	28.987024
AAL7630	12/5/2014	19	DOH	-82.61987	28.987024
AAL7630	3/29/2016	15	DOH	-82.61987	28.987024
AAL7630	2/4/2019	14	DOH	-82.61987	28.987024
AAL7632	9/15/2008	15	DOH	-82.62155	28.983009
AAL7632	7/25/2012	15	DOH	-82.62155	28.983009
AAL7632	3/29/2016	13	DOH	-82.62155	28.983009
AAL7632	5/2/2019	11	DOH	-82.62155	28.983009
AAL7638	9/22/2008	8.16	DOH	-82.62773	28.979255
AAL7638	11/10/2008	8.31	DOH	-82.62773	28.979255
AAL7638	5/15/2009	7.75	DOH	-82.62773	28.979255
AAL7638	10/20/2009	7.49	DOH	-82.62773	28.979255
AAL7638	1/11/2010	9.17	DOH	-82.62773	28.979255
AAL7638	5/28/2010	8.00	DOH	-82.62773	28.979255

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAL7638	3/11/2011	7.07	DOH	-82.62773	28.979255
AAL7638	8/11/2011	7.18	DOH	-82.62773	28.979255
AAL7638	9/3/2013	7.74	DOH	-82.62773	28.979255
AAL7638	2/1/2016	8.18	DOH	-82.62773	28.979255
AAL7638	6/30/2016	9.38	DOH	-82.62773	28.979255
AAL7638	10/5/2016	9.22	DOH	-82.62773	28.979255
AAL7638	4/18/2017	3.16	DOH	-82.62773	28.979255
AAL7638	2/12/2018	8.05	DOH	-82.62773	28.979255
AAL7638	1/31/2019	8.23	DOH	-82.62773	28.979255
AAL7638	3/23/2020	7.37	DOH	-82.62773	28.979255
AAL7641	9/26/2008	14	DOH	-82.62003	28.98513
AAL7641	5/9/2012	14	DOH	-82.62003	28.98513
AAL7641	3/29/2016	11	DOH	-82.62003	28.98513
AAL7641	2/4/2019	15	DOH	-82.62003	28.98513
AAL7642	9/29/2008	20	DOH	-82.62142	28.985188
AAL7642	7/9/2012	19	DOH	-82.62142	28.985188
AAL7642	5/26/2016	9.40	DOH	-82.62142	28.985188
AAL7642	10/28/2016	18	DOH	-82.62142	28.985188
AAL7642	12/6/2019	27	DOH	-82.62142	28.985188
AAL7645	9/29/2008	8.31	DOH	-82.62027	28.98304
AAL7645	11/10/2008	6.66	DOH	-82.62027	28.98304
AAL7645	1/22/2010	5.63	DOH	-82.62027	28.98304
AAL7645	5/10/2010	8.40	DOH	-82.62027	28.98304
AAL7645	8/6/2010	7.59	DOH	-82.62027	28.98304
AAL7645	2/23/2011	6.37	DOH	-82.62027	28.98304
AAL7645	1/18/2012	8.47	DOH	-82.62027	28.98304
AAL7645	10/30/2013	7.25	DOH	-82.62027	28.98304
AAL7645	12/5/2014	7.15	DOH	-82.62027	28.98304
AAL7645	2/1/2016	4.64	DOH	-82.62027	28.98304
AAL7651	10/2/2008	17	DOH	-82.62736	28.978917
AAL7651	6/7/2012	14	DOH	-82.62736	28.978917
AAL7651	7/22/2015	14	DOH	-82.62736	28.978917
AAL7651	6/8/2018	24	DOH	-82.62736	28.978917
AAL7651	5/7/2020	13	DOH	-82.62736	28.978917
AAL7654	10/6/2008	11	DOH	-82.61585	28.987703
AAL7654	5/9/2012	10	DOH	-82.61585	28.987703
AAL7654	2/1/2016	6.91	DOH	-82.61585	28.987703
AAL7654	6/30/2016	13	DOH	-82.61585	28.987703
AAL7654	5/2/2019	10	DOH	-82.61585	28.987703
AAL7654	12/27/2019	7.95	DOH	-82.61585	28.987703
AAL7654	4/23/2020	10	DOH	-82.61585	28.987703
AAL7676	11/4/2008	9.88	DOH	-82.60906	28.923673

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAL7676	1/21/2009	9.07	DOH	-82.60906	28.923673
AAL7676	5/13/2009	10	DOH	-82.60906	28.923673
AAL7676	7/15/2009	11	DOH	-82.60906	28.923673
AAL7676	4/30/2012	10	DOH	-82.60906	28.923673
AAL7676	1/19/2016	9.06	DOH	-82.60906	28.923673
AAL7676	9/10/2016	9.64	DOH	-82.60906	28.923673
AAL7676	5/15/2017	9.39	DOH	-82.60906	28.923673
AAL7676	7/28/2017	0.25	DOH	-82.60906	28.923673
AAL7676	2/22/2019	8.82	DOH	-82.60906	28.923673
AAL7682	11/10/2008	34	DOH	-82.62598	28.973711
AAL7682	1/25/2013	30	DOH	-82.62598	28.973711
AAL7682	4/9/2014	25	DOH	-82.62598	28.973711
AAL7682	6/27/2016	7.29	DOH	-82.62598	28.973711
AAL7682	9/21/2016	4.15	DOH	-82.62598	28.973711
AAL7682	12/12/2016	5.49	DOH	-82.62598	28.973711
AAL7682	6/20/2017	4.03	DOH	-82.62598	28.973711
AAL7682	6/8/2018	30	DOH	-82.62598	28.973711
AAL7682	7/11/2018	27	DOH	-82.62598	28.973711
AAL7682	5/2/2019	24	DOH	-82.62598	28.973711
AAL7691	11/20/2008	11	DOH	-82.61726	28.972621
AAL7691	5/30/2012	48	DOH	-82.61726	28.972621
AAL7691	4/9/2014	16	DOH	-82.61726	28.972621
AAL7691	6/27/2017	8.55	DOH	-82.61726	28.972621
AAM1373	10/1/2008	9.39	DOH	-82.70606	29.029192
AAM1373	1/20/2009	8.10	DOH	-82.70606	29.029192
AAM1373	5/26/2009	8.86	DOH	-82.70606	29.029192
AAM1373	8/10/2009	9.74	DOH	-82.70606	29.029192
AAM1373	2/16/2010	13	DOH	-82.70606	29.029192
AAM1373	6/7/2012	1.10	DOH	-82.70606	29.029192
AAM1373	9/3/2013	7.18	DOH	-82.70606	29.029192
AAM1373	9/16/2014	9.89	DOH	-82.70606	29.029192
AAM1373	2/1/2016	9.46	DOH	-82.70606	29.029192
AAM1373	6/30/2016	13	DOH	-82.70606	29.029192
AAM1373	4/29/2019	11	DOH	-82.70606	29.029192
AAM5501	4/30/2009	7.08	DOH	-82.5915	28.937039
AAM5501	11/16/2018	36	DOH	-82.5915	28.937039
AAM5501	1/30/2019	28	DOH	-82.5915	28.937039
AAM5501	8/2/2019	25	DOH	-82.5915	28.937039
AAM5514	4/3/2009	15	DOH	-82.63042	28.984343
AAM5514	5/1/2012	21	DOH	-82.63042	28.984343
AAM5514	6/27/2017	2.76	DOH	-82.63042	28.984343
AAM5514	9/26/2017	11	DOH	-82.63042	28.984343

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAM5514	12/6/2019	9.21	DOH	-82.63042	28.984343
AAM5524	3/27/2009	28	DOH	-82.62211	28.954006
AAM5524	5/18/2012	24	DOH	-82.62211	28.954006
AAM5524	10/20/2012	30	DOH	-82.62211	28.954006
AAM5524	10/22/2015	1.10	DOH	-82.62211	28.954006
AAM5524	3/30/2016	0.43	DOH	-82.62211	28.954006
AAM5524	6/27/2016	2.32	DOH	-82.62211	28.954006
AAM5524	6/8/2018	24	DOH	-82.62211	28.954006
AAM5534	3/9/2009	15	DOH	-82.59938	28.940357
AAM5534	8/4/2014	1.43	DOH	-82.59938	28.940357
AAM5534	4/16/2015	0.83	DOH	-82.59938	28.940357
AAM5534	6/21/2017	13	DOH	-82.59938	28.940357
AAM5535	3/9/2009	8.62	DOH	-82.59826	28.937731
AAM5535	5/13/2009	5.89	DOH	-82.59826	28.937731
AAM5535	10/13/2010	6.40	DOH	-82.59826	28.937731
AAM5535	11/28/2011	3.43	DOH	-82.59826	28.937731
AAM5536	3/9/2009	50	DOH	-82.62436	28.973665
AAM5536	4/27/2009	35	DOH	-82.62436	28.973665
AAM5536	6/7/2012	43	DOH	-82.62436	28.973665
AAM5536	4/9/2014	38	DOH	-82.62436	28.973665
AAM5536	4/16/2015	34	DOH	-82.62436	28.973665
AAM5536	6/30/2016	6.64	DOH	-82.62436	28.973665
AAM5536	10/5/2016	0.25	DOH	-82.62436	28.973665
AAM5536	6/22/2017	3.57	DOH	-82.62436	28.973665
AAM5536	9/26/2017	3.55	DOH	-82.62436	28.973665
AAM5536	10/26/2018	34	DOH	-82.62436	28.973665
AAM5539	2/27/2009	13	DOH	-82.60894	28.924933
AAM5539	5/13/2009	8.19	DOH	-82.60894	28.924933
AAM5539	11/3/2009	7.73	DOH	-82.60894	28.924933
AAM5539	5/28/2010	7.05	DOH	-82.60894	28.924933
AAM5539	2/24/2011	7.09	DOH	-82.60894	28.924933
AAM5539	11/9/2011	7.18	DOH	-82.60894	28.924933
AAM5539	4/30/2012	8.20	DOH	-82.60894	28.924933
AAM5539	8/28/2014	7.26	DOH	-82.60894	28.924933
AAM5548	2/19/2009	7.72	DOH	-82.6092	28.924424
AAM5548	5/26/2009	9.48	DOH	-82.6092	28.924424
AAM5548	7/15/2009	8.49	DOH	-82.6092	28.924424
AAM5548	11/3/2009	7.78	DOH	-82.6092	28.924424
AAM5548	2/16/2010	7.39	DOH	-82.6092	28.924424
AAM5551	2/17/2009	10	DOH	-82.60019	28.939736
AAM5551	5/13/2009	8.45	DOH	-82.60019	28.939736
AAM5551	11/12/2009	5.27	DOH	-82.60019	28.939736

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAM5551	5/17/2010	1.18	DOH	-82.60019	28.939736
AAM5551	12/30/2014	8.19	DOH	-82.60019	28.939736
AAM5551	12/1/2015	7.63	DOH	-82.60019	28.939736
AAM5551	5/30/2019	8.62	DOH	-82.60019	28.939736
AAM5552	2/17/2009	5.09	DOH	-82.59533	28.938693
AAM5552	1/19/2010	5.25	DOH	-82.59533	28.938693
AAM5552	1/12/2011	4.87	DOH	-82.59533	28.938693
AAM5552	11/16/2018	3.87	DOH	-82.59533	28.938693
AAM5553	2/9/2009	20	DOH	-82.62307	28.970711
AAM5553	4/9/2014	17	DOH	-82.62307	28.970711
AAM5553	6/30/2016	5.03	DOH	-82.62307	28.970711
AAM5553	10/5/2016	0.25	DOH	-82.62307	28.970711
AAM5553	6/22/2017	15	DOH	-82.62307	28.970711
AAM5553	5/13/2020	15	DOH	-82.62307	28.970711
AAM5558	1/15/2009	7.32	DOH	-82.64325	29.00073
AAM5558	5/15/2009	8.09	DOH	-82.64325	29.00073
AAM5558	5/5/2010	7.20	DOH	-82.64325	29.00073
AAM5558	8/5/2010	7.02	DOH	-82.64325	29.00073
AAM5558	10/26/2010	7.36	DOH	-82.64325	29.00073
AAM5558	1/20/2011	7.26	DOH	-82.64325	29.00073
AAM5558	7/15/2011	6.43	DOH	-82.64325	29.00073
AAM5558	1/5/2012	6.28	DOH	-82.64325	29.00073
AAM5558	6/1/2012	6.10	DOH	-82.64325	29.00073
AAM5558	7/22/2015	5.72	DOH	-82.64325	29.00073
AAM5558	7/9/2019	6.72	DOH	-82.64325	29.00073
AAM5565	1/9/2009	8.99	DOH	-82.5992	28.938426
AAM5565	5/13/2009	9.15	DOH	-82.5992	28.938426
AAM5565	8/19/2009	10	DOH	-82.5992	28.938426
AAM5565	10/16/2009	8.62	DOH	-82.5992	28.938426
AAM5565	3/16/2010	7.57	DOH	-82.5992	28.938426
AAM5565	3/11/2011	9.46	DOH	-82.5992	28.938426
AAM5565	7/21/2011	8.02	DOH	-82.5992	28.938426
AAM5565	1/6/2012	8.71	DOH	-82.5992	28.938426
AAM5565	4/24/2012	9.00	DOH	-82.5992	28.938426
AAM5565	8/4/2014	8.73	DOH	-82.5992	28.938426
AAM5565	12/1/2015	8.28	DOH	-82.5992	28.938426
AAM5565	12/14/2016	7.38	DOH	-82.5992	28.938426
AAM5565	3/26/2018	8.19	DOH	-82.5992	28.938426
AAM5565	11/16/2018	9.19	DOH	-82.5992	28.938426
AAM5565	1/30/2019	9.12	DOH	-82.5992	28.938426
AAM5565	5/21/2019	13	DOH	-82.5992	28.938426
AAM5565	6/13/2019	13	DOH	-82.5992	28.938426

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAM5570	12/31/2008	14	DOH	-82.60147	28.935822
AAM5570	7/20/2012	17	DOH	-82.60147	28.935822
AAM5570	9/26/2016	5.44	DOH	-82.60147	28.935822
AAM5570	12/15/2016	1.05	DOH	-82.60147	28.935822
AAM5570	5/1/2017	0.46	DOH	-82.60147	28.935822
AAM5570	9/26/2017	3.69	DOH	-82.60147	28.935822
AAM5584	12/12/2008	8.12	DOH	-82.59615	28.939547
AAM5584	4/30/2009	8.68	DOH	-82.59615	28.939547
AAM5584	8/7/2009	8.84	DOH	-82.59615	28.939547
AAM5584	10/16/2009	7.71	DOH	-82.59615	28.939547
AAM5584	1/19/2010	7.25	DOH	-82.59615	28.939547
AAM5584	4/28/2010	7.92	DOH	-82.59615	28.939547
AAM5584	7/22/2010	9.51	DOH	-82.59615	28.939547
AAM5584	9/3/2014	7.23	DOH	-82.59615	28.939547
AAM5584	9/26/2016	9.45	DOH	-82.59615	28.939547
AAM5584	1/23/2017	1.46	DOH	-82.59615	28.939547
AAM5584	6/27/2017	9.97	DOH	-82.59615	28.939547
AAM5584	9/26/2017	5.73	DOH	-82.59615	28.939547
AAM5584	11/16/2018	25	DOH	-82.59615	28.939547
AAM5584	1/30/2019	17	DOH	-82.59615	28.939547
AAM5584	8/2/2019	8.16	DOH	-82.59615	28.939547
AAM5584	10/29/2019	7.11	DOH	-82.59615	28.939547
AAM6801	10/5/2009	7.66	DOH	-82.59915	28.929532
AAM6801	1/19/2010	7.56	DOH	-82.59915	28.929532
AAM6801	5/17/2010	5.33	DOH	-82.59915	28.929532
AAM6801	6/9/2011	8.46	DOH	-82.59915	28.929532
AAM6801	8/5/2011	8.63	DOH	-82.59915	28.929532
AAM6801	11/10/2011	10	DOH	-82.59915	28.929532
AAM6801	2/28/2012	10	DOH	-82.59915	28.929532
AAM6801	4/24/2012	9.60	DOH	-82.59915	28.929532
AAM6801	7/13/2012	12	DOH	-82.59915	28.929532
AAM6801	9/26/2017	0.25	DOH	-82.59915	28.929532
AAM6811	9/16/2009	10	DOH	-82.6025	28.930325
AAM6811	12/14/2009	3.95	DOH	-82.6025	28.930325
AAM6811	3/16/2010	8.33	DOH	-82.6025	28.930325
AAM6811	7/25/2012	8.00	DOH	-82.6025	28.930325
AAM6811	8/23/2013	8.39	DOH	-82.6025	28.930325
AAM6811	9/29/2014	9.39	DOH	-82.6025	28.930325
AAM6811	12/1/2015	4.15	DOH	-82.6025	28.930325
AAM6811	5/16/2018	9.67	DOH	-82.6025	28.930325
AAM6811	8/20/2018	8.67	DOH	-82.6025	28.930325
AAM6811	11/30/2018	8.94	DOH	-82.6025	28.930325

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAM6811	1/30/2019	9.99	DOH	-82.6025	28.930325
AAM6811	5/2/2019	9.99	DOH	-82.6025	28.930325
AAM6811	7/23/2019	9.33	DOH	-82.6025	28.930325
AAM6825	8/28/2009	6.81	DOH	-82.64764	29.007414
AAM6825	8/13/2010	3.75	DOH	-82.64764	29.007414
AAM6825	4/26/2012	6.60	DOH	-82.64764	29.007414
AAM6825	7/10/2017	4.29	DOH	-82.64764	29.007414
AAM6826	8/28/2009	5.05	DOH	-82.64151	29.006942
AAM6826	7/29/2010	11	DOH	-82.64151	29.006942
AAM6826	5/5/2014	4.58	DOH	-82.64151	29.006942
AAM6826	9/4/2015	19	DOH	-82.64151	29.006942
AAM6826	10/26/2018	9.69	DOH	-82.64151	29.006942
AAM6827	8/27/2009	7.70	DOH	-82.62566	28.986529
AAM6827	10/16/2009	8.43	DOH	-82.62566	28.986529
AAM6827	2/4/2010	9.69	DOH	-82.62566	28.986529
AAM6827	5/10/2010	13	DOH	-82.62566	28.986529
AAM6827	8/6/2010	9.04	DOH	-82.62566	28.986529
AAM6827	2/23/2011	12	DOH	-82.62566	28.986529
AAM6827	6/27/2017	8.87	DOH	-82.62566	28.986529
AAM6827	3/1/2018	8.55	DOH	-82.62566	28.986529
AAM6827	8/1/2018	8.68	DOH	-82.62566	28.986529
AAM6829	8/24/2009	16	DOH	-82.62234	28.987179
AAM6829	7/9/2012	15	DOH	-82.62234	28.987179
AAM6829	6/20/2017	12	DOH	-82.62234	28.987179
AAM6829	4/10/2020	12	DOH	-82.62234	28.987179
AAM6835	8/19/2009	10	DOH	-82.62367	28.98634
AAM6835	10/16/2009	29	DOH	-82.62367	28.98634
AAM6835	5/7/2014	17	DOH	-82.62367	28.98634
AAM6835	6/30/2016	15	DOH	-82.62367	28.98634
AAM6844	8/11/2009	5.85	DOH	-82.59332	28.94217
AAM6844	7/22/2010	6.53	DOH	-82.59332	28.94217
AAM6844	7/15/2011	6.37	DOH	-82.59332	28.94217
AAM6844	8/21/2013	6.06	DOH	-82.59332	28.94217
AAM6844	5/1/2018	6.72	DOH	-82.59332	28.94217
AAM6846	8/10/2009	5.88	DOH	-82.60573	28.941484
AAM6846	7/30/2010	9.29	DOH	-82.60573	28.941484
AAM6846	10/8/2010	4.92	DOH	-82.60573	28.941484
AAM6846	12/6/2011	6.40	DOH	-82.60573	28.941484
AAM6846	8/15/2013	0.85	DOH	-82.60573	28.941484
AAM6846	2/1/2016	0.44	DOH	-82.60573	28.941484
AAM6849	8/4/2009	12	DOH	-82.61886	28.985642
AAM6849	7/9/2012	10	DOH	-82.61886	28.985642

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAM6849	8/8/2014	24	DOH	-82.61886	28.985642
AAM6849	9/21/2016	13	DOH	-82.61886	28.985642
AAM6849	7/19/2019	12	DOH	-82.61886	28.985642
AAM6867	7/24/2009	21	DOH	-82.60615	28.933715
AAM6867	5/24/2012	7.10	DOH	-82.60615	28.933715
AAM6867	8/4/2014	1.57	DOH	-82.60615	28.933715
AAM6867	12/1/2015	1.03	DOH	-82.60615	28.933715
AAM6867	3/30/2016	1.36	DOH	-82.60615	28.933715
AAM6867	6/27/2017	4.75	DOH	-82.60615	28.933715
AAM6868	7/24/2009	5.82	DOH	-82.60711	28.93347
AAM6868	7/30/2010	6.42	DOH	-82.60711	28.93347
AAM6868	7/14/2011	5.78	DOH	-82.60711	28.93347
AAM6868	8/15/2013	3.00	DOH	-82.60711	28.93347
AAM6869	7/22/2009	9.29	DOH	-82.62098	28.970647
AAM6869	1/11/2010	6.97	DOH	-82.62098	28.970647
AAM6869	5/10/2010	8.13	DOH	-82.62098	28.970647
AAM6869	7/12/2010	7.44	DOH	-82.62098	28.970647
AAM6869	3/11/2011	7.03	DOH	-82.62098	28.970647
AAM6869	10/17/2011	8.92	DOH	-82.62098	28.970647
AAM6869	2/8/2012	7.45	DOH	-82.62098	28.970647
AAM6869	4/30/2012	7.10	DOH	-82.62098	28.970647
AAM6869	10/29/2012	8.80	DOH	-82.62098	28.970647
AAM6869	11/8/2013	7.18	DOH	-82.62098	28.970647
AAM6869	10/9/2014	7.63	DOH	-82.62098	28.970647
AAM6869	2/1/2016	7.02	DOH	-82.62098	28.970647
AAM7611	10/20/2009	37	DOH	-82.61512	28.995755
AAM7611	5/1/2012	36	DOH	-82.61512	28.995755
AAM7611	1/31/2014	36	DOH	-82.61512	28.995755
AAM7611	7/22/2015	32	DOH	-82.61512	28.995755
AAM7611	9/21/2016	45	DOH	-82.61512	28.995755
AAM7611	9/27/2017	28	DOH	-82.61512	28.995755
AAM7612	10/20/2009	16	DOH	-82.61691	28.993902
AAM7612	5/1/2012	6.10	DOH	-82.61691	28.993902
AAM7612	8/17/2015	8.52	DOH	-82.61691	28.993902
AAM7612	9/21/2016	5.09	DOH	-82.61691	28.993902
AAM7612	10/26/2016	10	DOH	-82.61691	28.993902
AAM7612	6/20/2017	6.17	DOH	-82.61691	28.993902
AAM7612	9/27/2017	4.06	DOH	-82.61691	28.993902
AAM7612	10/26/2018	6.53	DOH	-82.61691	28.993902
AAM7612	10/20/2020	7.19	DOH	-82.61691	28.993902
AAM7613	10/20/2009	9.35	DOH	-82.61791	28.993299
AAM7613	1/14/2010	7.12	DOH	-82.61791	28.993299

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAM7613	5/28/2010	9.32	DOH	-82.61791	28.993299
AAM7613	3/11/2011	8.05	DOH	-82.61791	28.993299
AAM7613	10/25/2011	7.29	DOH	-82.61791	28.993299
AAM7613	5/1/2012	9.30	DOH	-82.61791	28.993299
AAM7613	9/16/2013	0.69	DOH	-82.61791	28.993299
AAM7613	11/7/2013	8.89	DOH	-82.61791	28.993299
AAM7613	10/15/2014	9.42	DOH	-82.61791	28.993299
AAM7613	2/1/2016	3.80	DOH	-82.61791	28.993299
AAM7613	7/10/2017	8.20	DOH	-82.61791	28.993299
AAM7613	3/1/2018	8.53	DOH	-82.61791	28.993299
AAM7613	4/9/2018	8.17	DOH	-82.61791	28.993299
AAM7613	8/1/2018	7.94	DOH	-82.61791	28.993299
AAM7613	10/26/2018	8.57	DOH	-82.61791	28.993299
AAM7620	10/27/2009	27	DOH	-82.62743	28.984268
AAM7620	5/1/2012	31	DOH	-82.62743	28.984268
AAM7620	6/27/2017	23	DOH	-82.62743	28.984268
AAM7620	5/2/2019	24	DOH	-82.62743	28.984268
AAM7638	11/17/2009	13	DOH	-82.6283	28.999181
AAM7638	5/1/2012	11	DOH	-82.6283	28.999181
AAM7638	3/29/2016	6.04	DOH	-82.6283	28.999181
AAM7638	6/30/2016	9.43	DOH	-82.6283	28.999181
AAM7638	10/28/2016	8.58	DOH	-82.6283	28.999181
AAM7638	6/27/2017	9.12	DOH	-82.6283	28.999181
AAM7638	3/1/2018	9.73	DOH	-82.6283	28.999181
AAM7638	8/1/2018	9.78	DOH	-82.6283	28.999181
AAM7638	2/1/2019	10	DOH	-82.6283	28.999181
AAM7640	11/17/2009	7.41	DOH	-82.62884	28.986918
AAM7640	5/10/2010	0.44	DOH	-82.62884	28.986918
AAM7640	10/18/2010	3.66	DOH	-82.62884	28.986918
AAM7640	5/21/2019	6.46	DOH	-82.62884	28.986918
AAM7642	11/18/2009	29	DOH	-82.61927	28.987632
AAM7642	7/26/2012	18	DOH	-82.61927	28.987632
AAM7642	3/1/2018	26	DOH	-82.61927	28.987632
AAM7642	3/23/2020	42	DOH	-82.61927	28.987632
AAM7642	7/30/2020	19	DOH	-82.61927	28.987632
AAM7642	11/2/2020	20	DOH	-82.61927	28.987632
AAM7647	12/8/2009	33	DOH	-82.61609	28.993291
AAM7647	6/8/2012	27	DOH	-82.61609	28.993291
AAM7647	3/29/2016	38	DOH	-82.61609	28.993291
AAM7647	6/27/2017	37	DOH	-82.61609	28.993291
AAM7647	6/27/2018	33	DOH	-82.61609	28.993291
AAM7647	9/24/2018	35	DOH	-82.61609	28.993291

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAM7647	7/19/2019	32	DOH	-82.61609	28.993291
AAM7647	8/28/2020	31	DOH	-82.61609	28.993291
AAM7649	12/10/2009	9.33	DOH	-82.61886	29.005345
AAM7649	2/4/2010	8.54	DOH	-82.61886	29.005345
AAM7649	5/28/2010	2.19	DOH	-82.61886	29.005345
AAM7649	4/7/2011	1.98	DOH	-82.61886	29.005345
AAM7649	8/15/2013	2.09	DOH	-82.61886	29.005345
AAM7649	8/17/2015	1.65	DOH	-82.61886	29.005345
AAM7652	12/14/2009	47	DOH	-82.61509	28.99417
AAM7652	1/25/2013	55	DOH	-82.61509	28.99417
AAM7652	8/1/2013	34	DOH	-82.61509	28.99417
AAM7652	10/9/2014	48	DOH	-82.61509	28.99417
AAM7652	2/1/2016	40	DOH	-82.61509	28.99417
AAM7652	7/10/2017	18	DOH	-82.61509	28.99417
AAM7667	1/25/2010	18	DOH	-82.6262	28.985397
AAM7667	6/1/2012	15	DOH	-82.6262	28.985397
AAM7667	6/27/2017	17	DOH	-82.6262	28.985397
AAM7667	4/10/2020	18	DOH	-82.6262	28.985397
AAN0228	12/7/2010	9.05	DOH	-82.60077	28.927718
AAN0228	3/7/2011	6.20	DOH	-82.60077	28.927718
AAN0228	1/6/2012	12	DOH	-82.60077	28.927718
AAN0228	3/15/2016	1.96	DOH	-82.60077	28.927718
AAN0228	6/22/2016	13	DOH	-82.60077	28.927718
AAN0605	9/16/2010	8.66	DOH	-82.63869	29.009191
AAN0605	1/20/2011	5.42	DOH	-82.63869	29.009191
AAN0605	1/5/2012	7.00	DOH	-82.63869	29.009191
AAN0605	5/22/2012	7.50	DOH	-82.63869	29.009191
AAN0605	8/8/2014	5.89	DOH	-82.63869	29.009191
AAN0605	6/30/2016	5.24	DOH	-82.63869	29.009191
AAN0605	5/18/2020	5.94	DOH	-82.63869	29.009191
AAN0614	9/3/2010	16	DOH	-82.63674	28.992952
AAN0614	8/29/2014	20	DOH	-82.63674	28.992952
AAN0614	10/5/2016	1.49	DOH	-82.63674	28.992952
AAN0614	5/15/2017	4.15	DOH	-82.63674	28.992952
AAN0614	9/27/2017	8.51	DOH	-82.63674	28.992952
AAN0614	2/19/2018	22	DOH	-82.63674	28.992952
AAN0614	3/24/2020	20	DOH	-82.63674	28.992952
AAN0644	8/6/2010	14	DOH	-82.62641	28.983903
AAN0644	1/7/2013	15	DOH	-82.62641	28.983903
AAN0644	8/15/2013	14	DOH	-82.62641	28.983903
AAN0644	6/22/2017	0.46	DOH	-82.62641	28.983903
AAN0644	8/2/2019	17	DOH	-82.62641	28.983903

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAN0678	5/21/2010	8.28	DOH	-82.62489	29.002575
AAN0678	7/29/2010	8.63	DOH	-82.62489	29.002575
AAN0678	2/24/2011	9.81	DOH	-82.62489	29.002575
AAN0678	6/2/2011	9.78	DOH	-82.62489	29.002575
AAN0678	8/10/2011	8.81	DOH	-82.62489	29.002575
AAN0678	11/7/2011	9.09	DOH	-82.62489	29.002575
AAN0678	11/25/2013	9.95	DOH	-82.62489	29.002575
AAN0678	12/5/2014	10	DOH	-82.62489	29.002575
AAN0678	7/22/2015	2.78	DOH	-82.62489	29.002575
AAN0678	10/26/2016	8.92	DOH	-82.62489	29.002575
AAN0678	5/20/2017	9.68	DOH	-82.62489	29.002575
AAN0678	9/26/2017	11	DOH	-82.62489	29.002575
AAN0678	3/1/2018	9.77	DOH	-82.62489	29.002575
AAN0678	4/9/2018	9.25	DOH	-82.62489	29.002575
AAN0678	8/1/2018	9.59	DOH	-82.62489	29.002575
AAN0678	10/26/2018	9.82	DOH	-82.62489	29.002575
AAN0678	2/1/2019	10	DOH	-82.62489	29.002575
AAN0678	4/29/2019	10	DOH	-82.62489	29.002575
AAN8100	8/16/2011	7.19	DOH	-82.60153	28.992063
AAN8100	10/25/2011	15	DOH	-82.60153	28.992063
AAN8100	8/14/2015	9.87	DOH	-82.60153	28.992063
AAN8100	9/24/2016	18	DOH	-82.60153	28.992063
AAN8100	7/9/2019	8.49	DOH	-82.60153	28.992063
AAN8100	3/24/2020	8.66	DOH	-82.60153	28.992063
AAN8100	8/28/2020	14	DOH	-82.60153	28.992063
AAN8101	8/16/2011	7.57	DOH	-82.59535	28.940719
AAN8101	1/6/2012	7.04	DOH	-82.59535	28.940719
AAN8101	5/9/2012	8.30	DOH	-82.59535	28.940719
AAN8101	3/19/2014	7.88	DOH	-82.59535	28.940719
AAN8101	1/2/2015	7.74	DOH	-82.59535	28.940719
AAN8101	9/26/2016	5.09	DOH	-82.59535	28.940719
AAN8101	8/20/2018	8.37	DOH	-82.59535	28.940719
AAN8101	11/16/2018	8.46	DOH	-82.59535	28.940719
AAN8101	3/1/2019	7.79	DOH	-82.59535	28.940719
AAN8101	5/21/2019	8.76	DOH	-82.59535	28.940719
AAN8101	9/11/2019	8.57	DOH	-82.59535	28.940719
AAN8132	7/22/2011	8.57	DOH	-82.62134	28.929609
AAN8132	11/28/2011	8.21	DOH	-82.62134	28.929609
AAN8132	2/10/2012	7.21	DOH	-82.62134	28.929609
AAN8132	5/3/2012	8.30	DOH	-82.62134	28.929609
AAN8132	2/21/2013	8.30	DOH	-82.62134	28.929609
AAN8132	8/31/2015	6.08	DOH	-82.62134	28.929609

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAN8132	10/26/2016	6.55	DOH	-82.62134	28.929609
AAN8133	7/22/2011	8.02	DOH	-82.61937	28.92676
AAN8133	10/24/2011	6.96	DOH	-82.61937	28.92676
AAN8133	2/10/2012	6.11	DOH	-82.61937	28.92676
AAN8133	10/3/2012	6.00	DOH	-82.61937	28.92676
AAN8133	1/19/2016	0.29	DOH	-82.61937	28.92676
AAN8134	7/20/2011	23	DOH	-82.62889	28.974211
AAN8134	9/1/2015	28	DOH	-82.62889	28.974211
AAN8134	2/12/2018	30	DOH	-82.62889	28.974211
AAN8134	1/31/2019	33	DOH	-82.62889	28.974211
AAN8134	4/23/2020	29	DOH	-82.62889	28.974211
AAN8137	7/20/2011	7.18	DOH	-82.62172	28.930026
AAN8137	5/3/2012	6.70	DOH	-82.62172	28.930026
AAN8137	8/8/2014	6.27	DOH	-82.62172	28.930026
AAN8137	9/24/2018	7.65	DOH	-82.62172	28.930026
AAN8137	12/9/2020	6.93	DOH	-82.62172	28.930026
AAN8148	6/16/2011	24	DOH	-82.62298	28.98815
AAN8148	9/1/2015	16	DOH	-82.62298	28.98815
AAN8148	10/9/2018	26	DOH	-82.62298	28.98815
AAN8148	10/20/2020	18	DOH	-82.62298	28.98815
AAN8161	6/2/2011	13	DOH	-82.62768	28.944727
AAN8161	1/19/2016	14	DOH	-82.62768	28.944727
AAN8161	3/2/2018	9.41	DOH	-82.62768	28.944727
AAN8161	2/6/2020	10	DOH	-82.62768	28.944727
AAN8161	8/11/2020	8.85	DOH	-82.62768	28.944727
AAN8161	11/18/2020	9.17	DOH	-82.62768	28.944727
AAN8173	4/29/2011	12	DOH	-82.62662	28.933328
AAN8173	5/23/2011	5.58	DOH	-82.62662	28.933328
AAN8173	10/17/2011	8.72	DOH	-82.62662	28.933328
AAN8173	2/10/2012	5.73	DOH	-82.62662	28.933328
AAN8173	5/3/2012	8.60	DOH	-82.62662	28.933328
AAN8173	8/15/2013	13	DOH	-82.62662	28.933328
AAN8173	8/8/2014	8.13	DOH	-82.62662	28.933328
AAN8173	12/29/2014	12	DOH	-82.62662	28.933328
AAN8173	3/7/2018	12	DOH	-82.62662	28.933328
AAN8173	4/9/2018	8.62	DOH	-82.62662	28.933328
AAN8173	8/20/2018	4.32	DOH	-82.62662	28.933328
AAN8173	12/10/2018	3.27	DOH	-82.62662	28.933328
AAN8173	3/18/2019	4.04	DOH	-82.62662	28.933328
AAN8173	6/7/2019	2.90	DOH	-82.62662	28.933328
AAN8173	9/12/2019	5.07	DOH	-82.62662	28.933328
AAN8173	12/17/2019	3.95	DOH	-82.62662	28.933328

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAN8173	3/26/2020	4.91	DOH	-82.62662	28.933328
AAN8173	6/24/2020	4.26	DOH	-82.62662	28.933328
AAN8173	9/29/2020	3.99	DOH	-82.62662	28.933328
AAO0309	2/9/2012	13	DOH	-82.59743	28.993306
AAO0309	8/18/2015	12	DOH	-82.59743	28.993306
AAO0309	9/24/2018	28	DOH	-82.59743	28.993306
AAO0309	11/16/2020	12	DOH	-82.59743	28.993306
AAO0330	3/26/2012	17	DOH	-82.60267	28.990566
AAO0330	9/24/2016	16	DOH	-82.60267	28.990566
AAO0330	7/25/2018	22	DOH	-82.60267	28.990566
AAO0330	7/27/2020	19	DOH	-82.60267	28.990566
AAO0366	7/26/2012	8.30	DOH	-82.62261	28.933654
AAO0366	10/3/2012	2.40	DOH	-82.62261	28.933654
AAO0366	2/21/2013	4.40	DOH	-82.62261	28.933654
AAO0366	8/15/2013	2.47	DOH	-82.62261	28.933654
AAO0388	8/16/2012	8.30	DOH	-82.61352	28.931614
AAO0388	9/25/2012	5.90	DOH	-82.61352	28.931614
AAO0388	2/1/2013	5.70	DOH	-82.61352	28.931614
AAO0388	8/2/2013	8.04	DOH	-82.61352	28.931614
AAO0388	1/19/2016	3.88	DOH	-82.61352	28.931614
AAO0390	8/20/2012	8.10	DOH	-82.61128	28.931091
AAO0390	10/12/2012	7.60	DOH	-82.61128	28.931091
AAO0390	2/1/2013	5.90	DOH	-82.61128	28.931091
AAO0390	8/2/2013	4.24	DOH	-82.61128	28.931091
AAO0390	2/1/2016	3.23	DOH	-82.61128	28.931091
AAO0392	8/29/2012	12	DOH	-82.6264	28.989003
AAO0392	5/7/2014	10	DOH	-82.6264	28.989003
AAO0392	7/22/2015	8.94	DOH	-82.6264	28.989003
AAO0392	9/24/2016	13	DOH	-82.6264	28.989003
AAO0392	8/2/2019	15	DOH	-82.6264	28.989003
AAO0397	9/10/2012	14	DOH	-82.62643	28.986539
AAO0397	5/7/2014	9.19	DOH	-82.62643	28.986539
AAO0397	8/14/2015	9.95	DOH	-82.62643	28.986539
AAO0397	9/24/2016	8.53	DOH	-82.62643	28.986539
AAO0397	7/10/2017	7.52	DOH	-82.62643	28.986539
AAO0397	2/19/2018	8.74	DOH	-82.62643	28.986539
AAO0397	8/1/2018	8.53	DOH	-82.62643	28.986539
AAO0397	7/22/2020	6.49	DOH	-82.62643	28.986539
AAO1021	8/25/2011	21	DOH	-82.63524	28.990646
AAO1021	5/7/2015	19	DOH	-82.63524	28.990646
AAO1021	8/1/2018	20	DOH	-82.63524	28.990646
AAO1021	7/22/2020	28	DOH	-82.63524	28.990646

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAO1049	8/31/2011	8.51	DOH	-82.59768	29.003671
AAO1049	11/3/2011	7.31	DOH	-82.59768	29.003671
AAO1049	3/1/2012	6.80	DOH	-82.59768	29.003671
AAO1049	5/31/2012	9.60	DOH	-82.59768	29.003671
AAO1049	9/21/2012	5.60	DOH	-82.59768	29.003671
AAO1049	7/25/2018	8.31	DOH	-82.59768	29.003671
AAO1049	10/9/2018	4.26	DOH	-82.59768	29.003671
AAO1049	2/1/2019	6.69	DOH	-82.59768	29.003671
AAO1049	4/29/2019	9.40	DOH	-82.59768	29.003671
AAO1049	7/19/2019	4.94	DOH	-82.59768	29.003671
AAO1049	3/24/2020	5.60	DOH	-82.59768	29.003671
AAO1049	8/28/2020	8.09	DOH	-82.59768	29.003671
AAO1051	8/31/2011	12	DOH	-82.59788	29.005617
AAO1051	3/22/2013	10	DOH	-82.59788	29.005617
AAO1051	2/17/2016	6.22	DOH	-82.59788	29.005617
AAO1051	6/30/2016	106	DOH	-82.59788	29.005617
AAO1051	9/29/2016	9.35	DOH	-82.59788	29.005617
AAO1051	7/10/2017	8.75	DOH	-82.59788	29.005617
AAO1051	3/1/2018	5.86	DOH	-82.59788	29.005617
AAO1051	4/9/2018	6.03	DOH	-82.59788	29.005617
AAO1051	7/25/2018	4.85	DOH	-82.59788	29.005617
AAO1051	10/9/2018	4.27	DOH	-82.59788	29.005617
AAO1051	2/1/2019	4.49	DOH	-82.59788	29.005617
AAO1051	4/29/2019	5.16	DOH	-82.59788	29.005617
AAO1051	7/23/2019	6.73	DOH	-82.59788	29.005617
AAO1051	11/18/2019	5.41	DOH	-82.59788	29.005617
AAO1051	3/24/2020	4.93	DOH	-82.59788	29.005617
AAO1082	8/22/2011	9.18	DOH	-82.6363	28.989659
AAO1082	10/25/2011	7.74	DOH	-82.6363	28.989659
AAO1082	5/22/2012	11	DOH	-82.6363	28.989659
AAO1082	5/7/2014	9.40	DOH	-82.6363	28.989659
AAO1082	8/18/2015	8.50	DOH	-82.6363	28.989659
AAO1082	10/5/2016	1.10	DOH	-82.6363	28.989659
AAO1082	6/20/2017	9.36	DOH	-82.6363	28.989659
AAO1082	3/1/2018	9.38	DOH	-82.6363	28.989659
AAO1082	8/1/2018	9.35	DOH	-82.6363	28.989659
AAO1082	2/4/2019	9.05	DOH	-82.6363	28.989659
AAO1082	9/24/2019	8.46	DOH	-82.6363	28.989659
AAO1082	3/25/2020	11	DOH	-82.6363	28.989659
AAO1094	8/17/2011	20	DOH	-82.60157	28.990923
AAO1094	7/23/2015	1.09	DOH	-82.60157	28.990923
AAO1094	2/1/2016	1.54	DOH	-82.60157	28.990923

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAO1094	6/30/2016	0.57	DOH	-82.60157	28.990923
AAO1094	9/24/2016	0.30	DOH	-82.60157	28.990923
AAO1094	9/26/2017	7.56	DOH	-82.60157	28.990923
AAO1094	9/24/2018	20	DOH	-82.60157	28.990923
AAO1094	7/9/2019	0.93	DOH	-82.60157	28.990923
AAO1094	11/18/2019	0.39	DOH	-82.60157	28.990923
AAO1094	3/24/2020	3.18	DOH	-82.60157	28.990923
AAO1094	6/18/2020	0.34	DOH	-82.60157	28.990923
AAO1094	9/22/2020	5.62	DOH	-82.60157	28.990923
AAO1094	11/18/2020	0.37	DOH	-82.60157	28.990923
AAO1095	8/17/2011	37	DOH	-82.60323	28.990311
AAO1095	7/23/2015	23	DOH	-82.60323	28.990311
AAO1095	9/26/2017	1.90	DOH	-82.60323	28.990311
AAO1095	3/7/2018	40	DOH	-82.60323	28.990311
AAO1095	2/1/2019	38	DOH	-82.60323	28.990311
AAO1095	3/25/2020	32	DOH	-82.60323	28.990311
AAO3550	12/9/2011	8.31	DOH	-82.59583	29.000534
AAO3550	1/19/2012	6.98	DOH	-82.59583	29.000534
AAO3550	5/31/2012	4.20	DOH	-82.59583	29.000534
AAO3550	8/27/2013	6.22	DOH	-82.59583	29.000534
AAO3550	9/17/2014	8.14	DOH	-82.59583	29.000534
AAO3550	11/5/2015	8.42	DOH	-82.59583	29.000534
AAO3550	3/30/2016	7.51	DOH	-82.59583	29.000534
AAO3550	6/30/2016	0.30	DOH	-82.59583	29.000534
AAO3550	9/24/2016	4.76	DOH	-82.59583	29.000534
AAO3550	3/1/2018	5.63	DOH	-82.59583	29.000534
AAO3551	12/1/2011	2.10	DOH	-82.63028	28.944232
AAO3551	1/7/2013	5.60	DOH	-82.63028	28.944232
AAO3551	9/20/2013	56	DOH	-82.63028	28.944232
AAO3551	8/11/2014	0.25	DOH	-82.63028	28.944232
AAO3551	7/23/2015	68	DOH	-82.63028	28.944232
AAO3551	1/6/2016	0.093	DOH	-82.63028	28.944232
AAO3551	4/5/2016	0.25	DOH	-82.63028	28.944232
AAO3551	7/28/2017	0.25	DOH	-82.63028	28.944232
AAO3551	8/20/2018	1.95	DOH	-82.63028	28.944232
AAO3584	10/13/2011	51	DOH	-82.62688	28.99822
AAO3584	11/7/2011	47	DOH	-82.62688	28.99822
AAO3584	6/10/2013	19	DOH	-82.62688	28.99822
AAO3584	9/17/2013	0.38	DOH	-82.62688	28.99822
AAO3584	11/7/2013	61	DOH	-82.62688	28.99822
AAO3584	1/15/2014	39	DOH	-82.62688	28.99822
AAO3584	9/17/2014	52	DOH	-82.62688	28.99822

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAO3584	7/22/2015	63	DOH	-82.62688	28.99822
AAO3584	2/1/2016	44	DOH	-82.62688	28.99822
AAO3584	6/23/2017	30	DOH	-82.62688	28.99822
AAO3584	11/21/2017	4.71	DOH	-82.62688	28.99822
AAO3584	3/7/2018	14	DOH	-82.62688	28.99822
AAO3584	6/27/2018	14	DOH	-82.62688	28.99822
AAO3584	9/20/2018	15	DOH	-82.62688	28.99822
AAO3584	12/20/2018	16	DOH	-82.62688	28.99822
AAO3584	4/2/2019	17	DOH	-82.62688	28.99822
AAO3584	7/9/2019	16	DOH	-82.62688	28.99822
AAO3584	10/14/2019	16	DOH	-82.62688	28.99822
AAO3584	2/6/2020	19	DOH	-82.62688	28.99822
AAO3584	5/13/2020	5.02	DOH	-82.62688	28.99822
AAO3584	8/28/2020	5.08	DOH	-82.62688	28.99822
AAO3584	12/3/2020	1.14	DOH	-82.62688	28.99822
AAO3585	10/13/2011	27	DOH	-82.60292	28.988619
AAO3585	7/23/2015	13	DOH	-82.60292	28.988619
AAO3585	7/25/2018	3.97	DOH	-82.60292	28.988619
AAO3585	10/9/2018	6.60	DOH	-82.60292	28.988619
AAO3585	1/31/2019	6.97	DOH	-82.60292	28.988619
AAO3585	4/29/2019	7.59	DOH	-82.60292	28.988619
AAO3585	7/19/2019	6.11	DOH	-82.60292	28.988619
AAO3585	12/6/2019	7.01	DOH	-82.60292	28.988619
AAO3585	3/25/2020	4.39	DOH	-82.60292	28.988619
AAO3585	5/13/2020	5.68	DOH	-82.60292	28.988619
AAO3585	9/22/2020	3.28	DOH	-82.60292	28.988619
AAO3585	12/9/2020	3.88	DOH	-82.60292	28.988619
AAO3804	10/5/2011	25	DOH	-82.60367	28.988784
AAO3804	8/14/2015	20	DOH	-82.60367	28.988784
AAO3804	7/25/2018	24	DOH	-82.60367	28.988784
AAO3804	8/5/2020	21	DOH	-82.60367	28.988784
AAO3805	10/5/2011	14	DOH	-82.60531	28.990316
AAO3805	8/14/2015	20	DOH	-82.60531	28.990316
AAO3805	10/15/2018	26	DOH	-82.60531	28.990316
AAO3805	10/20/2020	23	DOH	-82.60531	28.990316
AAO4825	4/10/2015	10	DOH	-82.63709	28.991441
AAO4825	5/7/2015	10	DOH	-82.63709	28.991441
AAO4825	2/1/2016	13	DOH	-82.63709	28.991441
AAO4825	3/29/2016	9.47	DOH	-82.63709	28.991441
AAO4825	5/26/2016	11	DOH	-82.63709	28.991441
AAO4825	7/10/2017	5.28	DOH	-82.63709	28.991441
AAO4825	7/22/2020	10	DOH	-82.63709	28.991441

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAO4844	4/3/2013	10	DOH	-82.63438	28.986978
AAO4844	8/19/2013	9.51	DOH	-82.63438	28.986978
AAO4844	11/8/2013	12	DOH	-82.63438	28.986978
AAO4844	8/8/2014	9.68	DOH	-82.63438	28.986978
AAO4844	8/12/2015	7.40	DOH	-82.63438	28.986978
AAO4844	9/21/2016	11	DOH	-82.63438	28.986978
AAO4844	7/19/2019	10	DOH	-82.63438	28.986978
AAO4844	3/25/2020	9.27	DOH	-82.63438	28.986978
AAO4844	7/22/2020	9.06	DOH	-82.63438	28.986978
AAR1001	12/27/2019	9.77	DOH	-82.59892	28.992647
AAR1001	6/18/2020	8.96	DOH	-82.59892	28.992647
AAR1001	7/30/2020	8.57	DOH	-82.59892	28.992647
AAR1001	11/2/2020	9.28	DOH	-82.59892	28.992647
AAR1004	4/9/2020	9.02	DOH	-82.63252	28.986458
AAR1004	7/22/2020	11	DOH	-82.63252	28.986458
AAR1004	8/28/2020	8.74	DOH	-82.63252	28.986458
AAR1004	12/9/2020	10	DOH	-82.63252	28.986458
AAR1092	5/21/2019	9.75	DOH	-82.64958	29.011892
AAR1092	7/9/2019	9.22	DOH	-82.64958	29.011892
AAR1092	11/18/2019	7.92	DOH	-82.64958	29.011892
AAR1092	3/31/2020	8.75	DOH	-82.64958	29.011892
AAR1092	5/18/2020	7.22	DOH	-82.64958	29.011892
AAR1092	8/5/2020	6.29	DOH	-82.64958	29.011892
AAR1092	11/18/2020	5.92	DOH	-82.64958	29.011892
AAR2446	2/19/2018	17	DOH	-82.63798	28.993108
AAR2446	3/26/2018	17	DOH	-82.63798	28.993108
AAR2446	10/9/2018	22	DOH	-82.63798	28.993108
AAR2446	11/2/2020	20	DOH	-82.63798	28.993108
AAR2450	2/12/2018	14	DOH	-82.61726	28.9726
AAR2450	4/9/2018	2.08	DOH	-82.61726	28.9726
AAR2450	9/24/2018	8.46	DOH	-82.61726	28.9726
AAR2450	11/30/2018	5.74	DOH	-82.61726	28.9726
AAR2450	2/4/2019	18	DOH	-82.61726	28.9726
AAR2450	4/3/2019	1.56	DOH	-82.61726	28.9726
AAR2450	7/19/2019	5.26	DOH	-82.61726	28.9726
AAR2450	12/16/2019	1.94	DOH	-82.61726	28.9726
AAR2450	3/25/2020	7.58	DOH	-82.61726	28.9726
AAR2450	5/18/2020	8.60	DOH	-82.61726	28.9726
AAR2450	11/2/2020	1.70	DOH	-82.61726	28.9726
AAR2563	11/16/2018	10	DOH	-82.60923	28.923953
AAR2563	3/1/2019	9.36	DOH	-82.60923	28.923953
AAR2563	5/21/2019	11	DOH	-82.60923	28.923953

Table F-2
Regional Arsenic Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAR2563	6/13/2019	11	DOH	-82.60923	28.923953
AAR2563	3/24/2020	12	DOH	-82.60923	28.923953

Notes:

1. The arsenic concentration is the maximum of any replicates from the same date and location.

DOH - Florida Department of Health

DEP - Florida Department of Environmental Protection

µg/L - micrograms per liter

Table F-3
Regional Iron Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Locaiton ID	Sample Date	Iron Concentration (mg/L)	Source	Longitude	Latitude
6092326	7/30/2009	0.11	DEP	-82.61978	28.946827
6092326	7/30/2012	0.085	DEP	-82.61978	28.946827
6092326	9/3/2015	0.13	DEP	-82.61978	28.946827
6092326	8/13/2018	0.149	DEP	-82.61978	28.946827
6094523	3/8/2010	0.33	DEP	-82.6217	28.95517
6094523	5/21/2012	0.31	DEP	-82.6217	28.95517
6094523	8/19/2015	0.29	DEP	-82.6217	28.95517
6095093	3/2/2018	0.59	DEP	-82.67224	28.966194
6095093	5/22/2018	0.066	DEP	-82.67224	28.966194
6095093	8/7/2018	0.89	DEP	-82.67224	28.966194
AAC1483 6092331	2/29/2012	0.17	DEP	-82.67752	29.021309
AAC1483 6092331	9/23/2015	0.054	DEP	-82.67752	29.021309
AAE6717	1/28/2009	2.5	DOH	-82.62737	28.950542
AAE6718 6092186	7/6/2010	0.13	DEP	-82.62419	28.952482
AAK5206	3/7/2018	2.53	DOH	-82.64218	28.988157
AAL3923	7/31/2017	2.58	DOH	-82.62865	28.944314
AAL3955	1/12/2009	4.9	DOH	-82.61642	28.957047
AAL3969	1/28/2009	0.011	DOH	-82.62196	28.954525
AAL3972	1/12/2009	3.4	DOH	-82.62159	28.955292
AAL3976	3/15/2016	0.03	DOH	-82.62465	28.952847
AAL3978	3/15/2016	0.03	DOH	-82.62323	28.953709
AAL7311	1/28/2009	2.8	DOH	-82.63463	28.977833
AAL7355	12/19/2011	0.11	DOH	-82.62672	28.953889
AAL7355	12/19/2011	5.6	DOH	-82.62672	28.953889
AAL7356	10/17/2011	9.6	DOH	-82.62658	28.95299
AAM5536	4/27/2009	2.2	DOH	-82.62436	28.973665
AAM7652	8/1/2013	1.79	DOH	-82.61509	28.99417
AAN0228	3/15/2016	3.79	DOH	-82.60077	28.927718
AAO1050	2/17/2016	1.45	DOH	-82.59743	29.001738
AAO1051	2/17/2016	3.76	DOH	-82.59788	29.005617
AAO1051	9/29/2016	14.9	DOH	-82.59788	29.005617
AAO3551	8/11/2014	1.56	DOH	-82.63028	28.944232
AAO3584	11/7/2011	5.7	DOH	-82.62688	28.99822
AAO3584	6/10/2013	4.3	DOH	-82.62688	28.99822
AAO3584	9/17/2013	0.03	DOH	-82.62688	28.99822
AAO3584	1/15/2014	5.64	DOH	-82.62688	28.99822
AAO4816	3/15/2016	3.01	DOH	-82.62328	28.987259
AAO4817	3/15/2016	0.17	DOH	-82.63339	28.984699
AAR1439	3/26/2018	0.03	DOH	-82.59194	28.971452
MW-2	11/1/2017	2.56	Site Baseline	--	--
MW-3	11/1/2017	0.383	Site Baseline	--	--
MW-4	11/1/2017	0.0514	Site Baseline	--	--
MWB-1	11/1/2017	0.336	Site Baseline	--	--

Notes:

1. The manganese concentration is the maximum of any replicates from the same date and location.

DOH - Florida Department of Health

DEP - Florida Department of Environmental Protection

mg/L - milligrams per liter

Table F-4
Regional Manganese Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Manganese Concentration (mg/L) ¹	Source	Longitude	Latitude
6092326	9/3/2015	0.0088	DEP	-82.67752	29.021309
6092326	8/13/2018	0.0156	DEP	-82.67752	29.021309
6092326	7/30/2009	0.0059	DEP	-82.43117	28.962866
6092326	7/30/2012	0.0078	DEP	-82.43117	28.962866
6092331	8/13/2018	0.0142	DEP	-82.55457	28.888038
6094523	8/19/2015	0.01	DEP	-82.6217	28.95517
6094523	3/8/2010	0.012	DEP	-82.5241	28.8555
6094523	5/21/2012	0.0095	DEP	-82.5241	28.8555
6095093	3/2/2018	0.023	DEP	-82.67224	28.966194
6095093	5/22/2018	0.0098	DEP	-82.67224	28.966194
6095093	8/7/2018	0.035	DEP	-82.67224	28.966194
AAC1483 6092331	2/29/2012	0.012	DEP	-82.55457	28.888038
AAC1483 6092331	9/23/2015	0.021	DEP	-82.55457	28.888038
AAC3507 6091816	4/30/2018	0.0058	DEP	-82.62419	28.952482
AAC3507 6091816	2/17/2009	0.0016	DEP	-81.74335	27.984161
AAC3507 6091816	2/29/2012	0.0019	DEP	-81.74335	27.984161
AAC3507 6091816	4/8/2015	0.0059	DEP	-81.74335	27.984161
AAE6717	1/28/2009	0.034	DOH	-82.62737	28.950542
AAE6718 6092186	7/6/2010	0.0032	DEP	-82.62419	28.952482
AAL3955	1/12/2009	0.078	DOH	-82.61642	28.957047
AAL3969	1/28/2009	0.022	DOH	-82.62196	28.954525
AAL3972	1/12/2009	0.052	DOH	-82.62159	28.955292
AAL3976	3/15/2016	0.0011	DOH	-82.62465	28.952847
AAL3978	3/15/2016	0.0117	DOH	-82.62323	28.953709
AAL7311	1/28/2009	0.02	DOH	-82.63463	28.977833
AAL7356	10/17/2011	0.12	DOH	-82.62658	28.95299
AAM5536	4/27/2009	0.059	DOH	-82.62436	28.973665
AAN0228	3/15/2016	0.0525	DOH	-82.60077	28.927718
AAO1050	2/17/2016	0.234	DOH	-82.59743	29.001738
AAO1051	2/17/2016	0.101	DOH	-82.59788	29.005617
AAO4816	3/15/2016	0.0389	DOH	-82.62328	28.987259
AAO4817	3/15/2016	0.0088	DOH	-82.63339	28.984699
AAR1439	3/26/2018	0.001	DOH	-82.59194	28.971452
MWB-1	11/1/2017	0.0489	Site Baseline	--	--
MW-2	11/1/2017	0.0713	Site Baseline	--	--
MW-3	11/1/2017	0.0937	Site Baseline	--	--
MW-4	11/1/2017	0.107	Site Baseline	--	--

Notes:

1. The manganese concentration is the maximum of any replicates from the same date and location.

DOH - Florida Department of Health

DEP - Florida Department of Environmental Protection

mg/L - milligrams per liter

Table F-5
TDS Background Data From Site Production Wells
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	TDS Concentration (mg/L)¹
Production Well ID 615571	1/31/1982	472
Production Well ID 615571	2/28/1982	264
Production Well ID 615571	3/31/1982	598
Production Well ID 615571	4/30/1982	213
Production Well ID 615571	5/31/1982	252
Production Well ID 615571	6/30/1982	220
Production Well ID 615571	7/31/1982	265
Production Well ID 615571	8/31/1982	244
Production Well ID 615571	9/30/1982	240
Production Well ID 615571	10/31/1982	222
Production Well ID 615571	11/30/1982	189
Production Well ID 615571	12/31/1982	203
Production Well ID 615571	1/31/1983	256
Production Well ID 615571	2/28/1983	255
Production Well ID 615571	5/31/1983	242
Production Well ID 615571	1/31/1984	258
Production Well ID 615571	5/31/1984	247
Production Well ID 615571	9/30/1984	255
Production Well ID 615571	5/31/1985	274
Production Well ID 615571	9/30/1985	276
Production Well ID 615571	5/31/1986	252
Production Well ID 615571	9/4/1986	253
Production Well ID 615571	5/1/1987	249
Production Well ID 615571	9/29/1987	268
Production Well ID 615571	5/5/1988	268
Production Well ID 615571	9/14/1988	287
Production Well ID 615571	5/5/1989	266
Production Well ID 615571	9/6/1989	225
Production Well ID 615571	5/10/1990	225
Production Well ID 615571	9/5/1990	305
Production Well ID 615571	5/2/1991	280
Production Well ID 615571	9/12/1991	235
Production Well ID 615571	5/8/1992	235
Production Well ID 615571	9/2/1992	265
Production Well ID 615571	5/7/1993	260
Production Well ID 615571	10/8/1993	255
Production Well ID 615571	5/30/1994	200
Production Well ID 615571	9/9/1994	230
Production Well ID 615571	5/10/1995	225
Production Well ID 615571	9/11/1996	210
Production Well ID 615571	11/30/1996	218
Production Well ID 615571	2/28/1997	231
Production Well ID 615571	5/31/1997	218
Production Well ID 615571	9/17/1997	255

Table F-5
TDS Background Data From Site Production Wells
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	TDS Concentration (mg/L)¹
Production Well ID 615571	5/14/1998	323
Production Well ID 615571	10/13/1998	230
Production Well ID 615571	9/16/1999	241
Production Well ID 615571	9/7/2000	223
Production Well ID 615571	9/20/2001	230
Production Well ID 615571	5/29/2002	248
Production Well ID 615571	9/19/2002	227
Production Well ID 615571	5/13/2004	250
Production Well ID 615571	5/16/2005	240
Production Well ID 615571	5/26/2006	230
Production Well ID 615571	9/29/2006	200
Production Well ID 615571	5/11/2007	220
Production Well ID 615571	9/26/2007	340
Production Well ID 615571	5/22/2008	250
Production Well ID 615571	9/25/2008	250
Production Well ID 615571	10/3/2008	250
Production Well ID 615571	2/17/2009	260
Production Well ID 615571	5/10/2010	240
Production Well ID 615571	8/12/2010	240
Production Well ID 615571	2/7/2011	260
Production Well ID 615571	5/9/2011	250
Production Well ID 615571	8/17/2011	280
Production Well ID 615571	11/21/2011	190
Production Well ID 615571	2/29/2012	270
Production Well ID 615571	5/10/2012	350
Production Well ID 615571	8/13/2012	320
Production Well ID 615571	11/8/2012	280
Production Well ID 615571	2/12/2013	303
Production Well ID 615571	5/16/2013	327
Production Well ID 615571	8/15/2013	311
Production Well ID 615571	11/15/2013	286
Production Well ID 615571	2/11/2014	297
Production Well ID 615571	5/18/2014	317
Production Well ID 615571	8/12/2014	295
Production Well ID 615571	11/11/2014	290
Production Well ID 615571	2/13/2015	244
Production Well ID 615571	5/13/2015	296
Production Well ID 615571	11/11/2015	287
Production Well ID 615571	2/9/2016	274
Production Well ID 615571	5/18/2016	265
Production Well ID 615571	8/31/2016	265
Production Well ID 615571	11/15/2016	278
Production Well ID 615571	2/14/2017	249
Production Well ID 615571	5/17/2017	241

Table F-5
TDS Background Data From Site Production Wells
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	TDS Concentration (mg/L)¹
Production Well ID 615571	8/21/2017	303
Production Well ID 615571	11/14/2017	267
Production Well ID 615571	2/14/2018	280
Production Well ID 615571	5/15/2018	307
Production Well ID 615571	8/14/2018	263
Production Well ID 615571	11/13/2018	287
Production Well ID 615571	2/12/2019	9.8
Production Well ID 615571	5/8/2019	10
Production Well ID 615571	6/1/2019	10
Production Well ID 615571	11/13/2019	271
Production Well ID 615571	1/15/2020	271
Production Well ID 615571	4/14/2020	271
Production Well ID 615571	11/24/2020	262
Production Well ID 615572	1/31/1982	456
Production Well ID 615572	2/28/1982	259
Production Well ID 615572	3/31/1982	645
Production Well ID 615572	4/30/1982	220
Production Well ID 615572	5/31/1982	233
Production Well ID 615572	6/30/1982	259
Production Well ID 615572	7/31/1982	252
Production Well ID 615572	8/31/1982	236
Production Well ID 615572	9/30/1982	234
Production Well ID 615572	10/31/1982	197
Production Well ID 615572	11/30/1982	183
Production Well ID 615572	12/31/1982	198
Production Well ID 615572	1/31/1983	246
Production Well ID 615572	2/28/1983	230
Production Well ID 615572	5/31/1983	223
Production Well ID 615572	1/31/1984	251
Production Well ID 615572	5/31/1984	236
Production Well ID 615572	9/30/1984	232
Production Well ID 615572	5/31/1985	260
Production Well ID 615572	9/30/1985	255
Production Well ID 615572	5/31/1986	243
Production Well ID 615572	9/4/1986	245
Production Well ID 615572	5/1/1987	230
Production Well ID 615572	9/29/1987	251
Production Well ID 615572	5/5/1988	263
Production Well ID 615572	9/14/1988	292
Production Well ID 615572	5/5/1989	228
Production Well ID 615572	9/6/1989	213
Production Well ID 615572	5/10/1990	220
Production Well ID 615572	9/5/1990	295
Production Well ID 615572	5/2/1991	225

Table F-5
TDS Background Data From Site Production Wells
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	TDS Concentration (mg/L)¹
Production Well ID 615572	9/12/1991	240
Production Well ID 615572	5/8/1992	235
Production Well ID 615572	9/2/1992	255
Production Well ID 615572	5/7/1993	240
Production Well ID 615572	10/8/1993	235
Production Well ID 615572	5/30/1994	185
Production Well ID 615572	9/9/1994	230
Production Well ID 615572	5/10/1995	220
Production Well ID 615572	9/11/1996	225
Production Well ID 615572	9/17/1997	243
Production Well ID 615572	5/14/1998	235
Production Well ID 615572	9/10/1998	235
Production Well ID 615572	9/16/1999	222
Production Well ID 615572	5/25/2000	228
Production Well ID 615572	9/7/2000	210
Production Well ID 615572	9/11/2003	240
Production Well ID 615572	5/16/2005	250
Production Well ID 615572	9/29/2006	190
Production Well ID 615572	5/11/2007	230
Production Well ID 615572	9/26/2007	360
Production Well ID 615572	5/22/2008	260
Production Well ID 615572	9/25/2008	230
Production Well ID 615572	10/3/2008	230
Production Well ID 615572	5/13/2009	280
Production Well ID 615572	8/5/2009	220
Production Well ID 615572	11/9/2009	230
Production Well ID 615572	5/10/2010	240
Production Well ID 615572	8/12/2010	250
Production Well ID 615572	2/7/2011	240
Production Well ID 615572	5/9/2011	260
Production Well ID 615572	8/17/2011	270
Production Well ID 615572	11/21/2011	190
Production Well ID 615572	2/29/2012	240
Production Well ID 615572	5/10/2012	240
Production Well ID 615572	8/13/2012	300
Production Well ID 615572	11/8/2012	270
Production Well ID 615572	2/12/2013	300
Production Well ID 615572	5/16/2013	285
Production Well ID 615572	8/15/2013	283
Production Well ID 615572	2/11/2014	287
Production Well ID 615572	5/18/2014	308
Production Well ID 615572	8/12/2014	300
Production Well ID 615572	11/11/2014	283
Production Well ID 615572	2/28/2015	255

Table F-5
TDS Background Data From Site Production Wells
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	TDS Concentration (mg/L)¹
Production Well ID 615572	5/13/2015	285
Production Well ID 615572	11/11/2015	299
Production Well ID 615572	2/9/2016	271
Production Well ID 615572	5/18/2016	269
Production Well ID 615572	8/31/2016	271
Production Well ID 615572	11/15/2016	265
Production Well ID 615572	2/14/2017	277
Production Well ID 615572	5/17/2017	236
Production Well ID 615572	8/15/2017	226
Production Well ID 615572	11/14/2017	289
Production Well ID 615572	2/14/2018	261
Production Well ID 615572	5/15/2018	308
Production Well ID 615572	8/14/2018	262
Production Well ID 615572	11/13/2018	273
Production Well ID 615572	2/12/2019	9.2
Production Well ID 615572	5/8/2019	9.1
Production Well ID 615572	6/1/2019	9.1
Production Well ID 615572	11/13/2019	280
Production Well ID 615572	1/15/2020	280
Production Well ID 615572	4/14/2020	300
Production Well ID 615572	11/23/2020	274
Production Well ID 615573	1/31/1982	437
Production Well ID 615573	2/28/1982	182
Production Well ID 615573	5/31/1982	239
Production Well ID 615573	6/30/1982	251
Production Well ID 615573	7/31/1982	248
Production Well ID 615573	8/31/1982	236
Production Well ID 615573	9/30/1982	244
Production Well ID 615573	10/31/1982	216
Production Well ID 615573	11/30/1982	202
Production Well ID 615573	12/31/1982	198
Production Well ID 615573	9/1/1983	252
Production Well ID 615573	1/31/1984	249
Production Well ID 615573	5/31/1984	238
Production Well ID 615573	9/30/1984	224
Production Well ID 615573	5/31/1985	253
Production Well ID 615573	9/30/1985	260
Production Well ID 615573	5/1/1987	226
Production Well ID 615573	9/29/1987	239
Production Well ID 615573	5/5/1988	255
Production Well ID 615573	9/14/1988	290
Production Well ID 615573	5/5/1989	222
Production Well ID 615573	9/6/1989	178
Production Well ID 615573	5/10/1990	220

Table F-5
TDS Background Data From Site Production Wells
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	TDS Concentration (mg/L)¹
Production Well ID 615573	9/5/1990	270
Production Well ID 615573	5/2/1991	250
Production Well ID 615573	9/12/1991	215
Production Well ID 615573	5/8/1992	220
Production Well ID 615573	9/2/1992	275
Production Well ID 615573	5/7/1993	250
Production Well ID 615573	10/8/1993	215
Production Well ID 615573	5/30/1994	195
Production Well ID 615573	9/9/1994	225
Production Well ID 615573	5/10/1995	240
Production Well ID 615573	9/11/1996	225
Production Well ID 615573	9/17/1997	233
Production Well ID 615573	5/14/1998	225
Production Well ID 615573	9/10/1998	214
Production Well ID 615573	9/16/1999	230
Production Well ID 615573	5/25/2000	229
Production Well ID 615573	9/20/2001	234
Production Well ID 615573	5/29/2002	229
Production Well ID 615573	10/17/2002	234
Production Well ID 615573	9/11/2003	240
Production Well ID 615573	5/13/2004	240
Production Well ID 615573	5/16/2005	240
Production Well ID 615573	5/26/2006	220
Production Well ID 615573	9/29/2006	190
Production Well ID 615573	5/11/2007	240
Production Well ID 615573	9/25/2007	270
Production Well ID 615573	9/25/2008	230
Production Well ID 615573	10/3/2008	230
Production Well ID 615573	2/17/2009	250
Production Well ID 615573	5/13/2009	290
Production Well ID 615573	8/5/2009	210
Production Well ID 615573	11/9/2009	220
Production Well ID 615573	8/12/2010	240
Production Well ID 615573	2/7/2011	230
Production Well ID 615573	5/9/2011	230
Production Well ID 615573	8/17/2011	260
Production Well ID 615573	11/21/2011	180
Production Well ID 615573	2/29/2012	260
Production Well ID 615573	5/10/2012	230
Production Well ID 615573	8/13/2012	260
Production Well ID 615573	11/8/2012	240
Production Well ID 615573	2/12/2013	262
Production Well ID 615573	5/16/2013	273
Production Well ID 615573	8/15/2013	266

Table F-5
TDS Background Data From Site Production Wells
Citrus Combined Cycle Plant
Cystal River, FL

Location ID	Sample Date	TDS Concentration (mg/L)¹
Production Well ID 615573	11/15/2013	247
Production Well ID 615573	2/11/2014	265
Production Well ID 615573	5/18/2014	310
Production Well ID 615573	8/12/2014	270
Production Well ID 615573	11/11/2014	281
Production Well ID 615573	2/28/2015	241
Production Well ID 615573	5/13/2015	277
Production Well ID 615573	11/11/2015	278
Production Well ID 615573	2/9/2016	253
Production Well ID 615573	5/18/2016	258
Production Well ID 615573	8/31/2016	248
Production Well ID 615573	11/15/2016	251
Production Well ID 615573	2/14/2017	272
Production Well ID 615573	5/17/2017	231
Production Well ID 615573	8/15/2017	251
Production Well ID 615573	11/14/2017	277
Production Well ID 615573	2/14/2018	290
Production Well ID 615573	5/15/2018	271
Production Well ID 615573	8/14/2018	254
Production Well ID 615573	11/13/2018	256
Production Well ID 615573	2/12/2019	7.6
Production Well ID 615573	5/8/2019	7.7
Production Well ID 615573	6/1/2019	7.7
Production Well ID 615573	11/13/2019	270
Production Well ID 615573	1/15/2020	270
Production Well ID 615573	4/14/2020	255
Production Well ID 615573	11/24/2020	237
Production Well ID 615574	1/31/1982	453
Production Well ID 615574	2/28/1982	249
Production Well ID 615574	3/31/1982	580
Production Well ID 615574	4/30/1982	215
Production Well ID 615574	5/31/1982	245
Production Well ID 615574	6/30/1982	258
Production Well ID 615574	7/31/1982	259
Production Well ID 615574	8/31/1982	249
Production Well ID 615574	9/30/1982	241
Production Well ID 615574	10/31/1982	176
Production Well ID 615574	11/30/1982	193
Production Well ID 615574	12/31/1982	211
Production Well ID 615574	1/31/1983	231
Production Well ID 615574	2/28/1983	251
Production Well ID 615574	5/31/1983	220
Production Well ID 615574	9/1/1983	223
Production Well ID 615574	1/31/1984	251

Table F-5
TDS Background Data From Site Production Wells
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	TDS Concentration (mg/L)¹
Production Well ID 615574	5/31/1984	237
Production Well ID 615574	9/30/1984	240
Production Well ID 615574	5/31/1985	255
Production Well ID 615574	9/30/1985	266
Production Well ID 615574	5/31/1986	245
Production Well ID 615574	9/4/1986	252
Production Well ID 615574	5/1/1987	239
Production Well ID 615574	9/29/1987	385
Production Well ID 615574	5/5/1988	260
Production Well ID 615574	9/14/1988	232
Production Well ID 615574	5/5/1989	233
Production Well ID 615574	9/6/1989	202
Production Well ID 615574	5/31/1990	225
Production Well ID 615574	9/5/1990	295
Production Well ID 615574	5/2/1991	235
Production Well ID 615574	9/12/1991	265
Production Well ID 615574	5/8/1992	235
Production Well ID 615574	9/2/1992	285
Production Well ID 615574	5/7/1993	260
Production Well ID 615574	10/8/1993	225
Production Well ID 615574	3/3/1994	245
Production Well ID 615574	5/30/1994	210
Production Well ID 615574	9/9/1994	230
Production Well ID 615574	3/6/1995	305
Production Well ID 615574	9/11/1996	225
Production Well ID 615574	9/17/1997	239
Production Well ID 615574	5/14/1998	227
Production Well ID 615574	9/10/1998	233
Production Well ID 615574	9/16/1999	229
Production Well ID 615574	5/25/2000	229
Production Well ID 615574	9/7/2000	231
Production Well ID 615574	9/20/2001	240
Production Well ID 615574	5/29/2002	240
Production Well ID 615574	9/19/2002	237
Production Well ID 615574	9/11/2003	240
Production Well ID 615574	5/13/2004	240
Production Well ID 615574	5/26/2006	230
Production Well ID 615574	9/29/2006	200
Production Well ID 615574	5/11/2007	230
Production Well ID 615574	5/22/2008	250
Production Well ID 615574	9/25/2008	240
Production Well ID 615574	10/3/2008	240
Production Well ID 615574	2/17/2009	270
Production Well ID 615574	5/13/2009	280

Table F-5
TDS Background Data From Site Production Wells
Citrus Combined Cycle Plant
Cystal River, FL

Location ID	Sample Date	TDS Concentration (mg/L)¹
Production Well ID 615574	5/10/2010	350
Production Well ID 615574	8/12/2010	230
Production Well ID 615574	2/7/2011	250
Production Well ID 615574	5/9/2011	250
Production Well ID 615574	8/17/2011	250
Production Well ID 615574	11/21/2011	180
Production Well ID 615574	2/29/2012	220
Production Well ID 615574	5/10/2012	210
Production Well ID 615574	8/13/2012	250
Production Well ID 615574	11/8/2012	230
Production Well ID 615574	2/12/2013	246
Production Well ID 615574	5/16/2013	256
Production Well ID 615574	8/15/2013	248
Production Well ID 615574	11/15/2013	246
Production Well ID 615574	2/11/2014	246
Production Well ID 615574	5/18/2014	292
Production Well ID 615574	8/12/2014	272
Production Well ID 615574	11/11/2014	269
Production Well ID 615574	2/28/2015	218
Production Well ID 615574	5/13/2015	265
Production Well ID 615574	11/11/2015	260
Production Well ID 615574	2/9/2016	243
Production Well ID 615574	5/18/2016	246
Production Well ID 615574	8/31/2016	247
Production Well ID 615574	11/15/2016	232
Production Well ID 615574	2/14/2017	248
Production Well ID 615574	5/23/2017	268
Production Well ID 615574	8/15/2017	187
Production Well ID 615574	11/14/2017	233
Production Well ID 615574	2/14/2018	269
Production Well ID 615574	5/15/2018	276
Production Well ID 615574	8/14/2018	245
Production Well ID 615574	11/13/2018	249
Production Well ID 615574	2/12/2019	7.3
Production Well ID 615574	5/8/2019	7.9
Production Well ID 615574	6/1/2019	7.9
Production Well ID 615574	11/24/2020	226
Production Well ID 615575	8/12/2010	240
Production Well ID 615575	2/7/2011	230
Production Well ID 615575	5/9/2011	240
Production Well ID 615575	8/17/2011	250
Production Well ID 615575	11/21/2011	190
Production Well ID 615575	2/29/2012	210
Production Well ID 615575	5/10/2012	210

Table F-5
TDS Background Data From Site Production Wells
Citrus Combined Cycle Plant
Cystal River, FL

Location ID	Sample Date	TDS Concentration (mg/L)¹
Production Well ID 615575	8/13/2012	250
Production Well ID 615575	11/8/2012	230
Production Well ID 615575	2/12/2013	251
Production Well ID 615575	5/16/2013	244
Production Well ID 615575	8/15/2013	250
Production Well ID 615575	11/15/2013	238
Production Well ID 615575	2/11/2014	247
Production Well ID 615575	5/18/2014	280
Production Well ID 615575	8/12/2014	272
Production Well ID 615575	11/11/2014	258
Production Well ID 615575	2/28/2015	254
Production Well ID 615575	5/13/2015	266
Production Well ID 615575	11/11/2015	250
Production Well ID 615575	2/9/2016	235
Production Well ID 615575	5/18/2016	242
Production Well ID 615575	8/31/2016	241
Production Well ID 615575	11/15/2016	237
Production Well ID 615575	2/14/2017	245
Production Well ID 615575	5/17/2017	206
Production Well ID 615575	8/15/2017	205
Production Well ID 615575	11/14/2017	244
Production Well ID 615575	2/14/2018	245
Production Well ID 615575	5/15/2018	276
Production Well ID 615575	8/14/2018	237
Production Well ID 615575	11/13/2018	245
Production Well ID 615575	2/12/2019	8
Production Well ID 615575	5/8/2019	7.8
Production Well ID 615575	6/1/2019	7.8
Production Well ID 615575	11/13/2019	257
Production Well ID 615575	1/15/2020	257
Production Well ID 615575	4/14/2020	143
Production Well ID 615575	11/23/2020	233
Production Well ID 615576	2/7/2011	190
Production Well ID 615576	5/9/2011	240
Production Well ID 615576	8/17/2011	230
Production Well ID 615576	11/21/2011	170
Production Well ID 615576	2/29/2012	220
Production Well ID 615576	5/10/2012	210
Production Well ID 615576	8/13/2012	250
Production Well ID 615576	11/8/2012	220
Production Well ID 615576	2/12/2013	238
Production Well ID 615576	5/16/2013	250
Production Well ID 615576	8/15/2013	256
Production Well ID 615576	11/15/2013	237

Table F-5
TDS Background Data From Site Production Wells
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	TDS Concentration (mg/L)¹
Production Well ID 615576	2/11/2014	246
Production Well ID 615576	5/18/2014	258
Production Well ID 615576	8/12/2014	231
Production Well ID 615576	11/11/2014	252
Production Well ID 615576	2/28/2015	239
Production Well ID 615576	5/13/2015	250
Production Well ID 615576	11/11/2015	260
Production Well ID 615576	2/9/2016	235
Production Well ID 615576	5/18/2016	206
Production Well ID 615576	8/31/2016	251
Production Well ID 615576	11/15/2016	250
Production Well ID 615576	2/14/2017	242
Production Well ID 615576	5/17/2017	204
Production Well ID 615576	8/15/2017	10.2
Production Well ID 615576	11/14/2017	252
Production Well ID 615576	2/14/2018	241
Production Well ID 615576	5/15/2018	250
Production Well ID 615576	8/14/2018	233
Production Well ID 615576	11/13/2018	214
Production Well ID 615576	2/12/2019	12.6
Production Well ID 615576	5/8/2019	17
Production Well ID 615576	6/1/2019	17
Production Well ID 615576	11/13/2019	232
Production Well ID 615576	1/15/2020	232
Production Well ID 615576	11/23/2020	205
Production Well ID 615577	8/12/2010	6.9
Production Well ID 615577	2/7/2011	230
Production Well ID 615577	5/9/2011	260
Production Well ID 615577	8/17/2011	250
Production Well ID 615577	11/21/2011	180
Production Well ID 615577	2/29/2012	220
Production Well ID 615577	5/10/2012	220
Production Well ID 615577	8/13/2012	240
Production Well ID 615577	11/8/2012	240
Production Well ID 615577	2/12/2013	252
Production Well ID 615577	5/16/2013	250
Production Well ID 615577	8/15/2013	255
Production Well ID 615577	11/15/2013	233
Production Well ID 615577	2/11/2014	251
Production Well ID 615577	5/18/2014	255
Production Well ID 615577	8/12/2014	262
Production Well ID 615577	11/11/2014	257
Production Well ID 615577	2/28/2015	245
Production Well ID 615577	5/13/2015	242

Table F-5
TDS Background Data From Site Production Wells
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	TDS Concentration (mg/L)¹
Production Well ID 615577	11/11/2015	253
Production Well ID 615577	2/9/2016	247
Production Well ID 615577	5/18/2016	236
Production Well ID 615577	8/31/2016	318
Production Well ID 615577	11/15/2016	226
Production Well ID 615577	2/14/2017	258
Production Well ID 615577	5/17/2017	231
Production Well ID 615577	8/15/2017	239
Production Well ID 615577	11/14/2017	269
Production Well ID 615577	2/14/2018	268
Production Well ID 615577	5/15/2018	239
Production Well ID 615577	8/14/2018	241
Production Well ID 615577	11/13/2018	263
Production Well ID 615577	2/12/2019	8.9
Production Well ID 615577	5/8/2019	9.1
Production Well ID 615577	6/1/2019	9.1
Production Well ID 615577	11/13/2019	252
Production Well ID 615577	1/15/2020	252
Production Well ID 615577	4/14/2020	238
Production Well ID 615577	11/23/2020	237
Production Well ID 723330	5/10/2010	220
Production Well ID 723330	2/7/2011	210
Production Well ID 723330	5/9/2011	230
Production Well ID 723330	8/17/2011	230
Production Well ID 723330	11/21/2011	150
Production Well ID 723330	2/29/2012	200
Production Well ID 723330	5/10/2012	180
Production Well ID 723330	8/13/2012	210
Production Well ID 723330	11/8/2012	210
Production Well ID 723330	2/12/2013	234
Production Well ID 723330	5/16/2013	235
Production Well ID 723330	8/15/2013	236
Production Well ID 723330	11/15/2013	238
Production Well ID 723330	2/11/2014	248
Production Well ID 723330	5/18/2014	249
Production Well ID 723330	8/12/2014	247
Production Well ID 723330	11/11/2014	249
Production Well ID 723330	2/28/2015	214
Production Well ID 723330	5/13/2015	236
Production Well ID 723330	11/11/2015	240
Production Well ID 723330	2/9/2016	235
Production Well ID 723330	5/18/2016	233
Production Well ID 723330	8/31/2016	268
Production Well ID 723330	11/15/2016	209

Table F-5
TDS Background Data From Site Production Wells
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	TDS Concentration (mg/L)¹
Production Well ID 723330	2/14/2017	290
Production Well ID 723330	5/17/2017	207
Production Well ID 723330	8/15/2017	211
Production Well ID 723330	11/14/2017	200
Production Well ID 723330	2/14/2018	257
Production Well ID 723330	5/15/2018	235
Production Well ID 723330	8/14/2018	249
Production Well ID 723330	11/13/2018	234
Production Well ID 723330	2/12/2019	10
Production Well ID 723330	5/8/2019	21.3
Production Well ID 723330	6/1/2019	21.3
Production Well ID 723330	11/13/2019	241
Production Well ID 723330	1/15/2020	241
Production Well ID 723330	4/14/2020	231
Production Well ID 723330	11/24/2020	218
Production Well ID 723331	5/10/2010	230
Production Well ID 723331	8/12/2010	230
Production Well ID 723331	2/7/2011	210
Production Well ID 723331	5/9/2011	230
Production Well ID 723331	8/17/2011	220
Production Well ID 723331	11/21/2011	170
Production Well ID 723331	2/29/2012	210
Production Well ID 723331	5/10/2012	200
Production Well ID 723331	8/13/2012	230
Production Well ID 723331	11/8/2012	230
Production Well ID 723331	2/12/2013	252
Production Well ID 723331	5/16/2013	244
Production Well ID 723331	8/15/2013	249
Production Well ID 723331	11/15/2013	256
Production Well ID 723331	2/11/2014	247
Production Well ID 723331	5/18/2014	246
Production Well ID 723331	8/12/2014	264
Production Well ID 723331	11/11/2014	246
Production Well ID 723331	2/28/2015	247
Production Well ID 723331	5/13/2015	259
Production Well ID 723331	11/11/2015	259
Production Well ID 723331	2/9/2016	228
Production Well ID 723331	5/18/2016	238
Production Well ID 723331	8/31/2016	221
Production Well ID 723331	11/15/2016	223
Production Well ID 723331	2/14/2017	245
Production Well ID 723331	5/17/2017	194
Production Well ID 723331	8/15/2017	221
Production Well ID 723331	11/14/2017	244

Table F-5
TDS Background Data From Site Production Wells
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	TDS Concentration (mg/L)¹
Production Well ID 723331	2/14/2018	263
Production Well ID 723331	8/14/2018	245
Production Well ID 723331	11/13/2018	240
Production Well ID 723331	2/12/2019	9.1
Production Well ID 723331	5/8/2019	9.2
Production Well ID 723331	6/1/2019	9.2
Production Well ID 723331	11/13/2019	252
Production Well ID 723331	1/15/2020	252
Production Well ID 723331	4/14/2020	269
Production Well ID 723331	11/23/2020	217
Production Well ID 723332	5/10/2010	370
Production Well ID 723332	8/12/2010	350
Production Well ID 723332	2/7/2011	350
Production Well ID 723332	5/9/2011	340
Production Well ID 723332	8/17/2011	240
Production Well ID 723332	2/29/2012	310
Production Well ID 723332	5/10/2012	290
Production Well ID 723332	8/13/2012	300
Production Well ID 723332	11/8/2012	300
Production Well ID 723332	2/12/2013	327
Production Well ID 723332	5/16/2013	327
Production Well ID 723332	8/15/2013	304
Production Well ID 723332	11/15/2013	328
Production Well ID 723332	2/11/2014	311
Production Well ID 723332	5/18/2014	318
Production Well ID 723332	8/12/2014	293
Production Well ID 723332	2/28/2015	304
Production Well ID 723332	5/13/2015	343
Production Well ID 723332	11/11/2015	333
Production Well ID 723332	5/18/2016	331
Production Well ID 723332	8/31/2016	227
Production Well ID 723332	11/15/2016	313
Production Well ID 723332	2/14/2017	325
Production Well ID 723332	5/17/2017	289
Production Well ID 723332	8/15/2017	307
Production Well ID 723332	11/14/2017	345
Production Well ID 723332	2/14/2018	303
Production Well ID 723332	5/15/2018	307
Production Well ID 723332	8/14/2018	325
Production Well ID 723332	11/13/2018	295
Production Well ID 723332	2/12/2019	67
Production Well ID 723332	5/8/2019	47.9
Production Well ID 723332	6/1/2019	47.9
Production Well ID 723332	11/13/2019	306

Table F-5
TDS Background Data From Site Production Wells
Citrus Combined Cycle Plant
Cystal River, FL

Location ID	Sample Date	TDS Concentration (mg/L)¹
Production Well ID 723332	1/15/2020	306
Production Well ID 723332	11/23/2020	236

Notes:

1. Where replicate measurments were made on the same date at the same location, the maximum value is used.

mg/L - milligrams per liter

TDS - total dissolved solids

Table F-6
Concentration Data Set from Background Well MWB-1 Used in Statistical Evaluation
Citrus River Combined Cycle Plant
Crystal River, FL

Location	Date	Iron (mg/L)	Manganese (mg/L)	TDS (mg/L)
MWB-1	11/1/2017	0.336	0.0489	356
	2/27/2018	3.05	0.0787	266
	5/17/2018	2.82	0.0799	272
	8/27/2018	3.42	0.102	346
	11/13/2018	3.44	0.0975	762
	02/14/2019	3.6	0.168	840
	05/30/2019	3.38	0.104	332
	08/08/2019	3.8	0.125	342
	10/21/2019	3.6	0.11	354
	02/13/2020	3.26	0.101	442
	04/23/2020	3.3	0.104	360
	07/30/2020	3.34	0.108	424
	10/29/2020	3.21	0.107	388
	02/09/2021	3.23	0.109	328
	04/22/2021	5.94	0.123	352
	07/26/2021	4.30	0.122	342
	10/19/2021	3.57	0.118	368

Notes:

mg/L - milligrams per liter

TDS - total dissolved solids

Table F-7
Regional Arsenic Under 100 Feet, Production Wells, and On-Site Background Wells Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L) ¹	Source	Longitude	Latitude
AAE6718 6092186	2/9/2004	18	DEP	-82.62419	28.952482
AAE6718 6092186	4/4/2007	20	DEP	-82.62419	28.952482
AAE6718 6092186	6/20/2007	16	DEP	-82.62419	28.952482
AAE6718 6092186	7/11/2007	20	DEP	-82.62419	28.952482
AAE6718 6092186	9/5/2007	11	DEP	-82.62419	28.952482
AAE6718 6092186	11/7/2007	19	DEP	-82.62419	28.952482
AAE6718 6092186	3/5/2008	15	DEP	-82.62419	28.952482
AAE6718 6092186	5/21/2008	13	DEP	-82.62419	28.952482
AAE6718 6092186	9/3/2008	18	DEP	-82.62419	28.952482
AAE6718 6092186	2/4/2009	14	DEP	-82.62419	28.952482
AAE6718 6092186	3/3/2009	14	DEP	-82.62419	28.952482
AAE6718 6092186	5/6/2009	39	DEP	-82.62419	28.952482
AAE6718 6092186	8/5/2009	17	DEP	-82.62419	28.952482
AAE6718 6092186	11/3/2009	26	DEP	-82.62419	28.952482
AAE6718 6092186	2/17/2010	2.50	DEP	-82.62419	28.952482
AAE6718 6092186	5/19/2010	3.40	DEP	-82.62419	28.952482
AAE6718 6092186	7/6/2010	3.30	DEP	-82.62419	28.952482
AAE6718 6092186	10/20/2010	3.60	DEP	-82.62419	28.952482
AAE6718 6092186	5/7/2013	1.30	DEP	-82.62419	28.952482
AAE6718 6092186	8/2/2016	1.20	DEP	-82.62419	28.952482
AAE6718 6092186	8/15/2019	1.00	DEP	-82.62419	28.952482
AAL7632	9/15/2008	14.8	DOH	-82.62155	28.983009
AAL7632	7/25/2012	15	DOH	-82.62155	28.983009
AAL7632	3/29/2016	12.8	DOH	-82.62155	28.983009
AAL7632	5/2/2019	11.2	DOH	-82.62155	28.983009
AAL7654	10/6/2008	11.3	DOH	-82.61585	28.987703
AAL7654	5/9/2012	10	DOH	-82.61585	28.987703
AAL7654	2/1/2016	6.91	DOH	-82.61585	28.987703
AAL7654	6/30/2016	13.3	DOH	-82.61585	28.987703
AAL7654	5/2/2019	10.2	DOH	-82.61585	28.987703
AAL7654	12/27/2019	7.95	DOH	-82.61585	28.987703
AAL7654	4/23/2020	10.4	DOH	-82.61585	28.987703
AAM5553	2/9/2009	19.8	DOH	-82.62307	28.970711
AAM5553	4/9/2014	17	DOH	-82.62307	28.970711
AAM5553	6/30/2016	5.03	DOH	-82.62307	28.970711
AAM5553	10/5/2016	0.25	DOH	-82.62307	28.970711
AAM5553	6/22/2017	15.1	DOH	-82.62307	28.970711
AAM5553	5/13/2020	15.1	DOH	-82.62307	28.970711
AAM6869	7/22/2009	9.29	DOH	-82.62098	28.970647
AAM6869	1/11/2010	6.97	DOH	-82.62098	28.970647
AAM6869	5/10/2010	8.13	DOH	-82.62098	28.970647
AAM6869	7/12/2010	7.44	DOH	-82.62098	28.970647

Table F-7
Regional Arsenic Under 100 Feet, Production Wells, and On-Site Background Wells Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
AAM6869	3/11/2011	7.03	DOH	-82.62098	28.970647
AAM6869	10/17/2011	8.92	DOH	-82.62098	28.970647
AAM6869	2/8/2012	7.45	DOH	-82.62098	28.970647
AAM6869	4/30/2012	7.10	DOH	-82.62098	28.970647
AAM6869	10/29/2012	8.80	DOH	-82.62098	28.970647
AAM6869	11/8/2013	7.18	DOH	-82.62098	28.970647
AAM6869	10/9/2014	7.63	DOH	-82.62098	28.970647
AAM6869	2/1/2016	7.02	DOH	-82.62098	28.970647
AAO0309	2/9/2012	13	DOH	-82.59743	28.993306
AAO0309	8/18/2015	11.7	DOH	-82.59743	28.993306
AAO0309	9/24/2018	28.1	DOH	-82.59743	28.993306
AAO0309	11/16/2020	11.5	DOH	-82.59743	28.993306
MWB-1	11/1/2017	3.9	On-Site	--	--
MWB-1	2/27/2018	6.3	On-Site	--	--
MWB-1	5/17/2018	6.6	On-Site	--	--
MWB-1	8/27/2018	7.9	On-Site	--	--
MWB-1	11/13/2018	6.5	On-Site	--	--
MWB-1	02/14/2019	11.4	On-Site	--	--
MWB-1	05/30/2019	6.9	On-Site	--	--
MWB-1	08/08/2019	7.1	On-Site	--	--
MWB-1	10/21/2019	6.7	On-Site	--	--
MWB-1	02/13/2020	5.9	On-Site	--	--
MWB-1	04/23/2020	6.7	On-Site	--	--
MWB-1	07/30/2020	7.3	On-Site	--	--
MWB-1	10/29/2020	7.2	On-Site	--	--
MWB-1	02/09/2021	6.8	On-Site	--	--
MWB-1	04/22/2021	6.6	On-Site	--	--
MWB-1	07/26/2021	9.8	On-Site	--	--
MWB-1	10/19/2021	6.8	On-Site	--	--
MWB-1	02/16/2022	6.1	On-Site	--	--
MWB-1	5/17/2022	5.56	On-Site	--	--
PW-1	10/14/2008	24.6	On-Site	--	--
PW-1	11/24/2020	21.9	On-Site	--	--
PW-10A	10/08/2009	9.63	On-Site	--	--
PW-10A	01/25/2010	6.92	On-Site	--	--
PW-10A	11/24/2020	5.5	On-Site	--	--
PW-11	11/24/2020	18.7	On-Site	--	--
PW-12	11/24/2020	3.7	On-Site	--	--
PW-2	10/08/2009	20.1	On-Site	--	--
PW-2	11/24/2020	17.8	On-Site	--	--
PW-3	10/14/2008	23.8	On-Site	--	--
PW-3	11/24/2020	21.8	On-Site	--	--

Table F-7
Regional Arsenic Under 100 Feet, Production Wells, and On-Site Background Wells Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
PW-4	10/14/2008	31.4	On-Site	--	--
PW-4	11/24/2020	22.1	On-Site	--	--
PW-5	10/08/2009	16.2	On-Site	--	--
PW-5	11/24/2020	22.7	On-Site	--	--
PW-6	10/08/2009	16.8	On-Site	--	--
PW-6	11/24/2020	5.9	On-Site	--	--
PW-7	10/08/2009	13.9	On-Site	--	--
PW-7	11/24/2020	18.7	On-Site	--	--
PW-8	10/08/2009	5.55	On-Site	--	--
PW-8	01/25/2010	4.78	On-Site	--	--
PW-8	11/24/2020	24.3	On-Site	--	--
PW-9	01/25/2010	4.78	On-Site	--	--
PW-9	11/24/2020	31.4	On-Site	--	--
SPW-3	10/14/2008	14.2	On-Site	--	--
SPW-4	10/14/2008	22.7	On-Site	--	--
SPW-5	10/14/2008	21.4	On-Site	--	--
MWB-30	7/1/2007	7.8	On-Site	--	--
MWB-30	10/1/2007	7.8	On-Site	--	--
MWB-30	1/1/2008	5.2	On-Site	--	--
MWB-30	4/1/2008	7.1	On-Site	--	--
MWB-30	7/1/2008	5.8	On-Site	--	--
MWB-30	10/1/2008	6.3	On-Site	--	--
MWB-30	1/1/2009	6.9	On-Site	--	--
MWB-30	4/1/2009	7.5	On-Site	--	--
MWB-30	7/1/2009	6.8	On-Site	--	--
MWB-30	10/1/2009	6.8	On-Site	--	--
MWB-30	1/1/2010	6.6	On-Site	--	--
MWB-30	4/1/2010	6.1	On-Site	--	--
MWB-30	7/1/2010	1 U	On-Site	--	--
MWB-30	10/1/2010	5.7	On-Site	--	--
MWB-30	1/1/2011	6.9	On-Site	--	--
MWB-30	4/11/2011	4.4 J	On-Site	--	--
MWB-30	8/16/2011	3.9 J	On-Site	--	--
MWB-30	2/3/2012	2.2	On-Site	--	--
MWB-30	4/18/2012	5	On-Site	--	--
MWB-30R	03/31/2010	6.6	On-Site	--	--
MWB-30R	06/30/2010	6.1	On-Site	--	--
MWB-30R	09/30/2010	1 U	On-Site	--	--
MWB-30R	12/31/2010	5.7	On-Site	--	--
MWB-30R	03/31/2011	6.9	On-Site	--	--
MWB-30R	06/30/2011	0.93	On-Site	--	--
MWB-30R	09/30/2011	0.93	On-Site	--	--

Table F-7
Regional Arsenic Under 100 Feet, Production Wells, and On-Site Background Wells Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
MWB-30R	12/31/2011	0.93	On-Site	--	--
MWB-30R	03/31/2012	0.93	On-Site	--	--
MWB-30R	06/30/2012	5	On-Site	--	--
MWB-30R	09/30/2012	0.93 U	On-Site	--	--
MWB-30R	12/31/2012	2 U	On-Site	--	--
MWB-30R	3/31/2013	5 U	On-Site	--	--
MWB-30R	6/30/2013	5.0 U	On-Site	--	--
MWB-30R	09/30/2013	5 U	On-Site	--	--
MWB-30R	12/31/2013	5 U	On-Site	--	--
MWB-30R	03/31/2014	5 U	On-Site	--	--
MWB-30R	06/30/2014	5 U	On-Site	--	--
MWB-30R	09/30/2014	5 U	On-Site	--	--
MWB-30R	12/31/2014	5 U	On-Site	--	--
MWB-30R	03/31/2015	5 U	On-Site	--	--
MWB-30R	06/30/2015	5 U	On-Site	--	--
MWB-30R	09/30/2015	5 U	On-Site	--	--
MWB-30R	12/31/2015	5 U	On-Site	--	--
MWB-30R	03/31/2016	5 U	On-Site	--	--
MWB-30R	06/30/2016	5 U	On-Site	--	--
MWB-30R	09/30/2016	5.0 U	On-Site	--	--
MWB-30R	12/31/2016	5 U	On-Site	--	--
MWB-30R	03/31/2017	5 U	On-Site	--	--
MWB-30R	06/30/2017	5 U	On-Site	--	--
MWB-30R	9/31/2017	5 U	On-Site	--	--
MWB-30R	12/31/2017	5 U	On-Site	--	--
MWB-30R	03/31/2018	5 U	On-Site	--	--
MWB-30R	06/30/2018	5 U	On-Site	--	--
CCRBW-2	10/13/2016	5 U	On-Site	--	--
CCRBW-2	1/13/2017	5 U	On-Site	--	--
CCRBW-2	3/16/2017	5 U	On-Site	--	--
CCRBW-2	5/8/2017	5 U	On-Site	--	--
CCRBW-2	7/14/2017	10 U	On-Site	--	--
CCRBW-2	9/12/2017	5 U	On-Site	--	--
CCRBW-2	3/7/2018	5 U	On-Site	--	--
CCRBW-2	10/25/2018	0.64 J	On-Site	--	--
CCRBW-2	3/19/2019	1.1	On-Site	--	--
CCRBW-2	10/9/2019	1.8	On-Site	--	--
CCRBW-2	3/10/2020	0.67 J	On-Site	--	--
CCRBW-2	10/15/2020	0.67 J	On-Site	--	--
CCRBW-2	5/1/2018	5 U	On-Site	--	--
CCRBW-2	4/5/2021	4	On-Site	--	--
CCRBW-2	10/13/2021	7.8	On-Site	--	--

Table F-7
Regional Arsenic Under 100 Feet, Production Wells, and On-Site Background Wells Concentration Dataset
Citrus Combined Cycle Plant
Crystal River, FL

Location ID	Sample Date	Arsenic Concentration (µg/L)¹	Source	Longitude	Latitude
CCRBW-2	3/17/2022	2.7	On-Site	--	--

Notes:

1. The arsenic concentration is the maximum of any replicates from the same date and location.

DOH - Florida Department of Health

DEP - Florida Department of Environmental Protection

µg/L - micrograms per liter

U - result is non-detect below the detection limit

J - result is uncertain

-- - coordinates not provided for on-site wells

Table F-8
Mann-Kendall Results
Citrus Combined Cycle Plant
Crystal River, FL

Data Set Type	Location ID	Analyte	N	Detection Frequency	Mann-Kendall (S)	Z Statistic	COV	Probability	Confidence in Trend	Concentration Trend
Regional	6092326	Arsenic	5	100	2	--	0.25	0.408	0.592	No Trend
Regional	6094523	Arsenic	4	100	2	--	0.59	0.375	0.625	No Trend
Regional	6095093	Arsenic	4	100	0	--	0.68	0.625	0.375	Stable
Regional	AAC7366 6094956	Arsenic	6	100	-9	--	0.46	0.068	0.932	Probably Decreasing
Regional	AAE6717	Arsenic	46	100	-287	-2.71	0.78	0.003	0.997	Decreasing
Regional	AAE6718 6092186	Arsenic	21	100	-107	-3.21	0.73	0.001	0.999	Decreasing
Regional	AAE6720	Arsenic	5	100	0	--	0.40	0.592	0.408	Stable
Regional	AAF7127	Arsenic	10	100	1	--	0.52	0.500	0.500	No Trend
Regional	AAJ7226	Arsenic	5	100	5	--	0.07	(0.117, 0.242)	(0.758, 0.883)	No Trend
Regional	AAK5204	Arsenic	9	100	-12	--	0.47	0.130	0.870	Stable
Regional	AAK5206	Arsenic	18	100	-28	-1.02	1.73	0.153	0.847	No Trend
Regional	AAK5225	Arsenic	5	100	-4	--	0.06	0.242	0.758	Stable
Regional	AAK5227	Arsenic	5	100	2	--	0.15	0.408	0.592	No Trend
Regional	AAK5228	Arsenic	18	100	32	1.18	0.25	0.120	0.880	No Trend
Regional	AAK5229	Arsenic	6	100	3	--	0.38	0.360	0.640	No Trend
Regional	AAK5267	Arsenic	6	100	-9	--	0.37	0.068	0.932	Probably Decreasing
Regional	AAK5268	Arsenic	4	100	-2	--	0.08	0.375	0.625	Stable
Regional	AAK5278	Arsenic	9	100	-24	--	0.40	0.006	0.994	Decreasing
Regional	AAK5286	Arsenic	5	100	4	--	0.27	0.242	0.758	No Trend
Regional	AAK5289	Arsenic	13	100	11	0.61	0.14	0.271	0.729	No Trend
Regional	AAK5291	Arsenic	6	100	3	--	0.15	0.360	0.640	No Trend
Regional	AAK5295	Arsenic	7	100	-11	--	1.11	0.068	0.932	Probably Decreasing
Regional	AAL3900	Arsenic	4	100	-2	--	0.15	0.375	0.625	Stable
Regional	AAL3901	Arsenic	5	100	-4	--	0.75	0.242	0.758	Stable
Regional	AAL3902	Arsenic	20	100	-2	-0.03	0.72	0.487	0.513	Stable
Regional	AAL3903	Arsenic	4	100	-2	--	0.39	0.375	0.625	Stable
Regional	AAL3905	Arsenic	8	100	-10	--	0.94	0.138	0.862	Stable
Regional	AAL3906	Arsenic	5	100	-4	--	0.48	0.242	0.758	Stable
Regional	AAL3919	Arsenic	6	100	-9	--	0.23	0.068	0.932	Probably Decreasing
Regional	AAL3920	Arsenic	11	100	-1	0.00	0.64	0.500	0.500	Stable
Regional	AAL3921	Arsenic	4	100	2	--	0.14	0.375	0.625	No Trend
Regional	AAL3922	Arsenic	5	100	-6	--	0.11	0.117	0.883	Stable
Regional	AAL3923	Arsenic	7	100	-3	--	0.33	0.386	0.614	Stable
Regional	AAL3925	Arsenic	5	100	-6	--	0.59	0.117	0.883	Stable
Regional	AAL3926	Arsenic	8	100	-8	--	0.95	0.199	0.801	Stable
Regional	AAL3927	Arsenic	4	100	-4	--	0.16	0.167	0.833	Stable
Regional	AAL3929	Arsenic	9	100	-6	--	1.29	0.306	0.694	No Trend
Regional	AAL3930	Arsenic	4	100	6	--	0.14	0.042	0.958	Increasing
Regional	AAL3931	Arsenic	12	100	-22	-1.44	1.09	0.075	0.925	Probably Decreasing
Regional	AAL3933	Arsenic	6	100	1	--	0.60	0.500	0.500	No Trend
Regional	AAL3935	Arsenic	16	100	-64	-2.84	0.26	0.002	0.998	Decreasing
Regional	AAL3936	Arsenic	9	100	6	--	0.95	0.306	0.694	No Trend
Regional	AAL3937	Arsenic	5	100	-6	--	0.86	0.117	0.883	Stable
Regional	AAL3938	Arsenic	6	100	-5	--	0.40	0.235	0.765	Stable
Regional	AAL3941	Arsenic	5	100	-8	--	0.17	0.042	0.958	Decreasing
Regional	AAL3946	Arsenic	8	100	4	--	0.43	0.360	0.640	No Trend
Regional	AAL3947	Arsenic	8	100	-16	--	0.86	0.031	0.969	Decreasing
Regional	AAL3955	Arsenic	44	100	-147	-1.48	0.56	0.070	0.930	Probably Decreasing
Regional	AAL3956	Arsenic	5	100	-2	--	0.14	0.408	0.592	Stable
Regional	AAL3957	Arsenic	6	100	-5	--	0.72	0.235	0.765	Stable
Regional	AAL3963	Arsenic	4	100	-4	--	0.55	0.167	0.833	Stable
Regional	AAL3964	Arsenic	6	100	-5	--	0.50	0.235	0.765	Stable
Regional	AAL3965	Arsenic	8	100	-14	--	1.00	0.054	0.946	Probably Decreasing
Regional	AAL3967	Arsenic	8	100	-2	--	0.42	0.452	0.548	Stable
Regional	AAL3969	Arsenic	9	100	-12	--	1.29	0.130	0.870	No Trend
Regional	AAL3972	Arsenic	44	100	-56	-0.56	0.46	0.289	0.711	Stable
Regional	AAL3973	Arsenic	6	100	1	--	0.95	0.500	0.500	No Trend
Regional	AAL3975	Arsenic	5	100	-2	--	0.56	0.408	0.592	Stable
Regional	AAL3976	Arsenic	5	100	-6	--	0.28	0.117	0.883	Stable
Regional	AAL3977	Arsenic	8	100	-13	--	0.21	(0.054, 0.089)	(0.911, 0.946)	Probably Decreasing
Regional	AAL3978	Arsenic	9	100	-22	--	0.84	0.012	0.988	Decreasing

Table F-8
Mann-Kendall Results
Citrus Combined Cycle Plant
Crystal River, FL

Data Set Type	Location ID	Analyte	N	Detection Frequency	Mann-Kendall (S)	Z Statistic	COV	Probability	Confidence in Trend	Concentration Trend
Regional	AAL7311	Arsenic	40	100	-114	-1.32	0.49	0.094	0.906	Probably Decreasing
Regional	AAL7330	Arsenic	7	100	7	--	0.09	0.191	0.809	No Trend
Regional	AAL7334	Arsenic	7	100	-15	--	1.10	0.015	0.985	Decreasing
Regional	AAL7335	Arsenic	4	100	0	--	0.26	0.625	0.375	Stable
Regional	AAL7336	Arsenic	18	100	-13	-0.45	0.22	0.325	0.675	Stable
Regional	AAL7344	Arsenic	7	100	5	--	0.25	0.281	0.719	No Trend
Regional	AAL7346	Arsenic	4	100	2	--	0.22	0.375	0.625	No Trend
Regional	AAL7355	Arsenic	31	100	99	1.67	0.47	0.048	0.952	Increasing
Regional	AAL7369	Arsenic	11	100	5	0.31	0.78	0.378	0.622	No Trend
Regional	AAL7372	Arsenic	10	100	-25	--	0.57	0.014	0.986	Decreasing
Regional	AAL7377	Arsenic	8	100	-14	--	0.98	0.054	0.946	Probably Decreasing
Regional	AAL7378	Arsenic	6	100	-3	--	0.35	0.360	0.640	Stable
Regional	AAL7388	Arsenic	7	100	1	--	0.37	0.500	0.500	No Trend
Regional	AAL7397	Arsenic	4	100	4	--	0.13	0.167	0.833	No Trend
Regional	AAL7398	Arsenic	5	100	-6	--	0.44	0.117	0.883	Stable
Regional	AAL7602	Arsenic	6	100	-7	--	0.76	0.136	0.864	Stable
Regional	AAL7603	Arsenic	9	100	-20	--	0.30	0.022	0.978	Decreasing
Regional	AAL7606	Arsenic	11	100	-21	-1.56	1.17	0.060	0.940	Probably Decreasing
Regional	AAL7610	Arsenic	5	100	-3	--	0.55	(0.242, 0.408)	(0.592, 0.758)	Stable
Regional	AAL7611	Arsenic	5	100	-10	--	0.21	0.008	0.992	Decreasing
Regional	AAL7626	Arsenic	11	100	-13	-0.93	1.91	0.175	0.825	No Trend
Regional	AAL7630	Arsenic	4	100	-6	--	0.28	0.042	0.958	Decreasing
Regional	AAL7632	Arsenic	4	100	-4	--	0.13	0.167	0.833	Stable
Regional	AAL7638	Arsenic	16	100	-4	-0.14	0.18	0.446	0.554	Stable
Regional	AAL7641	Arsenic	4	100	0	--	0.13	0.625	0.375	Stable
Regional	AAL7642	Arsenic	5	100	0	--	0.33	0.592	0.408	Stable
Regional	AAL7645	Arsenic	10	100	-9	--	0.18	0.242	0.758	Stable
Regional	AAL7651	Arsenic	5	100	-4	--	0.27	0.242	0.758	Stable
Regional	AAL7654	Arsenic	7	100	-1	--	0.21	0.500	0.500	Stable
Regional	AAL7676	Arsenic	10	100	-21	--	0.35	0.036	0.964	Decreasing
Regional	AAL7682	Arsenic	10	100	-15	--	0.64	0.108	0.892	Stable
Regional	AAL7691	Arsenic	4	100	-2	--	0.88	0.375	0.625	Stable
Regional	AAM1373	Arsenic	11	100	19	1.40	0.35	0.081	0.919	Probably Increasing
Regional	AAM5501	Arsenic	4	100	0	--	0.51	0.625	0.375	Stable
Regional	AAM5514	Arsenic	5	100	-4	--	0.58	0.242	0.758	Stable
Regional	AAM5524	Arsenic	7	100	-7	--	0.87	0.191	0.809	Stable
Regional	AAM5534	Arsenic	4	100	-2	--	0.98	0.375	0.625	Stable
Regional	AAM5535	Arsenic	4	100	-4	--	0.35	0.167	0.833	Stable
Regional	AAM5536	Arsenic	10	100	-27	--	0.77	0.008	0.992	Decreasing
Regional	AAM5539	Arsenic	8	100	-6	--	0.22	0.274	0.726	Stable
Regional	AAM5548	Arsenic	5	100	-4	--	0.10	0.242	0.758	Stable
Regional	AAM5551	Arsenic	7	100	-3	--	0.42	0.386	0.614	Stable
Regional	AAM5552	Arsenic	4	100	-4	--	0.13	0.167	0.833	Stable
Regional	AAM5553	Arsenic	6	100	-6	--	0.63	(0.136, 0.235)	(0.765, 0.864)	Stable
Regional	AAM5558	Arsenic	11	100	-35	-2.65	0.10	0.004	0.996	Decreasing
Regional	AAM5565	Arsenic	17	100	18	0.70	0.16	0.242	0.758	No Trend
Regional	AAM5570	Arsenic	6	100	-9	--	1.00	0.068	0.932	Probably Decreasing
Regional	AAM5584	Arsenic	16	100	4	0.14	0.54	0.446	0.554	No Trend
Regional	AAM6801	Arsenic	10	100	15	--	0.41	0.108	0.892	No Trend
Regional	AAM6811	Arsenic	13	100	27	1.59	0.24	0.056	0.944	Probably Increasing
Regional	AAM6825	Arsenic	4	100	-2	--	0.29	0.375	0.625	Stable
Regional	AAM6826	Arsenic	5	100	2	--	0.60	0.408	0.592	No Trend
Regional	AAM6827	Arsenic	9	100	2	--	0.18	0.460	0.540	No Trend
Regional	AAM6829	Arsenic	4	100	-6	--	0.16	0.042	0.958	Decreasing
Regional	AAM6835	Arsenic	4	100	0	--	0.45	0.625	0.375	Stable
Regional	AAM6844	Arsenic	5	100	4	--	0.06	0.242	0.758	No Trend
Regional	AAM6846	Arsenic	6	100	-9	--	0.74	0.068	0.932	Probably Decreasing
Regional	AAM6849	Arsenic	5	100	2	--	0.40	0.408	0.592	No Trend
Regional	AAM6867	Arsenic	6	100	-7	--	1.23	0.136	0.864	No Trend
Regional	AAM6868	Arsenic	4	100	-4	--	0.29	0.167	0.833	Stable
Regional	AAM6869	Arsenic	12	100	-10	-0.62	0.11	0.269	0.731	Stable

Table F-8
Mann-Kendall Results
Citrus Combined Cycle Plant
Crystal River, FL

Data Set Type	Location ID	Analyte	N	Detection Frequency	Mann-Kendall (S)	Z Statistic	COV	Probability	Confidence in Trend	Concentration Trend
Regional	AAM7611	Arsenic	6	100	-7	--	0.17	0.136	0.864	Stable
Regional	AAM7612	Arsenic	9	100	-6	--	0.46	0.306	0.694	Stable
Regional	AAM7613	Arsenic	15	100	-9	-0.40	0.31	0.346	0.654	Stable
Regional	AAM7620	Arsenic	4	100	-2	--	0.14	0.375	0.625	Stable
Regional	AAM7638	Arsenic	9	100	2	--	0.18	0.460	0.540	No Trend
Regional	AAM7640	Arsenic	4	100	0	--	0.70	0.625	0.375	Stable
Regional	AAM7642	Arsenic	6	100	-1	--	0.35	0.500	0.500	Stable
Regional	AAM7647	Arsenic	8	100	-8	--	0.11	0.199	0.801	Stable
Regional	AAM7649	Arsenic	6	100	-13	--	0.84	0.008	0.992	Decreasing
Regional	AAM7652	Arsenic	6	100	-7	--	0.33	0.136	0.864	Stable
Regional	AAM7667	Arsenic	4	100	2	--	0.07	0.375	0.625	No Trend
Regional	AAN0228	Arsenic	5	100	2	--	0.53	0.408	0.592	No Trend
Regional	AAN0605	Arsenic	7	100	-7	--	0.19	0.191	0.809	Stable
Regional	AAN0614	Arsenic	7	100	5	--	0.63	0.281	0.719	No Trend
Regional	AAN0644	Arsenic	5	100	0	--	0.55	0.592	0.408	Stable
Regional	AAN0678	Arsenic	18	100	60	2.24	0.19	0.013	0.987	Increasing
Regional	AAN8100	Arsenic	7	100	3	--	0.35	0.386	0.614	No Trend
Regional	AAN8101	Arsenic	11	100	27	2.02	0.13	0.021	0.979	Increasing
Regional	AAN8132	Arsenic	7	100	-10	--	0.13	(0.068, 0.119)	(0.881, 0.932)	Stable
Regional	AAN8133	Arsenic	5	100	-10	--	0.55	0.008	0.992	Decreasing
Regional	AAN8134	Arsenic	5	100	6	--	0.14	0.117	0.883	No Trend
Regional	AAN8137	Arsenic	5	100	0	--	0.07	0.592	0.408	Stable
Regional	AAN8148	Arsenic	4	100	0	--	0.22	0.625	0.375	Stable
Regional	AAN8161	Arsenic	6	100	-9	--	0.21	0.068	0.932	Probably Decreasing
Regional	AAN8173	Arsenic	19	100	-79	-2.73	0.49	0.003	0.997	Decreasing
Regional	AAO0309	Arsenic	4	100	-2	--	0.50	0.375	0.625	Stable
Regional	AAO0330	Arsenic	4	100	2	--	0.15	0.375	0.625	No Trend
Regional	AAO0366	Arsenic	4	100	-2	--	0.63	0.375	0.625	Stable
Regional	AAO0388	Arsenic	5	100	-6	--	0.29	0.117	0.883	Stable
Regional	AAO0390	Arsenic	5	100	-10	--	0.36	0.008	0.992	Decreasing
Regional	AAO0392	Arsenic	5	100	4	--	0.20	0.242	0.758	No Trend
Regional	AAO0397	Arsenic	8	100	-19	--	0.24	0.0071, 0.016	0.984, 0.9929	Decreasing
Regional	AAO1021	Arsenic	4	100	2	--	0.18	0.375	0.625	No Trend
Regional	AAO1049	Arsenic	12	100	-15	-0.96	0.25	0.168	0.832	Stable
Regional	AAO1051	Arsenic	15	100	-57	-2.77	1.93	0.003	0.997	Decreasing
Regional	AAO1082	Arsenic	12	100	2	0.07	0.30	0.473	0.527	No Trend
Regional	AAO1094	Arsenic	13	100	-16	-0.92	1.49	0.180	0.820	No Trend
Regional	AAO1095	Arsenic	6	100	1	--	0.51	0.500	0.500	No Trend
Regional	AAO3550	Arsenic	10	100	-11	--	0.41	0.190	0.810	Stable
Regional	AAO3551	Arsenic	9	100	-7	--	1.80	(0.238, 0.306)	(0.694, 0.762)	No Trend
Regional	AAO3584	Arsenic	22	100	-91	-2.54	0.80	0.006	0.994	Decreasing
Regional	AAO3585	Arsenic	12	100	-36	-2.40	0.82	0.008	0.992	Decreasing
Regional	AAO3804	Arsenic	4	100	-2	--	0.11	0.375	0.625	Stable
Regional	AAO3805	Arsenic	4	100	4	--	0.26	0.167	0.833	No Trend
Regional	AAO4825	Arsenic	7	100	-4	--	0.24	(0.281, 0.386)	(0.614, 0.719)	Stable
Regional	AAO4844	Arsenic	9	100	-10	--	0.13	0.179	0.821	Stable
Regional	AAR1001	Arsenic	4	100	-2	--	0.06	0.375	0.625	Stable
Regional	AAR1004	Arsenic	4	100	0	--	0.12	0.625	0.375	Stable
Regional	AAR1092	Arsenic	7	100	-19	--	0.19	0.001	0.999	Decreasing
Regional	AAR2446	Arsenic	4	100	2	--	0.14	0.375	0.625	No Trend
Regional	AAR2450	Arsenic	11	100	-11	-0.78	0.79	0.218	0.782	Stable
Regional	AAR2563	Arsenic	5	100	7	--	0.11	(0.042, 0.117)	(0.883, 0.958)	No Trend
Regional under 100 ft, production wells, site background wells	AAE6718 6092186	Arsenic	21	100	-107	-3.21	0.73	0.001	0.999	Decreasing
Regional under 100 ft, production wells, site background wells	AAL7632	Arsenic	4	100	-5	--	0.14	(0.042, 0.167)	(0.833, 0.958)	Stable

Table F-8
Mann-Kendall Results
Citrus Combined Cycle Plant
Crystal River, FL

Data Set Type	Location ID	Analyte	N	Detection Frequency	Mann-Kendall (S)	Z Statistic	COV	Probability	Confidence in Trend	Concentration Trend
Regional under 100 ft, production wells, site background wells	AAL7654	Arsenic	7	100	-4	--	0.20	(0.281, 0.386)	(0.614, 0.719)	Stable
Regional under 100 ft, production wells, site background wells	AAM5553	Arsenic	6	100	-6	--	0.64	(0.136, 0.235)	(0.765, 0.864)	Stable
Regional under 100 ft, production wells, site background wells	AAM6869	Arsenic	12	100	-10	-0.62	0.11	0.269	0.731	Stable
Regional under 100 ft, production wells, site background wells	AAO0309	Arsenic	4	100	-1	--	0.48	(0.375, 0.625)	(0.375, 0.625)	Stable
Regional under 100 ft, production wells, site background wells	CCRBW-2	Arsenic	16	50	-1	0.00	0.69	0.500	0.500	Stable
Regional under 100 ft, production wells, site background wells	MWB-1	Arsenic	19	100	4	0.11	0.22	0.458	0.542	No Trend
Regional under 100 ft, production wells, site background wells	MWB-30	Arsenic	19	95	-86	-2.98	0.32	0.001	0.999	Decreasing
Regional under 100 ft, production wells, site background wells	MWB-30R	Arsenic	34	26	--	--	--	--	--	ND
Regional under 100 ft, production wells, site background wells	PW-1	Arsenic	2	100	--	--	--	--	--	ID
Regional under 100 ft, production wells, site background wells	PW-10A	Arsenic	3	100	--	--	--	--	--	ID
Regional under 100 ft, production wells, site background wells	PW-11	Arsenic	1	100	--	--	--	--	--	ID
Regional under 100 ft, production wells, site background wells	PW-12	Arsenic	1	100	--	--	--	--	--	ID
Regional under 100 ft, production wells, site background wells	PW-2	Arsenic	2	100	--	--	--	--	--	ID
Regional under 100 ft, production wells, site background wells	PW-3	Arsenic	2	100	--	--	--	--	--	ID
Regional under 100 ft, production wells, site background wells	PW-4	Arsenic	2	100	--	--	--	--	--	ID
Regional under 100 ft, production wells, site background wells	PW-5	Arsenic	2	100	--	--	--	--	--	ID
Regional under 100 ft, production wells, site background wells	PW-6	Arsenic	2	100	--	--	--	--	--	ID
Regional under 100 ft, production wells, site background wells	PW-7	Arsenic	2	100	--	--	--	--	--	ID

Table F-8
Mann-Kendall Results
Citrus Combined Cycle Plant
Crystal River, FL

Data Set Type	Location ID	Analyte	N	Detection Frequency	Mann-Kendall (S)	Z Statistic	COV	Probability	Confidence in Trend	Concentration Trend
Regional under 100 ft, production wells, site background wells	PW-8	Arsenic	3	100	--	--	--	--	--	ID
Regional under 100 ft, production wells, site background wells	PW-9	Arsenic	2	100	--	--	--	--	--	ID
Regional under 100 ft, production wells, site background wells	SPW-3	Arsenic	1	100	--	--	--	--	--	ID
Regional under 100 ft, production wells, site background wells	SPW-4	Arsenic	1	100	--	--	--	--	--	ID
Regional under 100 ft, production wells, site background wells	SPW-5	Arsenic	1	100	--	--	--	--	--	ID
Production Wells	Production Well ID 615571	TDS	101	100	792	2.32	0.26	0.010	0.990	Increasing
Production Wells	Production Well ID 615572	TDS	96	100	969	3.07	0.28	0.001	0.999	Increasing
Production Wells	Production Well ID 615573	TDS	94	100	946	3.09	0.22	0.001	0.999	Increasing
Production Wells	Production Well ID 615574	TDS	98	100	-11	-0.03	0.27	0.488	0.512	Stable
Production Wells	Production Well ID 615575	TDS	39	100	-53	-0.63	0.30	0.264	0.736	Stable
Production Wells	Production Well ID 615576	TDS	37	100	-70	-0.90	0.34	0.183	0.817	Stable
Production Wells	Production Well ID 615577	TDS	39	100	40	0.47	0.34	0.318	0.682	No Trend
Production Wells	Production Well ID 723330	TDS	39	100	62	0.74	0.29	0.230	0.770	No Trend
Production Wells	Production Well ID 723331	TDS	39	100	56	0.67	0.30	0.252	0.748	No Trend
Production Wells	Production Well ID 723332	TDS	36	100	-196	-2.66	0.27	0.004	0.996	Decreasing
Background Well	MWB-1	Fe	17	100	41	1.65	0.31	0.050	0.950	Increasing
Background Well	MWB-1	Mn	17	100	71	2.89	0.23	0.002	0.998	Increasing
Background Well	MWB-1	TDS	17	100	15	0.58	0.39	0.282	0.718	No Trend

Notes:

N = Total number of samples

Mann-Kendall (S) = Mann-Kendall test statistic

Z Statistic = Standardized Mann-Kendall S value based on the normal approximation (for sample sizes greater than 10)

COV - coefficient of variation calculated as the ratio of sample standard deviation to the sample mean

Probability = Probability associated with Mann-Kendall Hypothesis Test (i.e., *p*-value associated with the S/Z Statistic). For sample sizes $N \leq 10$, if an exact *p*-value was not available, then a range for the *p*-value was provided as: (minimum *p*-value, maximum *p*-value), where the minimum and maximum *p*-values correspond to $|S|-1$ and $|S|+1$, respectively.

Concentration Trend = Indication of whether Mann-Kendall test can detect a trend, and if so, the direction of the trend is shown

-- = not calculated due to $N < 4$ or $< 50\%$ detection frequency

ID = Not analyzed due to $N < 4$

ND = Not analyzed due to $< 50\%$ detection frequency

Table F-9
Background Threshold Statistical Evaluation Summary
Citrus Combined Cycle Plant
Crystal River, FL

Analyte	Arsenic		Iron		Manganese		TDS	
		Regional under 100 ft, Production Wells, MWB-1, MWB-30, MWB-30R, and CCRBW-2						
Data Set	Regional		Regional	MWB-1	Regional	MWB-1	Production Wells	MWB-1
Number of Wells	174	25	33	1	29	1	10	1
Number of Samples	1472	169	43	17	37	17	618	17
Number of Non-Detect Samples	0	34	0	0	0	0	0	0
Units	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Minimum	0.06	0.25	0.011	0.336	0.001	0.0489	6.9	266
Mean ¹	14	8.54	2.07	3.388	0.037	0.106	239.6	404.4
Maximum	167	39	14.9	5.94	0.234	0.168	645	840
2 x Mean	28	17.08	4.14	6.78	0.074	0.212	479.2	809
Type of Distribution	Nonparametric	Nonparametric	Nonparametric	Nonparametric	Gamma	Normal	Nonparametric	Nonparametric
UTL	72	24.6	14.9	5.94	0.18	0.168	472	840
Type of UTL	Nonparametric 95-99 UTL	Nonparametric 95-95 UTL	Nonparametric 95-99 UTL	Nonparametric 95-99 UTL	95-95 Hawkins Wixley Approximation Gamma UTL	Normal 95-95 UTL	Nonparametric 95-99 UTL	Nonparametric 95-99 UTL

Notes:

µg/L - micrograms per liter

mg/L - milligrams per liter

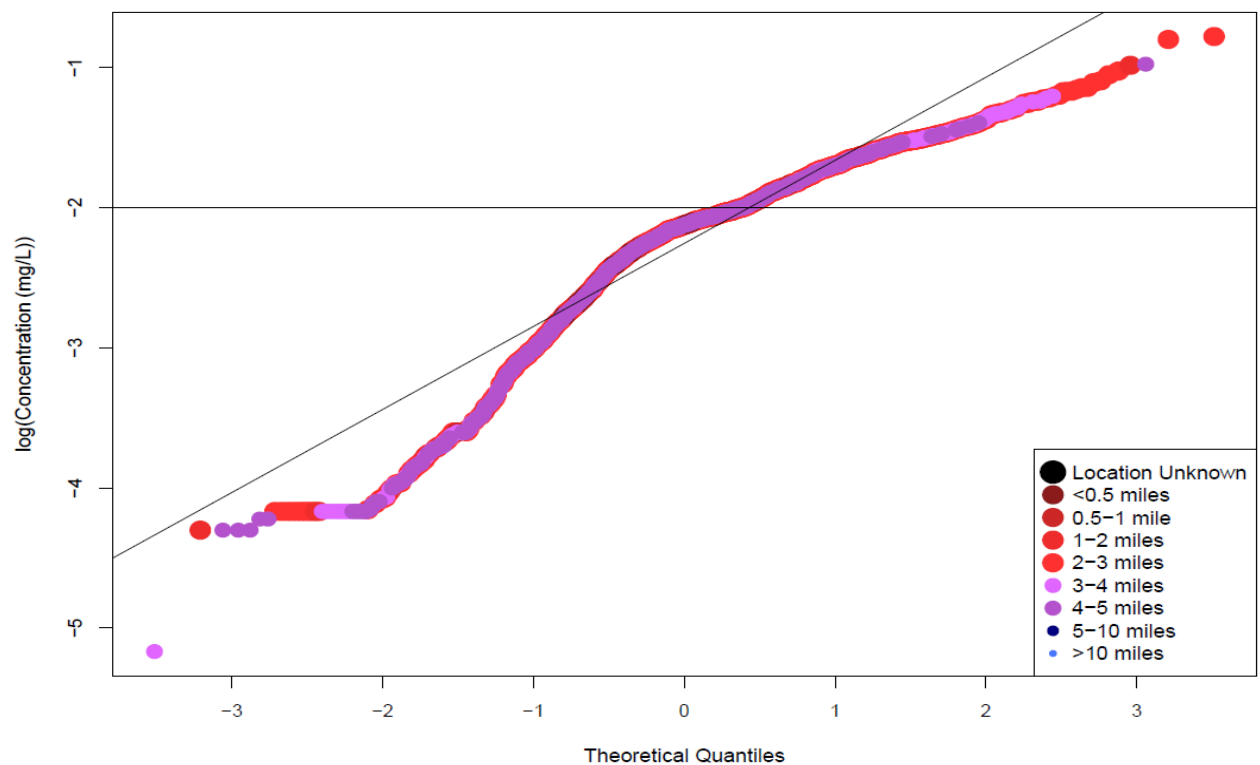
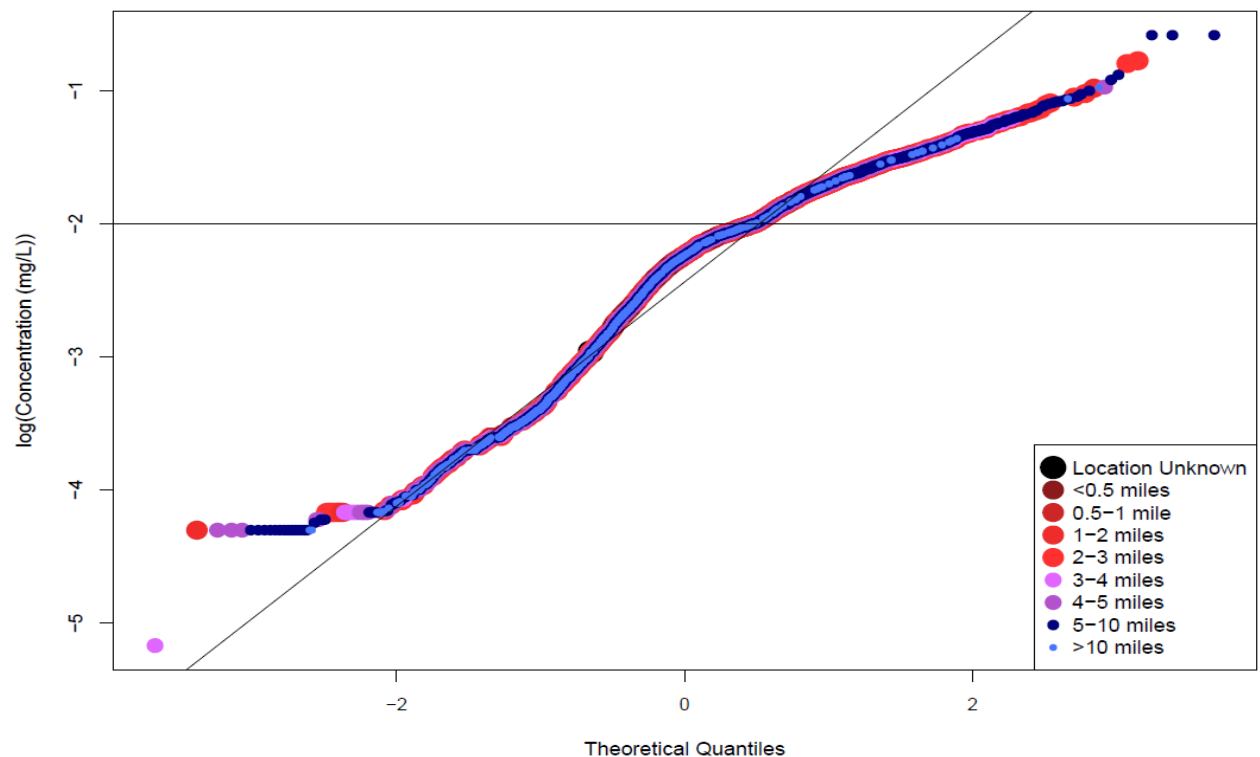
TDS - total dissolved solids

UTL - upper tolerance limit

 - UTLs in yellow highlight were selected as background threshold values

1. For datasets with on-site arsenic data incorporating non-detect data, the Kaplan-Meier mean is used.

FIGURES



Notes:

1. Top quantile-quantile (q-q) plot includes samples at all distances from the site (CCCP).
2. Bottom q-q plot includes only samples collected within 5 miles of the site.
3. Diagonal line shows where the points would fall for a lognormal distribution.
4. Horizontal line shows the GCTL for arsenic at 0.01 mg/L.
mg/L - milligrams per liter

Lognormal q-q Plots of Regional Arsenic Concentrations Binned by Distance

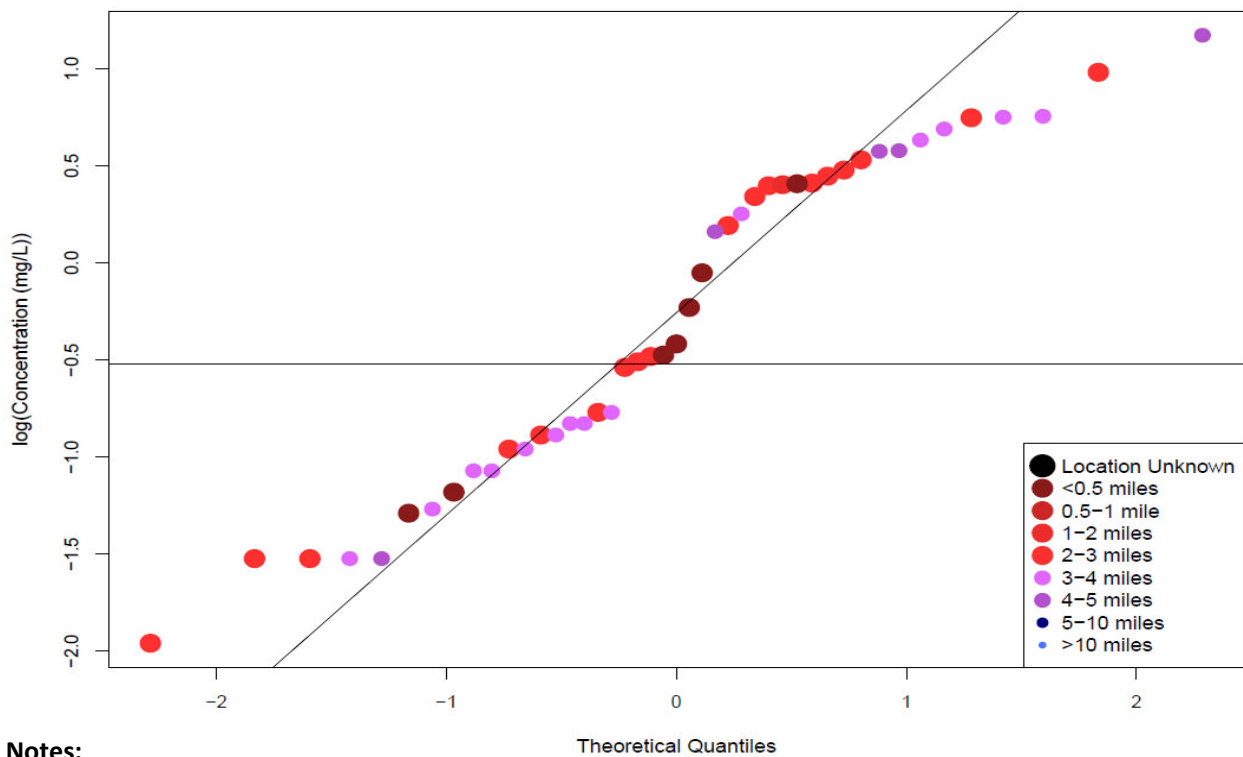
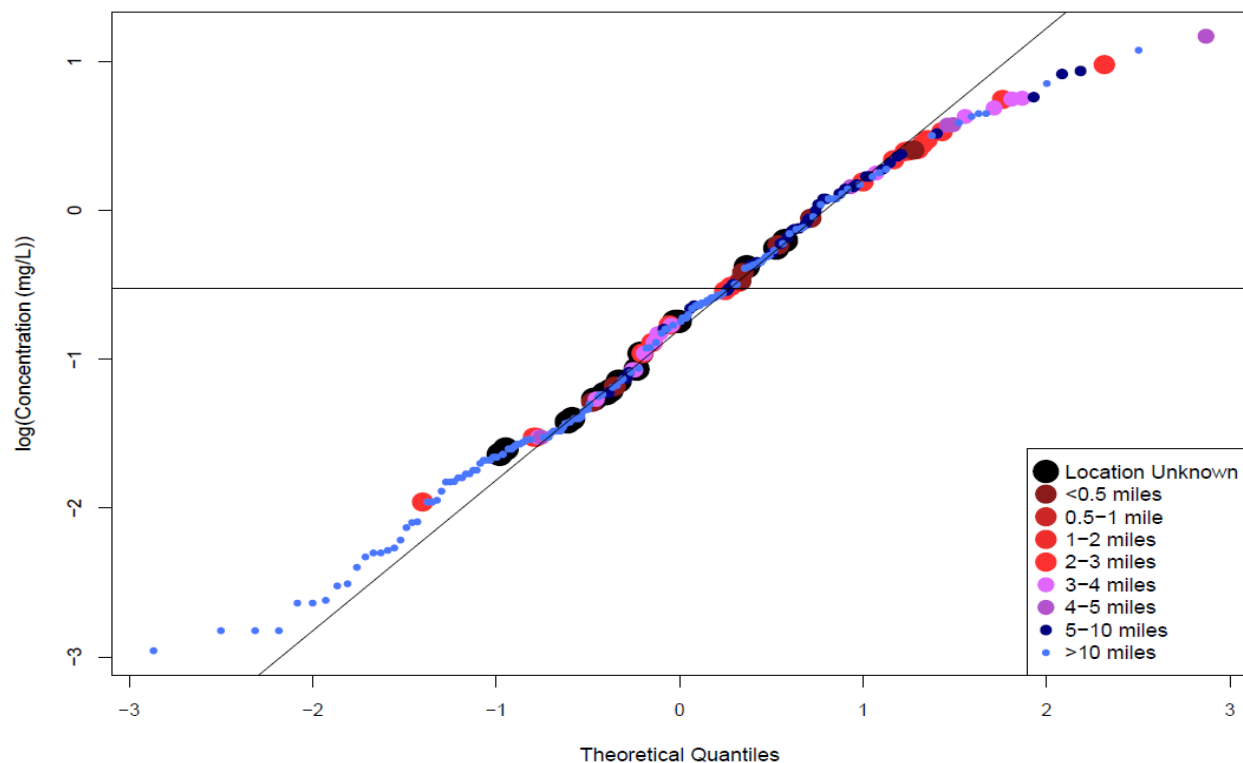
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Figure

F-1

Guelph

July 2023



Notes:

1. Top quantile-quantile (q-q) plot includes samples at all distances from the site (CCCP).
2. Bottom q-q plot includes only samples collected within 5 miles of the site.
3. Diagonal line shows where the points would fall for a lognormal distribution.
4. Horizontal line shows the GCTL for iron at 0.3 mg/L.
mg/L - milligrams per liter

Lognormal q-q Plots of Regional Iron Concentrations Binned by Distance

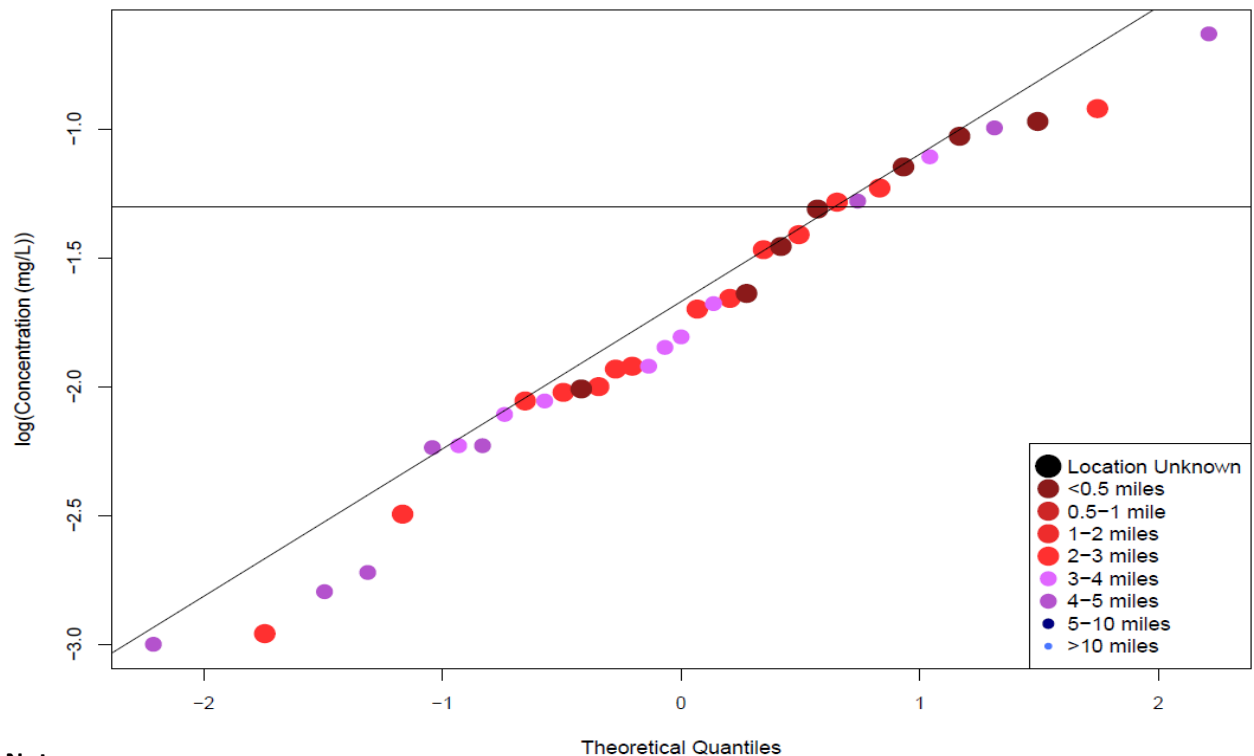
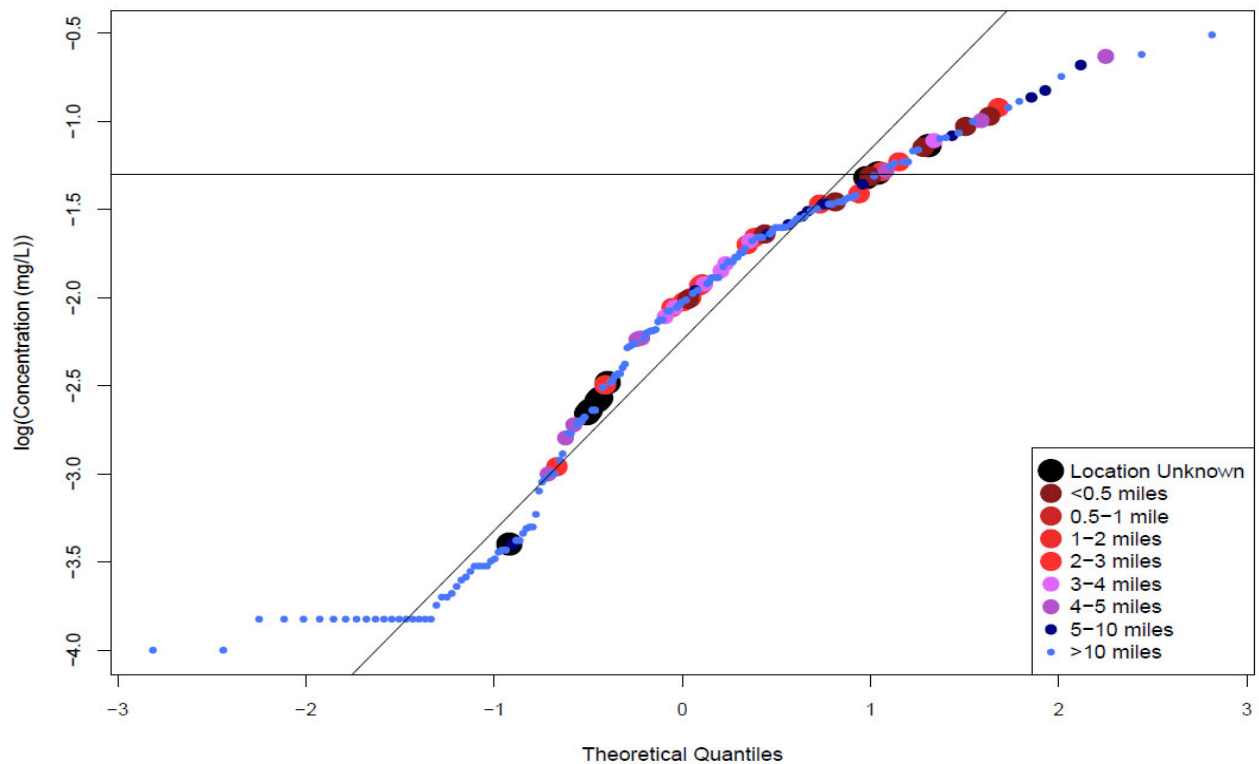
Geosyntec
consultants

Figure

F-2

Guelph

July 2023



Notes:

1. Top quantile-quantile (q-q) plot includes samples at all distances from the site (CCCP).
2. Bottom q-q plot includes only samples collected within 5 miles of the site.
3. Diagonal line shows where the points would fall for a lognormal distribution.
4. Horizontal line shows the GCTL for manganese at 0.05 mg/L.
mg/L - milligrams per liter

Lognormal q-q Plots of Regional Manganese Concentrations Binned by Distance

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Figure

F-3