

Status Update Report-June 2023

For Site:

WALMART STORE #5667
222 N. Chicago Avenue
South Milwaukee
Milwaukee County, Wisconsin 53172
WDNR BRRTS Nos. 02-41-556117 & 02-41-556175

Prepared for:

WALMART, INC. 702 SW 8th Street Bentonville, AR 72716

Prepared by:

Professional Service Industries, Inc. 821 Corporate Court Waukesha, WI 53189 Telephone (262) 521-2125

PSI Project Number 00542644

Pr

Larry Raether, P.E. Principal Consultant

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Senior Engineer

July 31, 2023





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Fax: (262) 521-2471

WDNR-Remediation and Redevelopment Program 1027 West St. Paul Avenue Milwaukee, Wisconsin 53233

Attn: Eric Amadi

Advanced Hydrogeologist Eric.Amadi@Wisconsin.gov

Re: Status Update Report-PFAS Groundwater Sampling-June 2023

CITY OF S. MILWAUKEE VACANT PARCEL AND MIDWEST TANNING CORP. (FMR)

222 N. Chicago Avenue

South Milwaukee, Wisconsin 53172

WDNR BRRTS No. 02-41-556117 & 02-41-556175

PSI Project Number: 00542644

Dear Mr. Amadi:

In June 2023, Professional Service Industries, Inc. (PSI), an Intertek Company, performed a groundwater sampling event on the groundwater wells associated with the above referenced City of S. Milwaukee Vacant Parcel and Midwest Tanning Corp. (Fmr) parcels (Subject Property) for Walmart, Inc. These activities have been completed in accordance with WDNR PFAS sampling requirements. The following is a summary of the work performed, and a field data evaluation and review of the laboratory analytical results for this sampling event.

If you have any questions or comments, please call us at (262) 521-2125.

Respectfully submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Patrick J. Patterson, P.E., P.G.

Senior Engineer

Environmental Services

Larry Raether, P.E.
Principal Consultant
Environmental Services





Walmart Store #5667 222 N. Chicago Avenue South Milwaukee, Wisconsin PSI Project Number: 00542644 BRRTS No. 02-41-556117 & 02-41-556175

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1.0 EXECUTIVE SUMMARY

The Subject Property consists of an approximate 9.6-acre commercial parcel located at 222 N. Chicago Avenue in the City of South Milwaukee, Wisconsin. An approximate 113,000 square foot commercial structure is situated in the western portion of the parcel. Asphalt parking areas, concrete drives and sidewalks, and isolated landscaped areas are present generally located to the north, east and west of the building. The Subject Property is currently used as Walmart Supercenter #5667 and these services were performed for Walmart, Inc.

The surrounding properties to the north, east, and south are generally occupied by commercial, manufacturing facilities and multifamily properties. An existing railroad line is present to the west of the Subject Property.

Two Phase I Environmental Site Assessments (Phase I ESA) were performed by PSI in 2010 for Walmart. One of the Phase I ESAs was completed on the eastern parking lot portion of the existing Walmart property (Subject Property), which was historically occupied by several manufacturing and commercial facilities and residences. One of the manufacturing facilities included the former Rapco Leather Company. The other Phase I ESA was completed on the western portion of the Subject Property that is currently occupied by the existing Walmart store, which was historically occupied by Midwest Tanning Corporation.

Numerous site investigation activities have been completed on the entire Walmart property from the 1990s to present day. Contamination from previous historical property usages on both parcels has been detected in both soil and groundwater. These contaminants generally consist of RCRA Metals, Polynuclear Aromatic Hydrocarbons (PAHs), Volatile Organic Compounds (VOCs), and other compounds. During the site development of the existing Walmart Store #5667, approximately 95,000 tons of impacted soil were removed from the Subject Property and disposed of at a WDNR licensed disposal facility. Residual soil contamination remains on the property within the upper 4-feet, but the residual contamination is covered with at least two feet of landscaped lawn surface, existing building pad, or asphalt parking area which addresses the direct contact exposure pathway.

In a letter issued August 17, 2020, the WDNR stated that responsible parties (RPs) are required to assess for emerging contaminants and their potential impacts on all sites that have not yet been closed. Emerging contaminants include perfluoroalkyl and polyfluoroalkyl substances (PFAS), 1,4-dioxane and other compounds. If a property is deemed a potential source of an emerging contaminants, an evaluation of potential PFAS compounds and other applicable emerging contaminants that were historically or are presently produced, used, handled, stored, or disposed at the site, per Wis. Admin. Code § NR 716.07 and Wis. Admin. Code § NR 716.09 would need to be performed.

Because of the August 17, 2020, WDNR letter and since both parcels were formerly occupied by tanning facilities or facilities that handled tanned products, a potential exists that PFAS containing materials were used, handled, stored, or disposed on these parcels. As such, it was recommended that associated investigative activities be performed to evaluate the presence of PFASs within the groundwater at six existing wells located on the Walmart property. These wells consist of MW-1 and MW-2 that are present in the eastern portion of the Subject Property and MW-4 through MW-7 that are present in the western portion of the Subject Property. The previous well MW-3 was present on the Burger King restaurant parcel located on the northwest corner of N. Chicago Avenue and Davis Avenue but was abandoned prior to the development of the restaurant. In review of the historical property information, no obvious evidence of the use, handling, storage, or the disposal of 1,4-dioxane or other compounds on the Subject Property was observed or apparent within the evaluated



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data. As such, further evaluation for the presence of 1,4-dioxane or other compounds is not warranted.

In accordance with a letter issued by the WDNR on April 6, 2021, which indicated that vaporized Trichloroethene (TCE) in indoor air is more toxic than previously understood, specifically in situations where women of child-bearing years are present, an evaluation of the potential presence of TCE contaminants was performed. The evaluation included the review of available historical property usage documents, aerial photographs, Sanborn fire insurance maps and other historical resources for the past usage of TCE. PSI also reviewed available analytical test results for TCE that are associated with previous and recent investigative activities.

In review of the available historical property use information and other collected environmental data, the previous property usage does not have the likely potential for the presence of vaporized TCE. In addition, no obvious evidence was collected that indicated that the onsite subsurface material contained vaporized TCE contaminants. Based upon the soil and groundwater analytical testing and the petroleum impacted soil remedial activities performed on the Subject Property, there is no obvious evidence that vaporized TCE is present on the Subject Property. Further, in review of the vapor analytical testing of the samples collected from subsurface vapor points, no vaporized TCE was detected in any of the collected vapor samples.

On August 19, 2022, PSI collected five (5) groundwater samples from five of the existing wells. One of the wells was dry at the time of sampling. PFASs were detected in most of the water samples and several of them were above recommended NR140 standards. Because of these test results and to further evaluate the groundwater conditions, PSI recommended the completion of another groundwater sampling event to test for PFASs.

On February 6, 2023, PSI collected five (5) groundwater samples from five of the existing wells. One of the wells was dry at the time of sampling. PFASs were detected in most of the water samples and several of them were above recommended NR140 standards. Because of these test results and to further evaluate the groundwater conditions, PSI recommended the completion of another groundwater sampling event to test for PFASs.

Following approval from Walmart on June 9, 2023, PSI collected groundwater samples from five of the existing wells. One of the wells was dry at the time of sampling. PFASs were detected in the collected water samples. However, the detected compounds in MW-6 were at levels below recommended NR140 standards or were indicated as laboratory estimated values and considered as not accurate. Only one compound was detected at a level above its recommended NR140 PAL, but below its recommended NR140 ES in the sample collected from MW-1. Several compounds detected in the samples collected from MW-4, MW-5 and MW-7 were above recommended NR140 standards. MW-4, MW-5, and MW-7 are located south of the existing Walmart store and near the southern portion of the former Midwest Tanning facility. Because of these test results and in accordance with WDNR groundwater monitoring requirements, PSI recommends the completion of another groundwater sampling event to test for PFASs.

This summary is not to be used alone. The report must be read in its entirety.



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2.0 INTRODUCTION AND BACKGROUND

2.1 SITE DESCRIPTION

The Subject Property consists of an approximate 9.6-acre commercial parcel located at 222 N. Chicago Avenue in the City of South Milwaukee, Wisconsin. An approximate 113,000 square foot commercial structure is situated in the western portion of the parcel. Asphalt parking areas, concrete drives and sidewalks, and isolated landscaped areas are present generally located to the north, east and west of the building. The Subject Property is currently used as Walmart Supercenter #5667. The general location of the Subject Property is shown on the Site Location Map in the Appendix.

The surrounding properties to the north, east, and south are generally occupied by commercial and manufacturing facilities and multifamily properties. An existing railroad line is present to the west of the Subject Property. A diagram showing the general site features is also included in the Appendix.

2.2 PROJECT BACKGROUND

Two Phase I Environmental Site Assessments (Phase I ESA) were performed by PSI in 2010 for Walmart. One of the Phase I ESAs was completed on the eastern parking lot portion of the existing Walmart property (Subject Property), which was historically occupied by several manufacturing and commercial facilities and residences. One of the manufacturing facilities included the former Rapco Leather Company. This portion of the Subject Property is referenced by the WDNR as "City of South Milwaukee Vacant Parcel" and assigned BRRTS No. 02-41-556175. The other Phase I ESA was completed on the western portion of the Subject Property that is currently occupied by Walmart Store #5667, which was historically occupied by Midwest Tanning Corporation. This portion of the Subject Property is referenced by the WDNR as "Midwest Tanning Corp. (Fmr)" and assigned BRRTS No. 02-41-556117.

Numerous site investigation activities have been completed on the entire Walmart property from the 1990s to present day. Contamination from previous historical property usages on both parcels has been detected in both soil and groundwater. These contaminants generally consist of RCRA Metals, Polynuclear Aromatic Hydrocarbons (PAHs), Volatile Organic Compounds (VOCs), and other compounds. During the site development of the existing Walmart Store #5667 in 2012, approximately 95,000 tons of impacted soil were removed from large areas of the Subject Property and disposed of at a WDNR licensed disposal facility. Residual soil contamination remains on the property within the upper 4-feet, but the residual contamination is covered with at least two feet of landscaped lawn surface, existing building pad, or asphalt parking area which addresses the direct contact exposure pathway.

In a letter issued August 17, 2020, the WDNR stated that responsible parties (RPs) are required to assess for emerging contaminants and their potential impacts on all sites that have not yet been closed. Emerging contaminants include perfluoroalkyl and polyfluoroalkyl substances (PFAS), 1,4-dioxane and other compounds. If a property is deemed a potential source of an emerging contaminants, an evaluation of potential PFAS compounds and other applicable emerging contaminants that were historically or are presently produced,



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used, handled, stored, or disposed at the site, per Wis. Admin. Code § NR 716.07 and Wis. Admin. Code § NR 716.09 would need to be performed.

Because of the August 17, 2020, WDNR letter and since both parcels were formerly occupied by tanning facilities or facilities that handled tanned products, a potential exists that PFAS containing materials were used, handled, stored, or disposed on these parcels. As such, it was recommended that associated investigative activities be performed to evaluate the presence of PFASs within the groundwater associated with six existing wells present on the Walmart property. These wells consist of MW-1 and MW-2 that are present in the eastern portion of the Subject Property and MW-4 through MW-7 that are present in the western portion of the Subject Property. The previous well MW-3 was present on the Burger King restaurant parcel located on the northwest corner of N. Chicago Avenue and Davis Avenue but was abandoned prior to the development of the restaurant.

In review of the historical property information, no obvious evidence of the use, handling, storage, or the disposal of 1,4-dioxane or other compounds on the Subject Property was observed or apparent within the evaluated data. As such, further evaluation for the presence of 1,4-dioxane or other compounds is not warranted.

A Site Investigation Workplan, dated July 29, 2022, was prepared in accordance with WDNR requirements and submitted to the WDNR for inclusion into their files on August 12, 2022. The WDNR subsequently contacted PSI to briefly discuss the SIWP. They indicated that they concur that groundwater sampling for the presence of PFAS should occur, but they indicated that additional site investigative activities may be required in the future to complete the site investigation of the Subject Property.

In accordance with a letter issued by the WDNR on April 6, 2021, which indicated that vaporized Trichloroethene (TCE) in indoor air is more toxic than previously understood, specifically in situations where women of child-bearing years are present, an evaluation of the potential presence of TCE contaminants was performed in August 2022. The evaluation included the review of available historical property usage documents, aerial photographs, Sanborn fire insurance maps and other historical resources for the past usage of TCE. PSI also reviewed available analytical test results for TCE that are associated with previous and recent investigative activities. The evaluation did not indicated the use of Trichloroethene (TCE) on the Subject Property or evidence of the presence of high concentrations of TCE within previously collected soil, groundwater, and soil vapor samples from historical investigative activities. As such, further evaluation for vaporized TCE is not warranted.

On August 19, 2022, PSI collected five (5) groundwater samples from five of the existing wells. One of the wells was dry at the time of sampling. PFASs were detected in most of the water samples and several of them were above recommended NR140 standards. Because of these test results and to further evaluate the groundwater conditions, PSI recommended the completion of another groundwater sampling event to further test for the presence of PFASs.

On February 6, 2023, PSI collected five (5) groundwater samples from five of the existing wells. The sixth well was dry on this date. PFASs were detected in most of the water samples. However, only several PFASs detected in three of the wells were above recommended NR140 standards. Because of these test results and in accordance with WDNR groundwater sampling procedures, PSI recommended the completion of another groundwater sampling event to test for PFASs.



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Because of the previous analytical test results, additional groundwater sampling activities for the presence of PFASs were completed in June 2023 for Walmart, Inc. and are discussed in the following paragraphs.

2.3 PURPOSE

The purpose of this report is to present the groundwater conditions encountered during the June 2023 groundwater sampling event of five of the existing six groundwater wells, and laboratory test results of submitted groundwater samples. The laboratory analyses included testing for the presence of PFASs/PFOSs. One of the groundwater monitoring wells was dry at the time of the sampling event and not sampled. Groundwater elevations were obtained during these recent activities.

The activities are not intended to be an all-inclusive search for hazardous substances and do not necessarily preclude the presence of other compounds or contaminants in this or other areas of the Subject Property.

3.0 GROUNDWATER INVESTIGATIVE ACTIVITIES

3.1 SCOPE SUMMARY

The scope of services described in this report included the purging of five wells, the collection and laboratory testing of groundwater samples from MW-1 and MW-4 through MW-7 on June 9, 2023, and an evaluation of the data obtained. MW-2 was dry at the time of this sampling event. The groundwater samples were submitted for analysis for the presence of PFASs/PFOSs. A well location diagram is included in the Appendix.

3.2 PREVIOUS FIELD EXPLORATION

Site investigative activities have been performed within the area of the Subject Property from the early 1990s to about 2014. This data was subsequently submitted to the WDNR for their review and comment in several documents and WDNR forms. Two separate Wisconsin Department of Natural Resources' (WDNR) Bureau of Remediation and Redevelopment Tracking (BRRTS) cases were created for the Subject Property. They consisted of the Former Midwest Tanning Corporation Parcel (BRRTS No. 02-41-556117) with a former address of 1200 Davis Avenue and is situated in the western portion of the site, and the City of South Milwaukee Vacant Parcel (BRRTS No. 02-41-556175), which is situated in the eastern portion of the site. Both sites have been investigated from the 1990s through 2014. In addition, remedial actions have been performed on the Subject Property prior to and during the existing site development of the Walmart Store in 2012.

Following past investigative and remedial activities, PSI submitted case closure requests to the WDNR for the Former Midwest Tanning Corporation parcel in 2016 and for the City of South Milwaukee Vacant Parcel in 2018. In the Midwest Tanning Corp case, the WDNR requested that additional investigation be performed around a previous soil boring completed by another consultant with high levels of Chromium to further evaluate for the presence of Hexavalent Chromium, Trivalent Chromium and Total Chromium in soil and groundwater and, also to evaluate for the presence of Cyanide in soil. In the City of South Milwaukee Vacant Parcel case, the WDNR requested revisions be completed for the submitted case closure document and an



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evaluation of potential for vapor intrusion along migration pathways pertaining to requirements expressed in the WDNR document RR-800 "Addressing Vapor intrusion".

PSI completed additional site investigation activities on both BRRTS cases associated with the Subject Property in January and February 2021. These services included the installation of five soil vapor points, the installation of a sample port on a vent stack pipe associated with an existing subsurface passive venting system, sampling collected soil vapor samples for Petroleum Volatile Organic Compounds (PVOCs) and Naphthalene, monitoring for Methane and volatile vapors on the City of South Milwaukee Parcel (BRRTS No. 02-41-556175), the installation of a NR141-compliant groundwater well, soil and groundwater collection and testing for the presence of Chromium, Hexavalent Chromium, Trivalent Chromium, and Cyanide on the former Midwest Tanning Corp. Parcel (BRRTS No. 02-41-556117).

The results of the additional site investigation activities performed on the City of South Milwaukee Parcel indicated that no PVOCs and Naphthalene vapors were detected within the five soil vapor points or the existing vent stack that exceed current WDNR Vapor Risk Screening Levels. In addition, no Methane was detected at levels that would be considered explosive levels. Further, no other volatile vapors were detected utilizing a Photoionization Detector.

The results of the additional site investigation activities performed on the Former Midwest Tanning Corp. Parcel indicated that no Dissolved Chromium, Hexavalent Chromium, Trivalent Chromium, and Cyanide were detected above the laboratory limit of detection (LOD) within the groundwater sample collected from the newly installed well (MW-7). In addition, no Hexavalent Chromium and Cyanide were detected above the laboratory LOD in the soil sample and the detected Total Chromium, and the calculated Trivalent Chromium levels are below the current NR720 BTV for Chromium.

3.3 QUALITY ASSURANCE/QUALITY CONTROL MEASURES

All equipment decontamination, sample collection, sample custody records, and analysis were performed in general accordance with methods prescribed by the United States EPA and the WDNR for the sampling of PFASs/PFOSs in groundwater. Single-use disposable NitrileTM gloves and PFAS-free disposable bailers were used for each well attempting to eliminate cross-contamination between sampling locations. Samples were placed in laboratory supplied containers and canisters. All samples were placed in a cooler packed with ice and transported under chain-of-custody to Pace Analytical Services, LLC. (Pace) in Green Bay, Wisconsin for chemical analysis.

3.4 GROUNDWATER OBSERVATIONS AND WELL ELEVATIONS

The elevations of the top of the PVC riser pipe of each of the wells were previously determined by PSI personnel using conventional leveling techniques. The elevations were referenced to the top nut of the fire hydrant on the eastside of the intersection of Chicago Avenue and Davis Avenue with an assigned elevation of EL. 658.89±. On June 9, 2023, the groundwater levels were measured within the monitoring wells at depths ranging from 11.14 to 23.73 feet below the top of casing (EL. 641.65± to EL. 653.25±). The measured groundwater elevations have generally ranged between about EL. 640 to about EL. 655 from May 2013 to June 2023. Further, the groundwater level measurements collected from MW-5 have been consistently higher than the measurements collected from MW-1, MW-4, MW-6, and MW-7 during recent and past sampling events and, it is anticipated that the levels measured in MW-5 represent a perched groundwater table in the isolated



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area of MW-5. A groundwater flow diagram using the measurements collected from MW-4, MW-6, and MW-7 is included in the Appendix. These elevations are shown on the Groundwater Elevation Table included in the Appendix.

3.5 LABORATORY ANALYSIS

Based upon the two previous analytical test results, current groundwater samples collected from the five specific wells were submitted for analytical testing for the presence of specific WDNR PFAS/PFOS. These samples were placed into PFAS-free, laboratory provided plastic containers. The samples were placed on ice, chain of custody procedures initiated, and the samples were submitted to Pace Analytical. The analytical report and chain of custody form are included in the Appendix.

4.0 DATA ANALYSIS AND INTERPRETATION

4.1 FIELD AND LABORATORY DATA ANALYSIS

Analysis and interpretation of the groundwater data generated during the sampling events is presented in the following sections. Where appropriate, the results are compared with regulatory limits for the chemicals identified in the applicable media. Copies of the laboratory analytical reports and chain-of-custody documentation are provided in the Appendix.

4.2 GROUNDWATER QUALITY STANDARDS

The Enforcement Standards (ESs) and Preventive Action Limits (PALs) are Groundwater Quality Standards for several Per- and Polyfluoroalkyl Substances (PFAS) which have been recommended by the Department of Health Services to be included in NR140 of the Wisconsin Administrative Code. The WDNR is in the process of evaluating the recommended standards for inclusion into the NR140 standard table. The DHS recommends a combined ES of 20 ng/L and combined PAL of 2 ng/L for FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS, and PFOA. These recommended standards are referenced when evaluating the need for further study or remedial activities. The PAL is the more stringent guideline, in terms of being lesser in magnitude than the ES but will typically require less response action when exceeded. The required action is determined by WDNR regulations, based on various site-specific considerations.

4.3 LABORATORY GROUNDWATER RESULTS

The June 2023 groundwater test results indicated the presence of several PFAS/PFOS in the collected samples from the wells. However, the detected compounds in MW-6 were at levels below recommended NR140 standards or were indicated as laboratory estimated values and considered as not accurate. Only one compound was detected at a level above its recommended NR140 PAL, but below its recommended NR140 ES in the sample collected from MW-1. Further, only concentrations of four PFASs were above current DHS-recommended NR140 standards in the remaining wells. Perfluorooctanesulfonic acid (PFOS) was detected in the samples collected from MW-4, MW-5, and MW-7 at levels of 44 nanograms per liter (ng/l), 660 ng/l, and 170 ng/l, respectively, which are above its recommended NR140 ES of 20 ng/l, while PFOS was detected in the sample collected from MW-1 at a level of 4.7 ng/l which is above its recommended NR140 ES of 2.0 ng/l.



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Perfluorooctanoic acid (PFOA) was detected in the water samples collected from MW-4, MW-5, and MW-7 at levels of 74 ng/l, 260 ng/l, and 470 ng/l, respectively, which are above its recommended NR140 ES of 20 ng/l, while PFOA was detected in the sample collected from MW-6 at a level of 2.0J ng/l which is equal to its recommended NR140 ES of 2.0 ng/l. The PFOA result from MW-6 is indicated as a laboratory estimated concentration and not considered as accurate. Perfluorohexanesulfonic acid (PFHxS) was detected in the water samples collected from MW-5, and MW-7 at levels of 97 ng/l and 110 ng/l, respectively, which are above its recommended NR140 ES of 40 ng/l and a level of 20 ng/l detected in the water sample from MW-4, which is above its recommended NR140 PAL of 4.0 ng/l. N-ethylperfluoro-1-octane sulfonamidoacetic acid (NEtFOSAA) was detected in the water samples collected from MW-4 and MW-5 at levels of 20 ng/l and 2.5J ng/l, respectively, which are above its recommended NR140 PAL of 2.0 ng/l, but below its recommended NR140 ES of 20 ng/l. Other PFASs were detected in the water samples collected from these wells but were at concentrations below recommended NR140 groundwater quality standards or no NR140 standards have been recommended by the DHS.

The results of the laboratory analyses of the collected water samples and their respective DHS-recommended NR140 standards are summarized on the groundwater analytical table included in the Appendix. The analytical laboratory test report and chain of custody form are included in the Appendix.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the historical remedial actions performed during the 2012 site development, which included the placement of an engineered cap/barrier that covers the entire Subject Property with at least a two-foot layer of imported soil fill or concrete/asphalt pavement, and the current property use, investigative activities for evaluating the subsurface soils for the presence of PFASs is not warranted.

In review of the recent and previous analytical test results, PFASs are present in the groundwater generally in the southwestern portion of the Walmart Store #5667 parcel at concentrations above the DHS-recommended NR140 ESs with lesser concentrations in the northwestern portion slightly above the DHS-recommended NR140 PAL.

Based upon the analytical test results of the recent and previous groundwater sampling events and the WDNR requirement of four groundwater monitoring events when contaminants are encountered above NR140 standards, it is recommended that an additional groundwater sampling event be performed on the existing wells to further evaluate the presence of the PFAS-impacted groundwater contamination.

The recommended additional groundwater sampling event of the above-mentioned wells should be completed in September 2023.

6.0 REPRESENTATIONS

6.1 WARRANTY

The field observations, measurements, and research reported herein are considered sufficient in detail and scope to form a reasonable basis for the work performed at this site. The assessment, conclusions, and



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recommendations presented herein are based upon the subjective evaluation of limited data. They may not represent all conditions at the Subject Property as they reflect the information gathered from specific locations. PSI warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted environmental investigation methodology and only for the site described in this report.

The soil and groundwater investigation of this site has been developed to provide the client with information regarding apparent indications of environmental concerns relating to the Subject Property. It is necessarily limited to the conditions observed and to the information available at the time of the work.

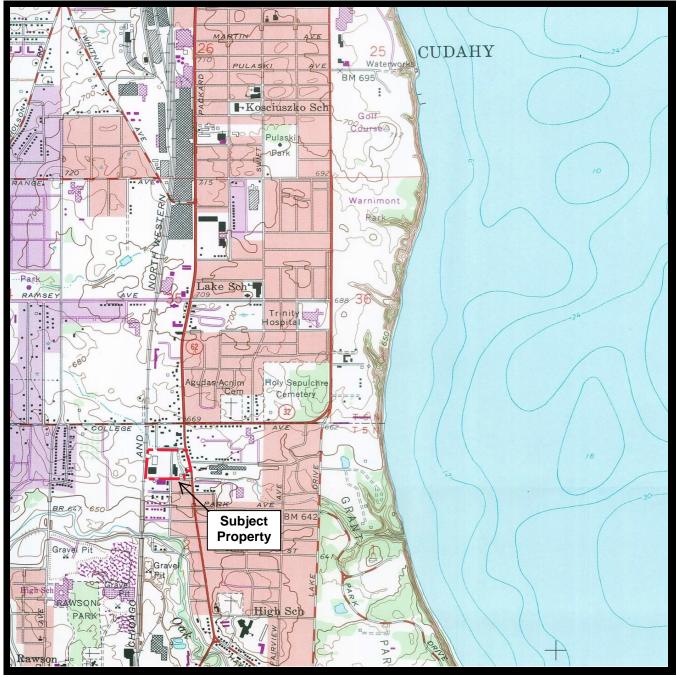
Due to the limited nature of the work, there is a possibility that there may exist conditions which could not be identified within the scope of the assessment or which were not apparent at the time of report preparation. It is also possible that the testing methods employed at the time of the report may later be superseded by other methods. The description, type, and composition of what are commonly referred to as "hazardous materials or conditions" can also change over time. PSI does not accept responsibility for changes in the state of the art, nor for changes in the scope of various lists of hazardous materials or conditions. PSI believes that the findings and conclusions provided in this report are reasonable.

6.2 THIRD PARTY USE

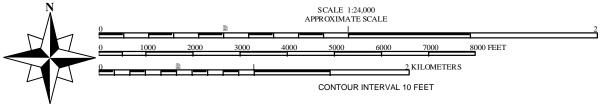
This report was prepared pursuant to the contract PSI has with Walmart, Inc. Because of the importance of the communication between PSI and its client, reliance or any use of this report by anyone other than Walmart, Inc.; and their respective successors, assigns, affiliates and subsidiaries, under the same conditions as if it had been prepared for them, is prohibited and therefore not foreseeable to PSI.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third-party beneficiary to PSI's contract with Walmart, Inc. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.





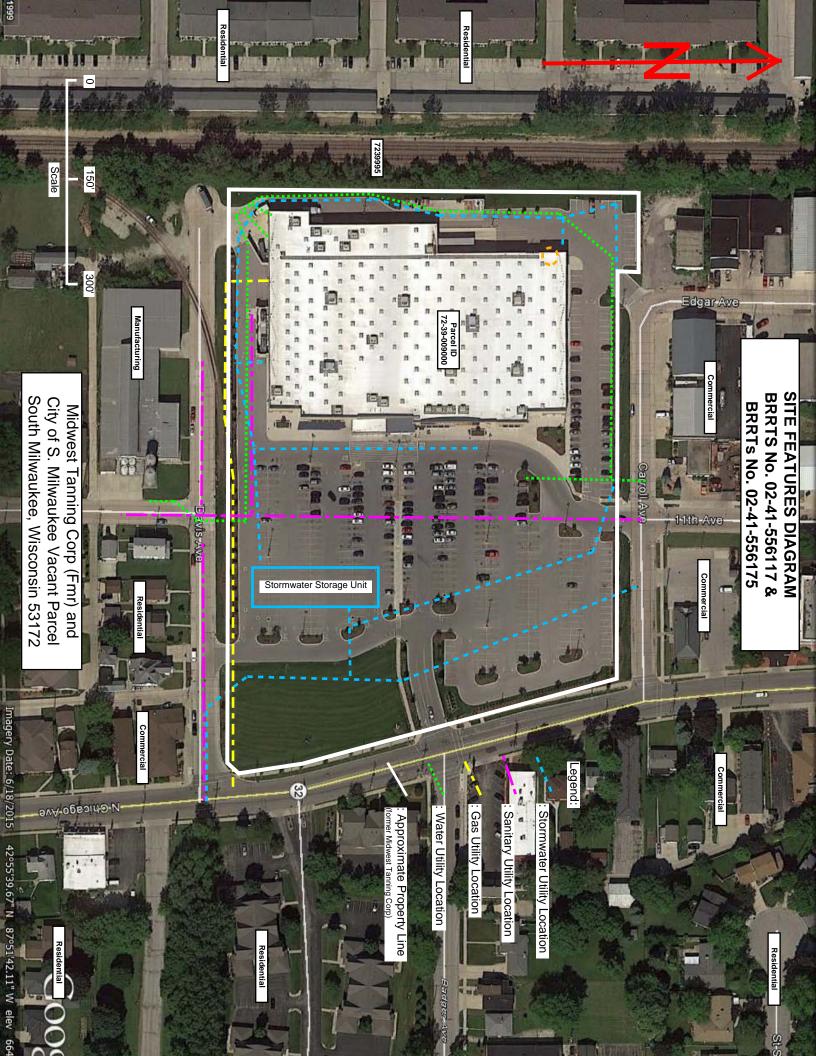
Source: United States Geological Survey, South Milwaukee, Wisconsin, 7.5-Minute Topographic Maps, 1958, photorevised 1971, photoinspected 1976

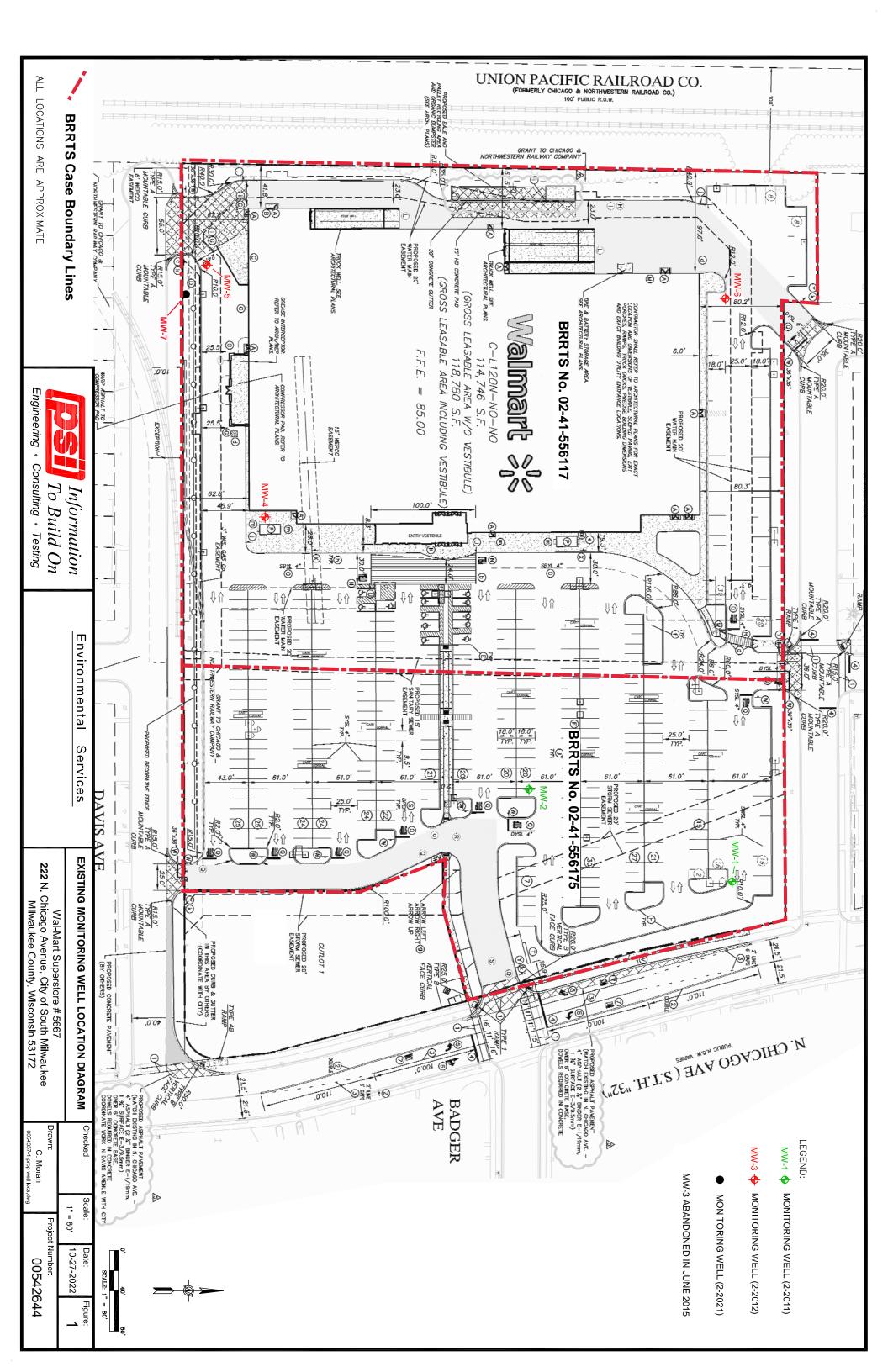


Northeast 1/4 of the Northwest 1/4, Section 2, Township 5 North, Range 22 East

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Information	Environmental Services 821 Corporate Court		DATE: F	PROJECT NO: 00542644
To Build On Engineering • Consulting • Testing	Waukesha, Wisconsin 53189	Milwaukee County, Wisconsin 53172	-	
	(262) 347-0898 Fax (262) 521-2471	Site Location Map	Figu	re 1





Groundwater Elevation Table

Wal-Mart Store #5667 (City of South Milwaukee and Former Midwest Tanning Corp.) 222 North Chicago Avenue

South Milwaukee, Wisconsin 53172

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	MW-1	V-1	MV	MW-2	MW-4	1-4	MV	MW-5	9-WM	9-/	7-WM	1-7
	GS Elev. =	661.75	GS Elev. =	662.39	GS Elev. =	665.89	GS Elev. =	664.89	GS Elev. =	664.98	GS Elev. =	665.90
	TOC Elev. =	661.20	TOC Elev. =	661.89	TOC Elev. =	665.34	TOC Elev. =	664.39	TOC Elev. =	664.57	TOC Elev. =	665.38
Date Collected	TOS Elev. =	656.20	TOS Elev. =	656.89	TOS Elev. =	660.34	TOS Elev. =	659.39	TOS Elev. =	659.57	TOS Elev. =	660.38
	BOW Elev. =	636.10	BOW Elev. =	638.66	BOW Elev. =	636.06	BOW Elev. =	639.78	BOW Elev. =	639.39	BOW Elev. =	635.78
	Depth to	MĐ	Depth to	MĐ	Depth to	МĐ	Depth to	MĐ	Depth to	ВW	Depth to	В
	GW	Elevation	GW	Elevation	GW	Elevation	GW.	Elevation	GW.	Elevation	GW.	Elevation
5/30/2013	-				22.65	642.69	11.41	652.98	21.88	642.69		:
6/10/2013	14.81	646.39	18.90	642.99	23.06	642.28	15.28	649.11	22.02	642.55		:
6/11/2013	1				-		-	-		-		:
6/17/2013												
9/10/2013	15.21	645.99	19.15	642.74	23.20	642.14	11.56	652.83	22.19	642.38		
11/26/2013	15.46	645.74	19.33	642.56	23.36	641.98	11.58	652.81	22.33	642.24		
2/27/2014	15.83	645.37			24.11	641.23	11.72	652.67				
2/28/2014			19.81	642.08					22.99	641.58		
1/25/2021					22.93	642.41	6.6	654.49	21.81	642.76		
3/15/2021	14.64	646.56	16.35	645.54	22.67	642.67	9.62	654.77	21.73	642.84	23.88	641.50
2/6/2023	15.6	645.60			23.55	641.79	9.97	654.42	22.47	642.10	24.57	640.81
6/9/2023	14.76	646.44			22.67	642.67	11.14	653.25	21.63	642.94	23.73	641.65

Notes:

GS Elev. - Ground Surface Elevation

TOC Elev. - Top of Casing Elevation

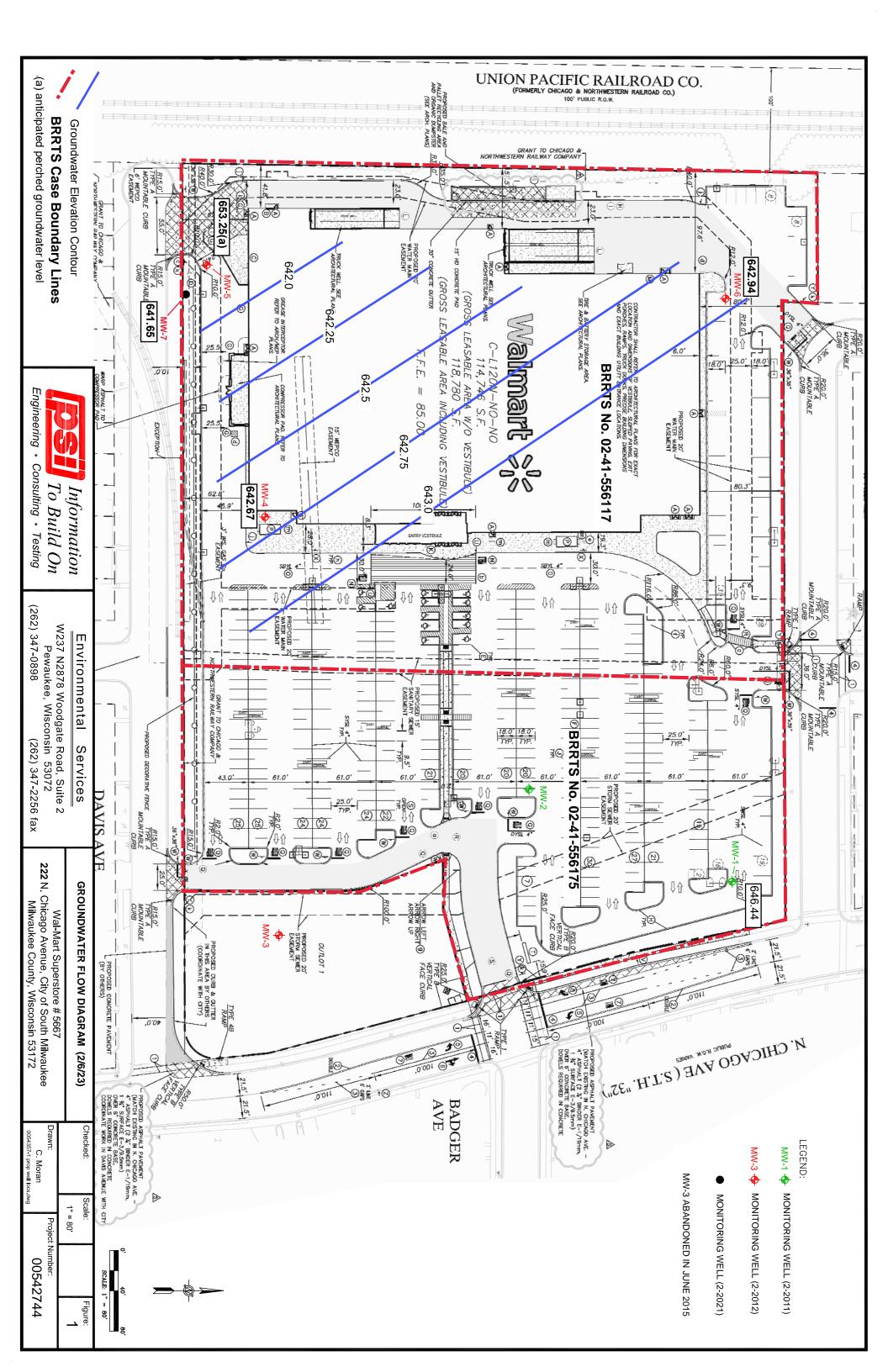
TOS Elev. - Top of Screen Elevation

BOW Elev. - Bottom of Well Elevation

GW - Groundwater

1 - Depth to groundwater measured from top of well casing

Benchmark elevation = EL. 658.89 (fire hydrant east side of Chicago Ave and Davis Ave.)



Groundwater Analytical Results Table

City of S. Milwaukee Vacant Parcel and Midwest Tanning Corp. (FMR)

222 N. Chicago Avenue

South Milwaukee, Wisconsin 53172 PSI Project No. 00542644

BRRTS No. 02-41-556175 & 02-41-556117

	Location		MW-1			MW-4			MW-5			9-WW			MW-7		Recommended NR140	nended 40
	Date	8/19/22	2/6/23	6/9/23	8/19/22	2/6/23	6/9/23	8/19/22	2/6/23	6/9/23	8/19/22	2/6/23	6/9/23	8/19/22	2/6/23	6/9/23	ES	PAL
Analytical Pai	Units																	
Detected PFAS/PFOS	PFOS																	
PFBA	l/gn	9.9	4.6	4.4	16	17	14	14	15	17	5.2	2.8	5.8	18	18	40	10,000	2,000
PFPeA	l/gn	3.2	1.6J	2.7J	15	15	11	11	11	14	2.9	3.4J	2.8J	18	21	38	-	!
PFBS	l/gn	0.64J	0.72J	0.51J	18	15	12	20	24	26	2.4	2.6J	1.8J	23	28	41	450,000	90,000
PFHxA	ng/l	<0.89	1.4J	<0.64	32	28	28	24	25	33	3.1	2.4J	2.5J	45	20	94	150,000	30,000
PFPeS	l/gn	<0.59	<0.52	<0.55	12	6.7	8.1	24	28	29	9.0>	<0.54	<0.54	17	21	39		-
PFHpA	l/gn	<0.68	<0.39	<0.41	11	11	14	22	21	27	1.3J	1.1J	1.03	24	30	28		
PFHxS	l/gn	<0.52	<0.48	0.95J	<u> 78</u>	14	<u>20</u>	92	110	46	<0.53	<0.51	<0.50	43	22	110	40	4
PFOA	ng/l	1.1J	<0.73	1.3J	100	43	74	180	190S	260	2.2	2.27	2.07	120	170	470	а	<u>a</u>
6:2 FTS	l/gn	>0.66	<1.8	<1.9	Ր 9 6′0	<1.9	<1.9	<0.65	<1.9	<1.8	<0.67	<1.9	<1.8	<0.7	<1.9	<1.8		-
PFHpS	l/gn	<0.65	<0.44	<0.46	3.2	1.3J	1.9J	25	20	17	99:0>	<0.46	<0.45	7.5	9.3	11		-
PFNA	ng/l	<0.78	<0.45	<0.43	1.1J	<0.44	0.71J	3.9	4.1	2.9J	<0.79	<0.41	<0.42	1.5J	2.03	1.9J	30	છ
PFOSAm	ng/l	<0.56	<0.46	<0.57	4.3	2.1J	2.8J	46	19	8.5	<0.71	<0.42	<0.56	<0.74	<0.56	<0.55	-	1
PFOS	ng/l	28	<0.47	4.7	64	40	44	940D	930	099	99.0>	<1.8	<1.8	481	270	170	а	ā
MeFOSA	ng/l	<0.54	<0.48	<1.2	L62.0	<1.2	<1.2	<0.53	<1.2	<1.1	<0.55	<1.2	<1.1	<0.57	<1.2	<1.1	-	!
PFDA	l/gn	9:0>	<0.49	<0.49	9.0>	<0.5	<0.49	0.96	0.81J	0.59J	9:0>	<0.48	<0.48	<0.63	<0.48	<0.46	300	<u>09</u>
NMeFOSAA	ng/l	<0.68	<0.50	<0.86	78	99	63	17	9.8	3.8J	69.0>	<0.85	<0.85	<0.72	<0.85	<0.83	-	1
NEtFOSAA	ng/l	1.3J	<0.51	<0.70	17	19	20	8	4.1)	2.5J	<0.81	69.0>	69.0>	<0.84	<0.69	<0.67	а	a

Bold concentrations exceed DHS Recommended NR 140 Enforcement Standards (ESs)

Italicized/underlined concentrations exceed DHS Recommended NR 140 Preventive Action Limits (PALs)

--- - Not analyzed/Not Established

ng/l -nanograms per liter

a - DHS recommends a combined ES of 20 ng/L and combined PAL of 2 ng/L for FOSA, NEIFOSE, NEIFOSA, NEIFOSAA, PFOS, and PFOA

D - result obtained from analysis of diluted sample

I - isotope ratio out of specification

S - MS/MSD failure

Q - Surrogate failure

J - laboratory estimated concentration detected between the laboratory Limit of Detection and the Limit of Quantitation

PFPeA detected in 2-2023 field blank at 0.71J ng/l





July 21, 2023

Patrick Patterson PSI 821 Corporate Ct. Suite 102 Waukesha, WI 53189

RE: Project: 0054 2644-WALMART

Pace Project No.: 40263440

Dear Patrick Patterson:

Enclosed are the analytical results for sample(s) received by the laboratory on June 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela Lane angela.lane@pacelabs.com (920)469-2436 Project Manager

Enclosures





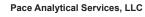
SAMPLE SUMMARY

Project: 0054 2644-WALMART

Pace Project No.: 40263440

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40263440001	MW-1	Water	06/09/23 11:55	06/10/23 08:35
40263440002	MW-4	Water	06/09/23 12:30	06/10/23 08:35
40263440003	MW-5	Water	06/09/23 13:25	06/10/23 08:35
40263440004	MW-6	Water	06/09/23 12:55	06/10/23 08:35
40263440005	MW-7	Water	06/09/23 13:50	06/10/23 08:35
40263440006	FIELD BLANK	Water	06/09/23 13:20	06/10/23 08:35

REPORT OF LABORATORY ANALYSIS



1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436



PROJECT NARRATIVE

Project: Pace Project No.:	
Method: Description: Client: Date:	

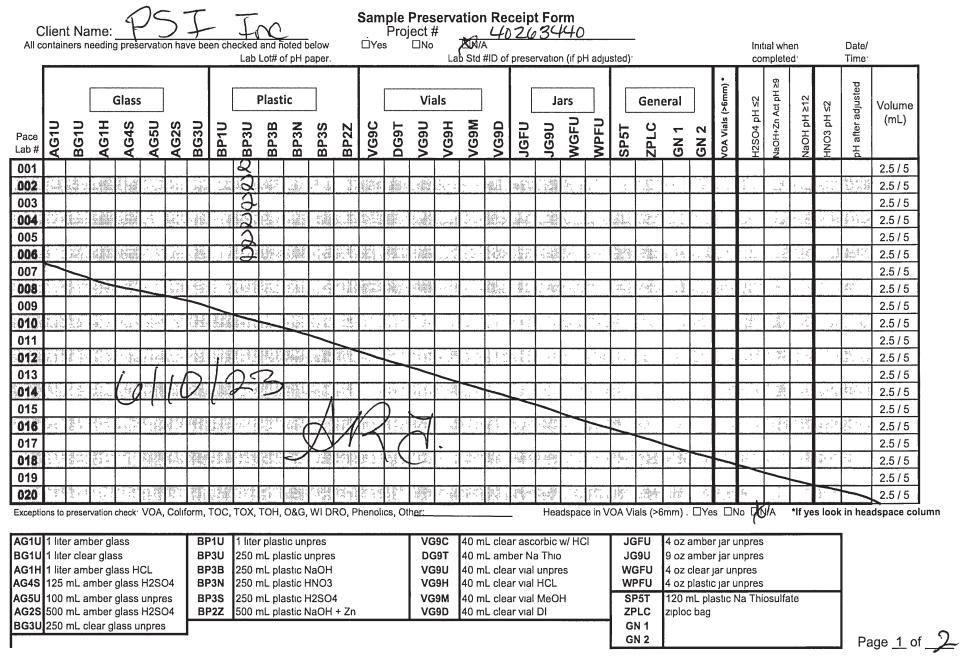
This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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/ Pace Analytical*	Chain-of-	Custody	ıs a LEGAL	DOCUMEN [*]	T - Complete	e all releve	nt fields		digi-s						,		,		40	263	440	
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Report To: Put Patterson	1		Email To:							eservat									odium hydroxid iic acid, (B) amn			
Сору То:			Site Colle	ction Info/A	ddress:	th Mi	Tway	1100	(C) an			oxide, (D) TSP,	(U) Un		ed, (O) Ot						
Customer Project Name/Number:			State:	County/Ci	ty: IIn	ne Zone Co	nectea:		v			Т	Analys	ses	Т		T-	Dab Sa	/Line: mple Roceis	t Checkli	st:	,
00542644 -W	almart		WI!] PT [] MT		[] ET	, -									Custod			cţ Y N NA	r.
Phone: 262-521-2125 Email:	Site/Facility ID #	:			Compliand	e Monitori [] No	ng?											Custod Collec Bottle	Signature tor Signature S Intact	resent	DY N NA W N NA	
Collected By (print):	Purchase Order Quote #:	#:			DW PWS I								4	1				Correc Suffic	t Bottles ient Volume	a see e	AY NA	1
Collected by (signature):	Turnaround Date	e Require	ed:]	ely Packed	on Ice:											VOA -	s Received Headspace A egulated Sc	ceptable	AN N Y	9
Sample Disposal:	Rush:				[] Yes Field Filter	ed (ıf appli	cable):							l				Sample Residu	s in Holdin	ng Time	Y N NA Y N NA	
[] Dispose as appropriate [] Return [] Archive:	[] Sam		[] Next D [] 4 Dav		[] Yes	[] No												Cl Str Sample	pH Accepta		Y'N NA	,
[] Hold:			ges Apply)	. , ,	Analysis: _									ı.	-				errefert	<u> </u>	AN NA	
* Matrix Codes (Insert in Matrix bo Product (P), Soıl/Solid (SL), Oil (Ol										AS						i		_	cetate Stri E ONLY:	lps:	_/	,
Customer Sample ID	Matrix *	Comp / Grab	Compo	ted (or site Start)	<u> </u>	site End	Res Cl	# of Ctns	e jara	PF					۷.			Lab Sa	mple # / Co	omments:	. 10 C.	1
MW-1	GW		6/9	Time 11.55	Date	Time		2		×		+		\dashv	\dashv	-	+-	(2821	19	ارد	· ·	
Mw-2 -			0//	100			 	_	,			\dashv	,	十		1	110	002	· · · · · · · · · · · · · · · · · · ·			< a
MW-4	GW			1230				2		X		\dashv	-,	\neg	,	É	114	0000	· · · · · · · · · · · · · · · · · · ·	28		,
MW-5				1325				2		X							7,6	DOC	r 0(フვ		
MW-6				1255	<u> </u>			2		X						Ø	UZ/	1005	0	04		
Mw-7				1350			<u> </u>	12		X				_	-	1	11.	1006	2 00	25		*/*
Field Blank	OT		<u> </u>	1320		<u> </u>		2		K	, ,		_	- 1				007	a OC	26	1/150	es.
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Customer Remarks / Special Condit	ions / Possible Ha	azards:				Blue Dr	·	one		-	Tracking		ESENI	(21</td <td>nours):</td> <td>∽Y N</td> <td>N/A</td> <td>, Alex</td> <td></td> <td>-</td> <td>: IIIO. : Y N I</td> <td>NA</td>	nours):	∽Y N	N/A	, Alex		-	: IIIO. : Y N I	NA
			Packing I	Naterial Use	1		ja	,		Lab	Паски	g#: «	. 2	78	348	353	, ." 	2 %	Therm ID	Temp Upon	 Danaint	- ·
			Do dob on			F00\).	V			Sam	ples rec	eived							Cooler 17	Therm Con	Factor:	oC oC
			<u> </u>	sample(s)	creened (<		Y N		<u> </u>	-	FEDEX		S (Client		urier	Pace C		Cooler 10 Comment	Orrected Te	emp:	oC
Relinquiched by/Company: (Signatu	ıre)		/Time: 1/23 [5	:45	Received b	y/Company	y: (Signat	ure)			Date/Ti	ime:			Table	MTJL LA	B USE (ONLY	Comment		* /	· ·
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DC#_Title: ENV-FRM-GBAY-0035 v03_Sample Preservation Receipt Form

Effective Date: 8/16/2022



DC#_Title: ENV-FRM-GBAY-0014 v03_SCUR

Effective Date: 8/17/2022

Sample Condition Upon Receipt Form (SCUR)

				Project #:
Client Name: PST FnC	<u>·</u> ·		-	WO#: 40263440
Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speede	е	UPS		
☐ Client ☐ Pace Other:				
Tracking #:				40263440
Custody Seal on Cooler/Box Present: yes	o no	Seals	ıntact:	yes Tcho
Custody Seal on Samples Present: yes	no	Seals	ıntact:	yes pono
Packing Material: Bubble Wrap Bubb	le Bag	js [None	e Kother Ziplocs 6/10/23 dRy
Thermometer Used SR - 129	Type	of Ice:	(Wet	Blue Dry None Meltwater Only
Cooler Temperature Uncorr: 1 / / / / / / / / / / / / / / / / / /	<u>.0</u>			Person examining contents:
Temp Blank Present: ☐ yes 🎵 no		Biolo	gical T	Fissue is Frozen: ☐ yes ☐ no Date:(0/17)23(Initials: 1996)
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on Dry	/ Ice.			Labeled By Initials:
Chain of Custody Present:	Ves	□No	□n/a	1.
Chain of Custody Filled Out:	X Yes	□No	□n/a	2.
Chain of Custody Relinquished:	₩ es	□No	□n/a	3.
Sampler Name & Signature on COC:	Pes	□No	□n/a	4.
Samples Arrived within Hold Time:	Ż € es	□No		5.
- DI VOA Samples frozen upon receipt	□Yes	□No		Date/Time:
Short Hold Time Analysis (<72hr):	□Yes	XINO		6.
Rush Turn Around Time Requested:	□Yes	Ď₩0		7.
Sufficient Volume:				8.
For Analysis [.] Wes □No MS/MSD:	□Yes	Ď ‰	□n/a	
Correct Containers Used	Yes	□No		9.
Correct Type Pace Green Bay Pace IR, Non-Pace	•			
Containers Intact:	P Yes	□No		10.
Filtered volume received for Dissolved tests	□Yes	□No	N/A	11.
Sample Labels match COC:		No	□n/a	12.
-Includes date/time/ID/Analysis Matrix:	'W	<u> </u>		
Trip Blank Present:	□Yes	No	□n/a	13.
Trip Blank Custody Seals Present	□Yes	XW.	□n/a	
Pace Trip Blank Lot # (if purchased):				
Client Notification/ Resolution:			D-4- 5	If checked, see attached form for additional comments
Person Contacted:Comments/ Resolution:			_Date/	
			<u> </u>	
PM Review is documented electronically in LIMs	s. By re	eleasii	na the	project, the PM acknowledges they have reviewed the sample log
The second secon	 y / (. 9	Page 2 of 2
				3-1

P#98960f136f2



Report of Analysis

Pace Analytical Services, LLC 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Attention: Angela Lane

Project Name: 0054 2644-WALMART

Project Number: 40263440 Lot Number: YF13013

Date Completed:06/29/2023

06/30/2023 12:13 PM Approved and released by:

Project Coordinator 1: Jenna S. Holliday





The electronic signature above is the equivalent of a handwritten signature.

This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Pace Analytical Services, LLC Lot Number: YF13013

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18, PFAS by Isotope Dilution SOP.

Pace is a DoD/DoE and TNI accredited laboratory; however, Pace is not accredited for PFAS Direct Aqueous Injection or Method D8421.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

PFAS Analysis

Surrogate recovery for samples YF13013-003 and -005 were outside the acceptance limits. Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

PACE ANALYTICAL SERVICES, LLC

Sample Summary Pace Analytical Services, LLC

Lot Number: YF13013
Project Name: 0054 2644-WALMART
Project Number: 40263440

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	06/09/2023 1155	06/13/2023
002	MW-4	Aqueous	06/09/2023 1230	06/13/2023
003	MW-5	Aqueous	06/09/2023 1325	06/13/2023
004	MW-6	Aqueous	06/09/2023 1255	06/13/2023
005	MW-7	Aqueous	06/09/2023 1350	06/13/2023
006	FIELD BLANK	Aqueous	06/09/2023 1320	06/13/2023

(6 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary

Pace Analytical Services, LLC

Lot Number: YF13013

Project Name: 0054 2644-WALMART

Project Number: 40263440

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-1	Aqueous	PFBS	PFAS by ID	0.51	J	ng/L	6
001	MW-1	Aqueous	PFHxS	PFAS by ID	0.95	J	ng/L	6
001	MW-1	Aqueous	PFBA	PFAS by ID	4.4		ng/L	6
001	MW-1	Aqueous	PFOA	PFAS by ID	1.3	J	ng/L	6
001	MW-1	Aqueous	PFPeA	PFAS by ID	2.7	J	ng/L	6
001	MW-1	Aqueous	PFOS	PFAS by ID	4.7		ng/L	6
002	MW-4	Aqueous	EtFOSAA	PFAS by ID	20		ng/L	8
002	MW-4	Aqueous	MeFOSAA	PFAS by ID	63		ng/L	8
002	MW-4	Aqueous	PFBS	PFAS by ID	12		ng/L	8
002	MW-4	Aqueous	PFHpS	PFAS by ID	1.9	J	ng/L	8
002	MW-4	Aqueous	PFOSA	PFAS by ID	2.8	J	ng/L	8
002	MW-4	Aqueous	PFPeS	PFAS by ID	8.1		ng/L	8
002	MW-4	Aqueous	PFHxS	PFAS by ID	20		ng/L	8
002	MW-4	Aqueous	PFBA	PFAS by ID	14		ng/L	8
002	MW-4	Aqueous	PFHpA	PFAS by ID	14		ng/L	8
002	MW-4	Aqueous	PFHxA	PFAS by ID	28		ng/L	8
002	MW-4	Aqueous	PFNA	PFAS by ID	0.71	J	ng/L	8
002	MW-4	Aqueous	PFOA	PFAS by ID	74		ng/L	8
002	MW-4	Aqueous	PFPeA	PFAS by ID	11		ng/L	8
002	MW-4	Aqueous	PFOS	PFAS by ID	44		ng/L	8
003	MW-5	Aqueous	EtFOSAA	PFAS by ID	2.5	J	ng/L	10
003	MW-5	Aqueous	MeFOSAA	PFAS by ID	3.8	J	ng/L	10
003	MW-5	Aqueous	PFBS	PFAS by ID	26		ng/L	10
003	MW-5	Aqueous	PFHpS	PFAS by ID	17		ng/L	10
003	MW-5	Aqueous	PFOSA	PFAS by ID	8.5		ng/L	10
003	MW-5	Aqueous	PFPeS	PFAS by ID	29		ng/L	10
003	MW-5	Aqueous	PFHxS	PFAS by ID	97		ng/L	10
003	MW-5	Aqueous	PFBA	PFAS by ID	17		ng/L	10
003	MW-5	Aqueous	PFDA	PFAS by ID	0.59	J	ng/L	10
003	MW-5	Aqueous	PFHpA	PFAS by ID	27		ng/L	10
003	MW-5	Aqueous	PFHxA	PFAS by ID	33		ng/L	10
003	MW-5	Aqueous	PFNA	PFAS by ID	2.9	J	ng/L	10
003	MW-5	Aqueous	PFOA	PFAS by ID	260		ng/L	10
003	MW-5	Aqueous	PFPeA	PFAS by ID	14		ng/L	10
003	MW-5	Aqueous	PFOS	PFAS by ID	660		ng/L	10
004	MW-6	Aqueous	PFBS	PFAS by ID	1.8	J	ng/L	12
004	MW-6	Aqueous	PFBA	PFAS by ID	5.8		ng/L	12
004	MW-6	Aqueous	PFHpA	PFAS by ID	1.0	J	ng/L	12
004	MW-6	Aqueous	PFHxA	PFAS by ID	2.5	J	ng/L	12
004	MW-6	Aqueous		PFAS by ID	2.0	J	ng/L	12
004	MW-6	Aqueous	PFPeA	PFAS by ID	2.8	J	ng/L	12
005	MW-7	Aqueous		PFAS by ID	41		ng/L	14
005	MW-7	Aqueous		PFAS by ID	11		ng/L	14
			•	<u> </u>				

Detection Summary (Continued)

Lot Number: YF13013

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
005	MW-7	Aqueous	PFPeS	PFAS by ID	39		ng/L	14
005	MW-7	Aqueous	PFHxS	PFAS by ID	110		ng/L	14
005	MW-7	Aqueous	PFBA	PFAS by ID	40		ng/L	14
005	MW-7	Aqueous	PFHpA	PFAS by ID	58		ng/L	14
005	MW-7	Aqueous	PFHxA	PFAS by ID	94		ng/L	14
005	MW-7	Aqueous	PFNA	PFAS by ID	1.9	J	ng/L	14
005	MW-7	Aqueous	PFOA	PFAS by ID	470		ng/L	14
005	MW-7	Aqueous	PFPeA	PFAS by ID	38		ng/L	14
005	MW-7	Aqueous	PFOS	PFAS by ID	170		ng/L	14

(52 detections)

Client: Pace Analytical Services, LLC

Laboratory ID: YF13013-001

Description: MW-1 Matrix: Aqueous

Date Sampled:06/09/2023 1155 Project Name: 0054 2644-WALMART

Date Received: 06/13/2023 Project Number: 40263440

RunPrep MethodAnalytical MethodDilutionAnalysis DateAnalystPrep DateBatch1SOP SPEPFAS by ID SOP106/27/2023 2316 ARC206/26/2023 1009 78566

Parameter	CAS Number	Analytical Method	Result Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS	5) 756426-58-1	PFAS by ID SOP	ND	7.4	0.45	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3.)763051-92-9	PFAS by ID SOP	ND	7.4	0.61	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	7.4	1.5	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	7.4	1.9	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	7.4	0.81	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND	7.4	1.9	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND	7.4	0.45	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND	7.4	1.3	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	7.4	0.70	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND	7.4	0.88	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND	15	1.2	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND	7.4	0.86	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND	7.4	1.2	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	0.51 J	3.7	0.38	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND	3.7	0.72	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND	3.7	0.46	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND	3.7	0.66	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND	3.7	0.57	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND	3.7	0.55	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND	7.4	0.97	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	0.95 J	3.7	0.51	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	4.4	3.7	0.56	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND	3.7	0.49	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND	3.7	0.44	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND	3.7	0.41	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND	3.7	0.64	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND	3.7	0.43	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	1.3 J	3.7	0.77	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	2.7 J	3.7	0.50	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND	3.7	0.56	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND	3.7	0.49	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND	3.7	0.58	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	4.7	3.7	1.9	ng/L	1

Surrogate	Run 1 Q % Recovery	Acceptance Limits
13C2_4:2FTS	110	25-150
13C2_6:2FTS	107	25-150
13C2_8:2FTS	93	25-150
13C2_PFDoA	86	25-150
13C2_PFTeDA	81	25-150
13C3_PFBS	110	25-150
13C3_PFHxS	105	25-150
13C3-HFPO-DA	107	25-150
13C4_PFBA	93	25-150

LOQ = Limit of Quantitation

B = Detected in the method blank

D = Quantitation of compound exceeded the calibration range

D = Detection Limit

Q = Surrogate failure

D = Detection Limit

Q = Surrogate failure

D = Detection Limit

D = Surrogate failure

D = Estimated result < LOQ and ≥ DL

L = LCS/LCSD failure

D = Surrogate failure

D = Surrogate failure

D = Surrogate failure

D = Surrogate failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Laboratory ID: YF13013-001 Description: MW-1 Matrix: Aqueous

Date Sampled: 06/09/2023 1155 Project Name: 0054 2644-WALMART

Date Received: 06/13/2023 Project Number: 40263440

	un 1 covery	Acceptance Limits
13C4_PFHpA	103	25-150
13C5_PFHxA	103	25-150
13C5_PFPeA	103	25-150
13C6_PFDA	97	25-150
13C7_PFUdA	88	25-150
13C8_PFOA	115	25-150
13C8_PFOS	90	25-150
13C8_PFOSA	97	10-150
13C9_PFNA	95	25-150
d-EtFOSA	67	10-150
d5-EtFOSAA	101	25-150
d9-EtFOSE	80	10-150
d-MeFOSA	61	10-150
d3-MeFOSAA	99	25-150
d7-MeFOSE	82	10-150

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

B = Detected in the method blank N = Recovery is out of criteria W = Reported on wet weight basis E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

DL = Detection Limit J = Estimated result < LOQ and \geq DL

Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Laboratory ID: YF13013-002

Description: MW-4 Matrix: Aqueous

Date Sampled:06/09/2023 1230 Project Name: 0054 2644-WALMART

Date Received: 06/13/2023 Project Number: 40263440

RunPrep MethodAnalytical MethodDilutionAnalysis DateAnalystPrep DateBatch1SOP SPEPFAS by ID SOP106/27/2023 2326 ARC206/26/2023 1009 78566

Parameter	CAS Number	Analytical Method	Result Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS	6) 756426-58-1	PFAS by ID SOP	ND	7.4	0.45	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3)763051-92-9	PFAS by ID SOP	ND	7.4	0.62	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	7.4	1.5	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	7.4	1.9	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	7.4	0.81	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND	7.4	1.9	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND	7.4	0.45	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND	7.4	1.3	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA) 2991-50-6	PFAS by ID SOP	20	7.4	0.70	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND	7.4	0.89	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND	15	1.2	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSA	AA) 2355-31-9	PFAS by ID SOP	63	7.4	0.87	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND	7.4	1.2	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	12	3.7	0.39	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND	3.7	0.72	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	1.9 J	3.7	0.46	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND	3.7	0.66	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	2.8 J	3.7	0.57	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	8.1	3.7	0.55	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND	7.4	0.97	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	20	3.7	0.51	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	14	3.7	0.56	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND	3.7	0.49	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND	3.7	0.44	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	14	3.7	0.42	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	28	3.7	0.64	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	0.71 J	3.7	0.43	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	74	3.7	0.77	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	11	3.7	0.51	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND	3.7	0.56	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND	3.7	0.49	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND	3.7	0.58	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	44	3.7	1.9	ng/L	1

Surrogate	Run 1 Q % Recovery	Acceptance Limits
13C2_4:2FTS	144	25-150
13C2_6:2FTS	104	25-150
13C2_8:2FTS	92	25-150
13C2_PFDoA	81	25-150
13C2_PFTeDA	78	25-150
13C3_PFBS	101	25-150
13C3_PFHxS	102	25-150
13C3-HFPO-DA	98	25-150
13C4_PFBA	85	25-150

LOQ = Limit of Quantitation

B = Detected in the method blank

D = Quantitation of compound exceeded the calibration range

D = Detection Limit

Q = Surrogate failure

D = Detection Limit

Q = Surrogate failure

D = The RPD between two GC columns exceeds 40%

D = Estimated result < LOQ and ≥ DL

L = LCS/LCSD failure

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Laboratory ID: YF13013-002 Description: MW-4 Matrix: Aqueous

Date Sampled: 06/09/2023 1230 Project Name: 0054 2644-WALMART

Date Received: 06/13/2023 Project Number: 40263440

Surrogate	Run 1 A Q % Recovery	Acceptance Limits
13C4_PFHpA	96	25-150
13C5_PFHxA	99	25-150
13C5_PFPeA	101	25-150
13C6_PFDA	97	25-150
13C7_PFUdA	84	25-150
13C8_PFOA	114	25-150
13C8_PFOS	85	25-150
13C8_PFOSA	89	10-150
13C9_PFNA	93	25-150
d-EtFOSA	59	10-150
d5-EtFOSAA	89	25-150
d9-EtFOSE	70	10-150
d-MeFOSA	64	10-150
d3-MeFOSAA	92	25-150
d7-MeFOSE	72	10-150

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

B = Detected in the method blank N = Recovery is out of criteria W = Reported on wet weight basis E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

DL = Detection Limit J = Estimated result < LOQ and \geq DL

Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Laboratory ID: YF13013-003

Description: MW-5 Matrix: Aqueous

Date Sampled:06/09/2023 1325 Project Name: 0054 2644-WALMART

Date Received: 06/13/2023 Project Number: 40263440

Run Prep Method **Analytical Method Dilution Analysis Date Analyst Prep Date** Batch 1 SOP SPE PFAS by ID SOP 06/27/2023 2337 ARC2 06/26/2023 1009 78566 2 SOP SPE PFAS by ID SOP 5 06/28/2023 1616 ARC2 06/26/2023 1009 78566

Parameter	CAS Number	Analytical Method	Result Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS	756426-58-1	PFAS by ID SOP	ND	7.3	0.44	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3	.)763051-92-9	PFAS by ID SOP	ND	7.3	0.60	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	7.3	1.5	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	7.3	1.8	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND Q	7.3	0.80	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND	7.3	1.9	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND	7.3	0.44	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND Q	7.3	1.2	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	2.5 J	7.3	0.68	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND	7.3	0.87	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND	15	1.1	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSA	A) 2355-31-9	PFAS by ID SOP	3.8 J	7.3	0.85	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND	7.3	1.2	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	26	3.6	0.38	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND	3.6	0.71	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	17	3.6	0.45	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND	3.6	0.65	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	8.5	3.6	0.56	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	29	3.6	0.54	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND	7.3	0.95	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	97	3.6	0.50	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	17	3.6	0.55	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	0.59 J	3.6	0.48	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND	3.6	0.43	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	27	3.6	0.41	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	33	3.6	0.63	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	2.9 J	3.6	0.42	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	260	3.6	0.75	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	14	3.6	0.50	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND	3.6	0.55	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND	3.6	0.48	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND	3.6	0.57	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	660	18	9.1	ng/L	2
Surrogate Q % R	ecovery L		Run 2 Acceptant Recovery Limits	ce			
13C2_4:2FTS N	197	25-150	118 25-150				
13C2_6:2FTS	125	25-150	95 25-150				
13C2_8:2FTS	83	25-150	94 25-150				
13C2_PFDoA	74	25-150	79 25-150				

Surrogate	Q	% Recovery	Limits	Q	% Recovery	Limits
13C2_4:2FTS	N	197	25-150		118	25-150
13C2_6:2FTS		125	25-150		95	25-150
13C2_8:2FTS		83	25-150		94	25-150
13C2_PFDoA		74	25-150		79	25-150
13C2_PFTeDA		43	25-150		74	25-150
13C3_PFBS		93	25-150		104	25-150
13C3_PFHxS		97	25-150		95	25-150
13C3-HFPO-DA		92	25-150		99	25-150

 LOQ = Limit of Quantitation
 B = Detected in the method blank
 E = Quantitation of compound exceeded the calibration range
 DL = Detection Limit
 Q = Surrogate failure

 ND = Not detected at or above the DL
 N = Recovery is out of criteria
 P = The RPD between two GC columns exceeds 40%
 J = Estimated result < LOQ and ≥ DL</td>
 L = LCS/LCSD failure

 H = Out of holding time
 W = Reported on wet weight basis
 S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Laboratory ID: YF13013-003 Description: MW-5 Matrix: Aqueous

Date Sampled: 06/09/2023 1325 Project Name: 0054 2644-WALMART

Date Received: 06/13/2023 Project Number: 40263440

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 A % Recovery	cceptance Limits
13C4_PFBA		64	25-150		99	25-150
13C4_PFHpA		85	25-150		97	25-150
13C5_PFHxA		94	25-150		104	25-150
13C5_PFPeA		91	25-150		107	25-150
13C6_PFDA		96	25-150		95	25-150
13C7_PFUdA		82	25-150		91	25-150
13C8_PFOA		113	25-150		105	25-150
13C8_PFOS		82	25-150		91	25-150
13C8_PFOSA		83	10-150		85	10-150
13C9_PFNA		86	25-150		94	25-150
d-EtFOSA	Ν	7.3	10-150	Ν	8.1	10-150
d5-EtFOSAA		90	25-150		80	25-150
d9-EtFOSE		46	10-150		49	10-150
d-MeFOSA		12	10-150		15	10-150
d3-MeFOSAA		87	25-150		92	25-150
d7-MeFOSE		51	10-150		66	10-150

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

B = Detected in the method blank N = Recovery is out of criteria W = Reported on wet weight basis E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

DL = Detection Limit J = Estimated result < LOQ and \geq DL

Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

Client: Pace Analytical Services, LLC

Laboratory ID: YF13013-004

Description: MW-6 Matrix: Aqueous

Date Sampled:06/09/2023 1255 Project Name: 0054 2644-WALMART

Date Received: 06/13/2023 Project Number: 40263440

RunPrep MethodAnalytical MethodDilutionAnalysis DateAnalystPrep DateBatch1SOP SPEPFAS by ID SOP106/27/2023 2358 ARC206/26/2023 1009 78566

2-9	PFAS by ID SOP PFAS by ID SOP	ND		7.2			
	PFAS by ID SOP			7.3	0.44	ng/L	1
4-4	,	ND		7.3	0.60	ng/L	1
	PFAS by ID SOP	ND		7.3	1.5	ng/L	1
7-2	PFAS by ID SOP	ND		7.3	1.8	ng/L	1
2-4	PFAS by ID SOP	ND		7.3	0.80	ng/L	1
3-6	PFAS by ID SOP	ND		7.3	1.9	ng/L	1
4-4	PFAS by ID SOP	ND		7.3	0.44	ng/L	1
0-2	PFAS by ID SOP	ND		7.3	1.2	ng/L	1
0-6	PFAS by ID SOP	ND		7.3	0.68	ng/L	1
9-2	PFAS by ID SOP	ND		7.3	0.87	ng/L	1
2-8	PFAS by ID SOP	ND		15	1.1	ng/L	1
1-9	PFAS by ID SOP	ND		7.3	0.85	ng/L	1
9-7	PFAS by ID SOP	ND		7.3	1.2	ng/L	1
3-5	PFAS by ID SOP	1.8 J	J	3.6	0.38	ng/L	1
7-3	PFAS by ID SOP	ND		3.6	0.71	ng/L	1
2-8	PFAS by ID SOP	ND		3.6	0.45	ng/L	1
2-1	PFAS by ID SOP	ND		3.6	0.65	ng/L	1
1-6	PFAS by ID SOP	ND		3.6	0.56	ng/L	1
1-4	PFAS by ID SOP	ND		3.6	0.54	ng/L	1
9-5	PFAS by ID SOP	ND		7.3	0.95	ng/L	1
6-4	PFAS by ID SOP	ND		3.6	0.50	ng/L	1
2-4	PFAS by ID SOP	5.8		3.6	0.55	ng/L	1
6-2	PFAS by ID SOP	ND		3.6	0.48	ng/L	1
5-1	PFAS by ID SOP	ND		3.6	0.43	ng/L	1
5-9	PFAS by ID SOP	1.0 J	J	3.6	0.41	ng/L	1
4-4	PFAS by ID SOP	2.5	J	3.6	0.63	ng/L	1
5-1	PFAS by ID SOP	ND		3.6	0.42	ng/L	1
7-1	PFAS by ID SOP	2.0	J	3.6	0.75	ng/L	1
0-3	PFAS by ID SOP	2.8	J	3.6	0.50	ng/L	1
6-7	PFAS by ID SOP	ND		3.6	0.55	ng/L	1
4-8	PFAS by ID SOP	ND		3.6	0.48	ng/L	1
4-8	PFAS by ID SOP	ND		3.6	0.57	ng/L	1
3-1	PFAS by ID SOP	ND		3.6	1.8	ng/L	1
	9-5 6-4 2-4 6-2 5-1 5-9 4-4 5-1 7-1 0-3 6-7 4-8	9-5 PFAS by ID SOP 6-4 PFAS by ID SOP 2-4 PFAS by ID SOP 6-2 PFAS by ID SOP 6-1 PFAS by ID SOP 9-5-1 PFAS by ID SOP 9-5-1 PFAS by ID SOP 9-6-1 PFAS by ID SOP 9-6-7 PFAS by ID SOP 6-7 PFAS by ID SOP 9-6-7 PFAS by ID SOP 9-6-7 PFAS by ID SOP 9-6-8 PFAS by ID SOP 9-6-8 PFAS by ID SOP 9-6-9 PFAS by ID SOP	9-5 PFAS by ID SOP ND 6-4 PFAS by ID SOP ND 2-4 PFAS by ID SOP S.8 6-2 PFAS by ID SOP ND 5-1 PFAS by ID SOP ND 5-9 PFAS by ID SOP 1.0 6-1 PFAS by ID SOP ND 7-1 PFAS by ID SOP 2.0 6-7 PFAS by ID SOP ND 6-7 PFAS by ID SOP ND 6-8 PFAS by ID SOP ND 6-9 PFAS by ID SOP ND	9-5 PFAS by ID SOP ND 2-4 PFAS by ID SOP S.8 6-2 PFAS by ID SOP ND 5-1 PFAS by ID SOP ND 5-9 PFAS by ID SOP 1.0 J 4-4 PFAS by ID SOP ND 5-1 PFAS by ID SOP ND 6-7 PFAS by ID SOP ND 7-1 PFAS by ID SOP ND 7-1 PFAS by ID SOP 2.0 J 0-3 PFAS by ID SOP ND 6-7 PFAS by ID SOP ND 6-7 PFAS by ID SOP ND 6-8 PFAS by ID SOP ND 6-9 PFAS by ID SOP ND	9-5 PFAS by ID SOP ND 7.3 6-4 PFAS by ID SOP ND 3.6 6-2 PFAS by ID SOP ND 3.6 6-2 PFAS by ID SOP ND 3.6 5-1 PFAS by ID SOP ND 3.6 5-9 PFAS by ID SOP 1.0 J 3.6 5-1 PFAS by ID SOP ND 3.6 6-7 PFAS by ID SOP ND 3.6 6-7 PFAS by ID SOP 2.0 J 3.6 6-7 PFAS by ID SOP ND 3.6 6-8 PFAS by ID SOP ND 3.6 6-9 PFAS by ID SOP ND 3.6	9-5 PFAS by ID SOP ND 3.6 0.50 2-4 PFAS by ID SOP ND 3.6 0.55 6-2 PFAS by ID SOP ND 3.6 0.48 5-1 PFAS by ID SOP ND 3.6 0.43 5-9 PFAS by ID SOP 1.0 J 3.6 0.41 4-4 PFAS by ID SOP ND 3.6 0.63 5-1 PFAS by ID SOP ND 3.6 0.63 5-1 PFAS by ID SOP ND 3.6 0.63 5-1 PFAS by ID SOP ND 3.6 0.55 6-7 PFAS by ID SOP 2.0 J 3.6 0.75 0-3 PFAS by ID SOP 2.8 J 3.6 0.50 6-7 PFAS by ID SOP ND 3.6 0.55 4-8 PFAS by ID SOP ND 3.6 0.48 4-8 PFAS by ID SOP ND 3.6 0.57	9-5 PFAS by ID SOP ND 3.6 0.50 ng/L 2-4 PFAS by ID SOP ND 3.6 0.55 ng/L 6-2 PFAS by ID SOP ND 3.6 0.48 ng/L 5-1 PFAS by ID SOP ND 3.6 0.43 ng/L 5-9 PFAS by ID SOP 1.0 J 3.6 0.41 ng/L 4-4 PFAS by ID SOP ND 3.6 0.42 ng/L 5-1 PFAS by ID SOP ND 3.6 0.42 ng/L 5-1 PFAS by ID SOP ND 3.6 0.42 ng/L 5-1 PFAS by ID SOP ND 3.6 0.55 ng/L 6-7 PFAS by ID SOP 2.0 J 3.6 0.50 ng/L 6-7 PFAS by ID SOP ND 3.6 0.50 ng/L 6-7 PFAS by ID SOP ND 3.6 0.55 ng/L 6-7 PFAS by ID SOP ND 3.6 0.55 ng/L 4-8 PFAS by ID SOP ND 3.6 0.48 ng/L 4-8 PFAS by ID SOP ND 3.6 0.57 ng/L

13C2_4:2FTS 111 25-150 13C2_6:2FTS 83 25-150 13C2_8:2FTS 70 25-150 13C2_PFDOA 75 25-150 13C2_PFTeDA 72 25-150 13C3_PFBS 87 25-150 13C3_PFHxS 90 25-150 13C3-HFPO-DA 85 25-150	Surrogate	Run 1 Q % Recovery	Acceptance Limits
13C2_8:2FTS 70 25-150 13C2_PFDoA 75 25-150 13C2_PFTeDA 72 25-150 13C3_PFBS 87 25-150 13C3_PFHxS 90 25-150	13C2_4:2FTS	111	25-150
13C2_PFDoA 75 25-150 13C2_PFTeDA 72 25-150 13C3_PFBS 87 25-150 13C3_PFHxS 90 25-150	13C2_6:2FTS	83	25-150
13C2_PFTeDA 72 25-150 13C3_PFBS 87 25-150 13C3_PFHxS 90 25-150	13C2_8:2FTS	70	25-150
13C3_PFBS 87 25-150 13C3_PFHxS 90 25-150	13C2_PFDoA	75	25-150
13C3_PFHxS 90 25-150	13C2_PFTeDA	72	25-150
_	13C3_PFBS	87	25-150
13C3-HFPO-DA 85 25-150	13C3_PFHxS	90	25-150
	13C3-HFPO-DA	85	25-150
13C4_PFBA 70 25-150	13C4_PFBA	70	25-150

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

H = Out of holding time

W = Reported on wet weight basis

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

D = Estimated result < LOQ and ≥ DL

L = LCS/LCSD failure

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Laboratory ID: YF13013-004 Description: MW-6 Matrix: Aqueous

Date Sampled: 06/09/2023 1255 Project Name: 0054 2644-WALMART

Project Number: 40263440 Date Received: 06/13/2023

Surrogate	Run 1 A Q % Recovery	cceptance Limits	
13C4_PFHpA	86	25-150	
13C5_PFHxA	83	25-150	
13C5_PFPeA	84	25-150	
13C6_PFDA	86	25-150	
13C7_PFUdA	77	25-150	
13C8_PFOA	94	25-150	
13C8_PFOS	71	25-150	
13C8_PFOSA	81	10-150	
13C9_PFNA	81	25-150	
d-EtFOSA	52	10-150	
d5-EtFOSAA	80	25-150	
d9-EtFOSE	68	10-150	
d-MeFOSA	50	10-150	
d3-MeFOSAA	84	25-150	
d7-MeFOSE	69	10-150	

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

B = Detected in the method blank N = Recovery is out of criteria W = Reported on wet weight basis E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

DL = Detection Limit J = Estimated result < LOQ and \geq DL

Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Laboratory ID: YF13013-005

Description: MW-7 Matrix: Aqueous

Date Sampled:06/09/2023 1350 Project Name: 0054 2644-WALMART

Date Received: 06/13/2023 Project Number: 40263440

Run Prep Method **Analytical Method Dilution Analysis Date Analyst Prep Date** Batch 1 SOP SPE PFAS by ID SOP 06/28/2023 0009 ARC2 06/26/2023 1009 78566 2 SOP SPE PFAS by ID SOP 5 06/26/2023 1009 78566 06/28/2023 1627 ARC2

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS	5) 756426-58-1	PFAS by ID SOP	ND		7.2	0.43	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3.)763051-92-9	PFAS by ID SOP	ND		7.2	0.59	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		7.2	1.4	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		7.2	1.8	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND (Q	7.2	0.78	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		7.2	1.9	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		7.2	0.43	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		7.2	1.2	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.2	0.67	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		7.2	0.85	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		14	1.1	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.2	0.83	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		7.2	1.2	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	41		3.6	0.37	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.6	0.70	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	11		3.6	0.45	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.6	0.64	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.6	0.55	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	39		3.6	0.53	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		7.2	0.94	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	110		3.6	0.49	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	40		3.6	0.54	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.6	0.47	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.6	0.42	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	58		3.6	0.40	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	94		3.6	0.62	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	1.9	J	3.6	0.41	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	470		18	3.7	ng/L	2
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	38		3.6	0.49	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.6	0.54	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.6	0.47	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.6	0.56	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	170		3.6	1.8	ng/L	1
		eptance imits Q %	Run 2 Ac Recovery	cceptance Limits				
13C2_4:2FTS N	164	25-150	112	25-150				
13C2_6:2FTS	116	25-150	102	25-150				
13C2_8:2FTS	86	25-150	93	25-150				
13C2_PFDoA	88	25-150	87	25-150				
13C2_PFTeDA	84	25-150	84	25-150				

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 / % Recovery	Acceptance Limits
13C2_4:2FTS	N	164	25-150		112	25-150
13C2_6:2FTS		116	25-150		102	25-150
13C2_8:2FTS		86	25-150		93	25-150
13C2_PFDoA		88	25-150		87	25-150
13C2_PFTeDA		84	25-150		84	25-150
13C3_PFBS		95	25-150		109	25-150
13C3_PFHxS		102	25-150		92	25-150
13C3-HFPO-DA		91	25-150		108	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $J = Estimated result < LOQ and <math>\geq DL$ L = LCS/LCSD failure H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Laboratory ID: YF13013-005 Description: MW-7 Matrix: Aqueous

Date Sampled: 06/09/2023 1350 Project Name: 0054 2644-WALMART

Project Number: 40263440 Date Received: 06/13/2023

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits	
13C4_PFBA		60	25-150		98	25-150	
13C4_PFHpA		89	25-150		100	25-150	
13C5_PFHxA		95	25-150		106	25-150	
13C5_PFPeA		85	25-150		105	25-150	
13C6_PFDA		97	25-150		106	25-150	
13C7_PFUdA		81	25-150		93	25-150	
13C8_PFOA		110	25-150		109	25-150	
13C8_PFOS		92	25-150		100	25-150	
13C8_PFOSA		99	10-150		96	10-150	
13C9_PFNA		92	25-150		93	25-150	
d-EtFOSA		71	10-150		81	10-150	
d5-EtFOSAA		92	25-150		89	25-150	
d9-EtFOSE		78	10-150		77	10-150	
d-MeFOSA		73	10-150		74	10-150	
d3-MeFOSAA		96	25-150		94	25-150	
d7-MeFOSE		80	10-150		81	10-150	

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

B = Detected in the method blank N = Recovery is out of criteria W = Reported on wet weight basis E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

DL = Detection Limit J = Estimated result < LOQ and \geq DL

Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Laboratory ID: YF13013-006 Matrix: Aqueous

Description: FIELD BLANK Date Sampled: 06/09/2023 1320

Project Name: 0054 2644-WALMART

Date Received: 06/13/2023

Project Number: 40263440

Run Prep Method **Analytical Method Dilution** Analysis Date Analyst **Prep Date** Batch SOP SPE PFAS by ID SOP 06/28/2023 0019 ARC2 06/26/2023 1009 78566

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS) 756426-58-1	PFAS by ID SOP	ND		7.5	0.45	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3.)763051-92-9	PFAS by ID SOP	ND		7.5	0.62	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		7.5	1.5	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		7.5	0.82	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		7.5	0.45	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		7.5	1.3	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.5	0.70	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		7.5	0.89	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		15	1.2	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.5	0.87	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		7.5	1.2	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		3.7	0.39	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.7	0.73	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.7	0.47	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.7	0.66	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.7	0.57	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.7	0.55	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		7.5	0.98	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.7	0.51	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		3.7	0.56	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.7	0.49	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.7	0.44	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.7	0.42	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.7	0.64	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.7	0.43	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.7	0.77	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.7	0.51	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.7	0.56	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.7	0.49	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.7	0.58	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.7	1.9	ng/L	1

Surrogate	Run 1 Q % Recovery	Acceptance Limits		
13C2_4:2FTS	92	25-150		
13C2_6:2FTS	101	25-150		
13C2_8:2FTS	83	25-150		
13C2_PFDoA	84	25-150		
13C2_PFTeDA	85	25-150		
13C3_PFBS	98	25-150		
13C3_PFHxS	98	25-150		
13C3-HFPO-DA	103	25-150		
13C4_PFBA	96	25-150		

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $J = Estimated result < LOQ and <math>\geq DL$ L = LCS/LCSD failure H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Description: FIELD BLANK

Project Name: 0054 2644-WALMART

Matrix: Aqueous

Laboratory ID: YF13013-006

Date Sampled: 06/09/2023 1320

Date Received: 06/13/2023 Project Number: 40263440

Run 1 % Recovery	Acceptance Limits
98	25-150
90	25-150
91	25-150
96	25-150
88	25-150
111	25-150
85	25-150
90	10-150
89	25-150
68	10-150
92	25-150
78	10-150
65	10-150
93	25-150
83	10-150
	98 90 91 96 88 111 85 90 89 68 92 78 65 93

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

B = Detected in the method blank N = Recovery is out of criteria W = Reported on wet weight basis E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

DL = Detection Limit J = Estimated result < LOQ and \geq DL

Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

QC Summary

Page 24 of 36

PFAS by LC/MS/MS - MB

Sample ID: YQ78566-001

Batch: 78566

Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE

Prep Date: 06/26/2023 1009

Parameter	Result	Q Dil	LOQ	MDL	Units	Analysis Date
9CI-PF3ONS	ND	1	8.0	0.48	ng/L	06/27/2023 2255
11CI-PF3OUdS	ND	1	8.0	0.66	ng/L	06/27/2023 2255
8:2 FTS	ND	1	8.0	1.6	ng/L	06/27/2023 2255
6:2 FTS	ND	1	8.0	2.0	ng/L	06/27/2023 2255
4:2 FTS	ND	1	8.0	0.87	ng/L	06/27/2023 2255
GenX	ND	1	8.0	2.1	ng/L	06/27/2023 2255
ADONA	ND	1	8.0	0.48	ng/L	06/27/2023 2255
EtFOSA	ND	1	8.0	1.4	ng/L	06/27/2023 2255
EtFOSAA	ND	1	8.0	0.75	ng/L	06/27/2023 2255
EtFOSE	ND	1	8.0	0.95	ng/L	06/27/2023 2255
MeFOSA	ND	1	16	1.3	ng/L	06/27/2023 2255
MeFOSAA	ND	1	8.0	0.93	ng/L	06/27/2023 2255
MeFOSE	ND	1	8.0	1.3	ng/L	06/27/2023 2255
PFBS	ND	1	4.0	0.41	ng/L	06/27/2023 2255
PFDS	ND	1	4.0	0.78	ng/L	06/27/2023 2255
PFHpS	ND	1	4.0	0.50	ng/L	06/27/2023 2255
PFNS	ND	1	4.0	0.71	ng/L	06/27/2023 2255
PFOSA	ND	1	4.0	0.61	ng/L	06/27/2023 2255
PFPeS	ND	1	4.0	0.59	ng/L	06/27/2023 2255
PFDOS	ND	1	8.0	1.0	ng/L	06/27/2023 2255
PFHxS	ND	1	4.0	0.55	ng/L	06/27/2023 2255
PFBA	ND	1	4.0	0.60	ng/L	06/27/2023 2255
PFDA	ND	1	4.0	0.52	ng/L	06/27/2023 2255
PFDoA	ND	1	4.0	0.47	ng/L	06/27/2023 2255
PFHpA	ND	1	4.0	0.45	ng/L	06/27/2023 2255
PFHxA	ND	1	4.0	0.69	ng/L	06/27/2023 2255
PFNA	ND	1	4.0	0.46	ng/L	06/27/2023 2255
PFOA	ND	1	4.0	0.83	ng/L	06/27/2023 2255
PFPeA	ND	1	4.0	0.54	ng/L	06/27/2023 2255
PFTeDA	ND	1	4.0	0.60	ng/L	06/27/2023 2255
PFTrDA	ND	1	4.0	0.53	ng/L	06/27/2023 2255
PFUdA	ND	1	4.0	0.63	ng/L	06/27/2023 2255
PFOS	ND	1	4.0	2.0	ng/L	06/27/2023 2255
Surrogate	Q % Rec	Acceptance Limit				
13C2_4:2FTS	83	25-150				
13C2_6:2FTS	88	25-150				
13C2_8:2FTS	77	25-150				
13C2_PFDoA	83	25-150				
13C2_PFTeDA	80	25-150				
13C3_PFBS	86	25-150				
13C3_PFHxS	95	25-150				
13C3-HFPO-DA	91	25-150				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

PFAS by LC/MS/MS - MB

Sample ID: YQ78566-001 **Batch:** 78566

Analytical Method: PFAS by ID SOP

Matrix: Aqueous Prep Method: SOP SPE

Prep Date: 06/26/2023 1009

Surrogate	Q % Rec	Acceptance Limit
13C4_PFBA	84	25-150
13C4_PFHpA	89	25-150
13C5_PFHxA	80	25-150
13C5_PFPeA	83	25-150
13C6_PFDA	83	25-150
13C7_PFUdA	78	25-150
13C8_PFOA	93	25-150
13C8_PFOS	76	25-150
13C8_PFOSA	80	10-150
13C9_PFNA	73	25-150
d-EtFOSA	58	10-150
d5-EtFOSAA	87	25-150
d9-EtFOSE	75	10-150
d-MeFOSA	59	10-150
d3-MeFOSAA	86	25-150
d7-MeFOSE	73	10-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

PFAS by LC/MS/MS - LCS

Sample ID: YQ78566-002

Batch: 78566

Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 06/26/2023 1009

	Spike				a. =	
Parameter	Amount (ng/L)	Result (ng/L) Q	Dil	% Rec	%Rec Limit	Analysis Date
9CI-PF3ONS	15	14	1	93	50-150	06/27/2023 2305
11CI-PF3OUdS	15	14	1	95	50-150	06/27/2023 2305
8:2 FTS	15	15	1	99	50-150	06/27/2023 2305
6:2 FTS	15	14	1	90	50-150	06/27/2023 2305
4:2 FTS	15	15	1	98	50-150	06/27/2023 2305
GenX	32	32	1	101	50-150	06/27/2023 2305
ADONA	15	16	1	106	50-150	06/27/2023 2305
EtFOSA	16	16	1	99	50-150	06/27/2023 2305
EtFOSAA	16	17	1	107	50-150	06/27/2023 2305
EtFOSE	16	16	1	98	50-150	06/27/2023 2305
MeFOSA	16	15	1	96	50-150	06/27/2023 2305
MeFOSAA	16	16	1	102	50-150	06/27/2023 2305
MeFOSE	16	15	1	91	50-150	06/27/2023 2305
PFBS	14	14	1	102	50-150	06/27/2023 2305
PFDS	15	14	1	93	50-150	06/27/2023 2305
PFHpS	15	16	1	105	50-150	06/27/2023 2305
PFNS	15	15	1	96	50-150	06/27/2023 2305
PFOSA	16	18	1	113	50-150	06/27/2023 2305
PFPeS	15	15	1	103	50-150	06/27/2023 2305
PFDOS	15	14	1	89	50-150	06/27/2023 2305
PFHxS	15	16	1	109	50-150	06/27/2023 2305
PFBA	16	16	1	102	50-150	06/27/2023 2305
PFDA	16	17	1	105	50-150	06/27/2023 2305
PFDoA	16	16	1	101	50-150	06/27/2023 2305
PFHpA	16	17	1	106	50-150	06/27/2023 2305
PFHxA	16	16	1	99	50-150	06/27/2023 2305
PFNA	16	17	1	103	50-150	06/27/2023 2305
PFOA	16	16	1	99	50-150	06/27/2023 2305
PFPeA	16	17	1	103	50-150	06/27/2023 2305
PFTeDA	16	16	1	102	50-150	06/27/2023 2305
PFTrDA	16	15	1	96	50-150	06/27/2023 2305
PFUdA	16	17	1	106	50-150	06/27/2023 2305
PFOS	15	15	1	103	50-150	06/27/2023 2305
Surrogate	Q % Rec	Acceptance Limit				
13C2_4:2FTS	93	25-150				
13C2_6:2FTS	97	25-150				
13C2_8:2FTS	88	25-150				
13C2_PFDoA	96	25-150				
13C2_PFTeDA	95	25-150				
13C3_PFBS	97	25-150				
13C3_PFHxS	100	25-150				
13C3-HFPO-DA	107	25-150				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL P = The RPD between two GC columns exceeds 40%

+ = RPD is out of criteria

^{* =} RSD is out of criteria

PFAS by LC/MS/MS - LCS

Sample ID: YQ78566-002 Batch: 78566

Analytical Method: PFAS by ID SOP

Matrix: Aqueous Prep Method: SOP SPE

Prep Date: 06/26/2023 1009

Surrogate	Q % Rec	Acceptance Limit
13C4_PFBA	100	25-150
13C4_PFHpA	97	25-150
13C5_PFHxA	95	25-150
13C5_PFPeA	98	25-150
13C6_PFDA	93	25-150
13C7_PFUdA	89	25-150
13C8_PFOA	112	25-150
13C8_PFOS	94	25-150
13C8_PFOSA	94	10-150
13C9_PFNA	95	25-150
d-EtFOSA	61	10-150
d5-EtFOSAA	101	25-150
d9-EtFOSE	82	10-150
d-MeFOSA	60	10-150
d3-MeFOSAA	94	25-150
d7-MeFOSE	80	10-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

PFAS by LC/MS/MS - Duplicate

Sample ID: YF13013-003DU Batch: 78566 Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 06/26/2023 1009

Analytical Method: PFAS by ID SOP

Sample

Downwater	Amount	Result	0		0/ PPP	%RPD	Amalusia Data
Parameter	(ng/L)	(ng/L)	Q	Dil	% RPD	Limit	Analysis Date
9CI-PF3ONS	ND	ND		1	0.00	20	06/27/2023 2348
11CI-PF3OUdS	ND ND	ND		1	0.00	20	06/27/2023 2348
8:2 FTS	ND	ND		1	0.00	20	06/27/2023 2348
6:2 FTS	ND	ND		1	0.00	20	06/27/2023 2348
4:2 FTS	ND	ND		1	0.00	20	06/27/2023 2348
GenX	ND	ND		1	0.00	20	06/27/2023 2348
ADONA EtFOSA	ND	ND ND		1 1	0.00 0.00	20 20	06/27/2023 2348 06/27/2023 2348
EtFOSAA	2.5	1.9	J,+	1	25	20	06/27/2023 2348
EtFOSE	ND	ND	3,+	1	0.00	20	06/27/2023 2348
MeFOSA	ND	ND		1	0.00	20	06/27/2023 2348
MeFOSAA	3.8	4.4	J	1	14	20	06/27/2023 2348
MeFOSE	ND	ND	3	1	0.00	20	06/27/2023 2348
PFBS	26	23		1	9.2	20	06/27/2023 2348
PFDS	ND	ND		1	0.00	20	06/27/2023 2348
PFHpS	17	15		1	12	20	06/27/2023 2348
PFNS	ND	ND		1	0.00	20	06/27/2023 2348
PFOSA	8.5	8.5		1	0.45	20	06/27/2023 2348
PFPeS	29	27		1	4.9	20	06/27/2023 2348
PFDOS	ND	ND		1	0.00	20	06/27/2023 2348
PFHxS	97	86		1	12	20	06/27/2023 2348
PFBA	17	16		1	3.1	20	06/27/2023 2348
PFDA	0.59	0.59	J	1	0.80	20	06/27/2023 2348
PFDoA	ND	ND	Ü	1	0.00	20	06/27/2023 2348
PFHpA	27	27		1	0.96	20	06/27/2023 2348
PFHxA	33	31		1	5.6	20	06/27/2023 2348
PFNA	2.9	2.6	J	1	11	20	06/27/2023 2348
PFOA	260	240		1	7.7	20	06/27/2023 2348
PFPeA	14	15		1	6.6	20	06/27/2023 2348
PFTeDA	ND	ND		1	0.00	20	06/27/2023 2348
PFTrDA	ND	ND		1	0.00	20	06/27/2023 2348
PFUdA	ND	ND		1	0.00	20	06/27/2023 2348
PFOS	680	620	Е	1	9.4	20	06/27/2023 2348
Surrogate	Q % Rec	Accept Lim	ance it				
13C2_4:2FTS	N 224	25-1	50				
13C2_6:2FTS	N 151	25-1	50				
13C2_8:2FTS	101	25-1					
13C2_PFDoA	90	25-1					
13C2_PFTeDA	100	25-1					
13C3_PFBS	108	25-1	50				
13C3_PFHxS	113	25-1	50				
13C3-HFPO-DA	109	25-1	50				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL P = The RPD between two GC columns exceeds 40%

+ = RPD is out of criteria

^{* =} RSD is out of criteria

PFAS by LC/MS/MS - Duplicate

Sample ID: YF13013-003DU Batch: 78566

Analytical Method: PFAS by ID SOP

Matrix: Aqueous Prep Method: SOP SPE

Prep Date: 06/26/2023 1009

Surrogate	Q % Rec	Acceptance Limit
13C4_PFBA	69	25-150
13C4_PFHpA	98	25-150
13C5_PFHxA	109	25-150
13C5_PFPeA	98	25-150
13C6_PFDA	106	25-150
13C7_PFUdA	102	25-150
13C8_PFOA	127	25-150
13C8_PFOS	102	25-150
13C8_PFOSA	107	10-150
13C9_PFNA	102	25-150
d-EtFOSA	76	10-150
d5-EtFOSAA	111	25-150
d9-EtFOSE	85	10-150
d-MeFOSA	71	10-150
d3-MeFOSAA	103	25-150
d7-MeFOSE	84	10-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

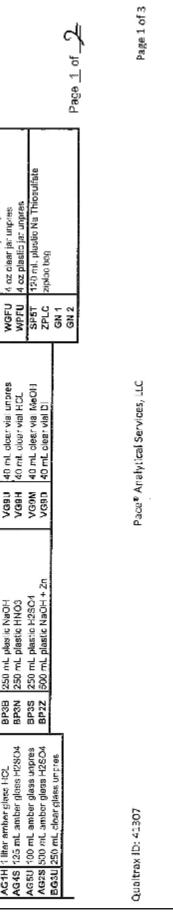
+ = RPD is out of criteria

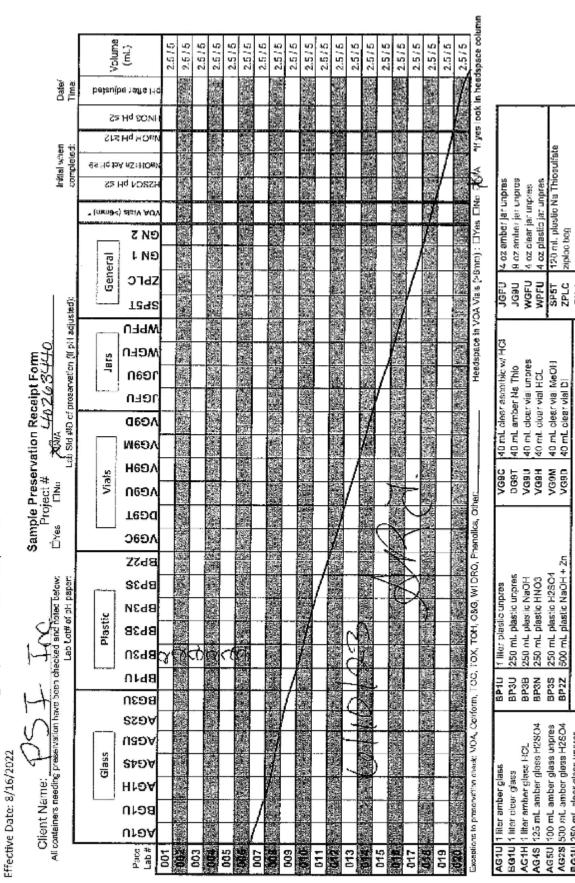
Chain of Custody and Miscellaneous Documents

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Monday, June 12, 2023 8:35:58 AM							FMT-A	FMT-ALL-C-002rev.00 247/arch2009	24N:arch2009	Page 1 of ;

PACE ANALYTICAL SERVICES, LLC

LAB USE ONLY. Affix Workorder/Login; Label Here or List Paèe W MTL: Login; Number Here	Illug Information: ALL SHADED AREAS are for LAB USE ONLY	Jame Container P		Grith Valuation	County/City: Time Zone		Compilance Monitoring? Control (Standarde) Transact (Standarde) Transac	DW PWS ID #: DW Location Code: (1.20) W. Mestion Code	Immediately Packed on Ico:	ON I	Fleid Fiftered (if applicable): Residual (if applicable): Residual (if if if it is a large Noxt Day	[] S Day Analysis	* Matrix Codes (Insert in Malrix box below): Drawing Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Soile (St), ON (OL), Wipe (WP), Air (AR), Tissue (19), Blossay (B), Vapor YN, Other (OT)	Res Hof	ste Time Date Tanc	7		1230 2 X X X X X X X X X X X X X X X X X X	13-25 X X X X X X X X X X X X X X X X X X X	Z X X		√ 13∞		The state of the s	More DV Note: Shrant light A PRESENT (272) runsh: Y. N. N/A National Sangle Temperature Info	2784853 Them 184	My Seened (500 cpm)). V N N N FEED UP! Client Const.	Received by/Company: (Signature) Date/Time: NOTECABUSE	Received by/Company: (Signature) Date/Tane: Ternature)	Resident By/Co
CHAIN-OF-CUS	Billing Information:	٠,	Email To:	Site Collection Info/Address:	County/City:		Compliance [] Yes	DW PWS ID:		() Yes	5-	γe⊖ 8{]	(DW), Ground Water (GW), Wastew seue (1S), Bloessay (B), Vapor (M, DR)	Collected (or Composite Composite	Date Time Date	_)	1230	13.25	1255	1350	4 1320		4			Radchem sumple(3) Screened (<500	1	2000	2
		Corporate Ct. Wankeship			1	dimon	Super radiility ID 45	Purchase Order 6: Quote #:	Tumeround Date Required:		Kusin: (Same bay	[] 2 Day [] 3 Day [] 4 Day (Expedit Charges Apply)	» below): Dranking Water Ll, Wipe (WP), Alr (AR), TI	Matrix * Grab	\exists	3	j	Ser.			>	or		ons / Possible Hazarde					_ (
Pace Analytical"	COMPANY: PST, I'M	5	Report Tor Patherson	Сару Ти:	Customer Project Name/Number:	1 10 1 10 10 10 10 10 10 10 10 10 10 10	Email:	Collected By Dayind:	Collected By (signably):	1 KM	Dispose as appropriate [] Return	[] Arctives [] Male:	* Matrix Codes (Insert in Matrix to: Product (P), Soil/Solid (St), ON (O	Customer Sample ID	2 / 20 /	/ Min/	F/W-2	M. M.	MW-5	14W-6	MW-7	Feld Blonk		Oustainer Remarks / Spacial Conditions / Possible Meanage				Relinquisting by/Configure; (Signature)	Relinguished by/Company: (Signature)	12





Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

DC#_Title: ENV-FRM-GBAY-0035 v03_Sample Preservation Receipt Form

PACE ANALYTICAL SERVICES, LLC

DC#_Title: ENV-FRM-GBAY-0014 v03_SCUR

Effective Date: 8/17/2022

Sample Condition U	pon Receip	t Form	(SCUR)
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	_	Project #:		
Client Name: 15 1			MO#:	40263440
Courier: CS Logistics Fed Ex Speed	dee 🖺 UPS 🗁	Waltco	115 11 11 11	
Client Pace Other:				
Tracking #:			40263440	
Custody Seal on Cooler/Box Present: pes		t: 🗀 yes 🏌 no		
Custody Seal on Samples Present: yes		t: 🖂 yes 🔀 no		
Packing Material: ☐ Bubble Wrap ☐ Bub		e Kother <u>C</u>	-101005	6/10/23 dRZ
Thermometer Used SR - 129 Cooler Temperature Uncorr: 100 iCorr:	Type of Ice: Well	Blue Dry None	Mettwater (Only Person examining contents:
Temp Blank Present: ves no		Tissue is Frozen: [Tyres Timo	1000
Temp should be above fræzing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on 0		made is mozem.	yest ind	Date (all // 23 Initials: Labeled By Initials:
Chain of Custody Present:	Øes □No □NA	VI.		tonicio di mindra.
Chain of Custody Filled Out:	Mas □N⊃ □NW	2.		
Chain of Custody Relinquished:	Marie One Only			
Sampler Name & Signature on COC:	No DN/			
Samples Arrived within Hold Time:	Øÿes □No	5.		
- Dt VOA Samples frozen upon receipt	□Yes □No	Date/Time:		
Short Hold Time Analysis (<72hr):	□Yes X iko	6.		
Rush Turn Around Time Requested:	□Yes 🕍o	7.		
Sufficient Volume:		8.		
For Analysis: 🗖 v̂es □No MS/MSD): □Yes ĎMo □N/A			1
Correct Containers Used:	iči√es ⊡No	9.		
Correct Type Pace Green Bay Pace IR, Non-Pac	е			
Containers Intect	GYes □No	10.		
Filtered volume received for Dissolved tests	□Yes □No) QÎŅVA	11.		
Sample Labels match COC:	Nes-QNo □N/A	12.		
-Includes date/time/ID/Analysis Matrix	'W			
Trip Blank Present:	□Yes Zunc □N/A	13.		
Trip Blank Custody Scals Present	□Yes Xoo □N/A			
Pace Trip Blank Lot # (if purchased);				
Client Notification/ Resolution: Person Contacted:	D-t-5		ecked, see attache	ed form for additional comments
Comments/ Resolution:	Date/	ime:		
PM Review is documented electronically in LIMs	s. By releasing the	project, the PM acki	nowledges they	have reviewed the sample logic
				Page 2 of 2
				-

Qualtrax ID: 41292

Page 1 of 2

Pace® Analytical Services, LLC

PACE ANALYTICAL SERVICES, LLC

DC#_Title: ENV-FRM-WCOL-0286 v02_Samples Receipt Checklist (SRC)

Effective Date: 8/2/2022

Sample Receipt Checklist (SRC)

Client: PACE Cooler Inspected by/date: BRB / 06/13/23 Lot #: YF13013	
Means of receipt: Pace Client UPS ✓ FedEx Other:	- 600
✓ Yes No 1. Were custody seals present on the cooler?	
✓ Yes No NA 2. If custody seals were present, were they intact and unbroken?	
pH Strip ID: NA Chlorine Strip ID: NA Tested by NA	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA 2.1 /2.1 °C NA /NA °C NA /NA °C NA /NA °C	
Method: ✓ Temperature Blank Against Bottles IR Gun ID: 8 IR Gun Correction Factor: OC	
Method of coolant: ✓ Wet Ice Ice Packs Dry Ice None	
[Z] Ves No No No A 3. Were all coolers received at or below 6.0°C? If no, was Project Manager notified?	_
PM was Notified by: phone / cmail / face-to-face (circle one).	
Yes No NA 4. Is the commercial counter's packing slip attached to this form?	
✓ Yes No. 5. Were proper custody procedures (relinquished/received) followed?	
Yes No 6. Were sample IDs listed on the COC and all sample containers?	
✓ Yes No 7. Was collection date & time fisted on the COC and all sample containers?	
✓ Yes No 8. Did all container label information (ID, date, time) agree with the COC?	
✓ Yes No 9. Were tests to be performed fisted on the COC?	
Yes No 10. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?	
√ Yes No 11. Was adequate sample volume available?	
√ Yes No 12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?	
✓ Yes No 13. Were all samples containers accounted for? (No missing/excess)	
Yes No No NA 14. Were VOA, 8015C and RSK-175 samples free of bubbles >"pea-size" (%"or 6mm in diameter) in any of the VOA vials?	
Yes No ✓ NA 15. Were all DRO/metals/matriem samples received at a pH of < 2?	
Yes No NA 16. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 92	,
Yes No No NA 17. Were all applicable NH ₃ /TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of	
residual chlorine?	
Yes No No NA 18. Was the quote number listed on the container label? If yes, Quote #	
cample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	_
sample(s) NA were received incorrectly preserved and were adjusted according	gly
in sample receiving with MA in L of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA	_
ime of preservation MA. If more than one preservative is needed, please note in the comments below.	
ample(s) NA were received with bubbles >6 mm in diameter.	
amples(s) NA were received with TRC > 0.5 mg/L (If #19 is no) and were	
djusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Unique ID: NA	
Comments:	
	_
	-
rax ID: 56360 Pace® Analytical Services, LLC Pa	ige 1