



Lake Killarney Board Regular Meeting

Agenda

January 7, 2026 @ 10:00 AM

City Hall Commission Chambers
401 S. Park Avenue

welcome

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please note

Times are projected and subject to change.

1. Call to Order

2. Approval of Minutes

- a. Minutes of December 3, 2025 1 Minute

3. Public Comments (for items not on the agenda): Three minutes allowed for each speaker

4. Public Hearings (Public participation and comment on these matters must be in person.)

5. Action Items

6. Non-Action Items

7. Staff Updates

- a. Orange County Update 5 Minutes
- b. Prioritization List Review 10 Minutes
- c. Lakes Management 10 Minutes
- d. Stormwater Management 10 Minutes
- e. Upcoming Events 0 Minutes

- Howell Branch Preserve Litter Clean-up — January 24th 9am @ 1205 Howell Branch Rd.

8. Board Comments

- a. Discussion of Public Comments Received 5 Minutes

9. Upcoming Agenda Items

- a. Upcoming Agenda Items 5 Minutes
- b. Summary of Meeting Action Items 5 Minutes

10. Adjournment



Lake Killarney Board Regular Meeting Minutes

December 3, 2025 at 10:00 AM

City Hall Commission Chambers
401 S. Park Avenue

Present

Carolyn Minear, David L. Dickerson, Ellen Hencken, Brian King, Jeanne Wall, William Voecks

Staff Present

Director of Natural Resources and Sustainability Gloria Eby, Assistant Director of Public Works Don Marcotte; Public Works Engineer Shannon Monahan, Lakes Division Manager Joseph Cordell, Lakes Specialist Daniel Barber, Administrative Assistant Victoria Tabor

Also Present:

Orange County Senior Environmental Specialist Nidia Volpe (Virtual)

1. Call to Order

The meeting was called to order at 10:01am. The decorum statement was read.

2. Approval of Minutes

- a. Minutes of November 5, 2025

Ms. Wall clarified the November 5, 2025, minutes on page 3, item 8, regarding the prioritization list. She stated that the items on the list will include a noted completion date, but the items will not be removed so the board can track progress, especially since some items may undergo annual testing.

Motion made by Mr. Dickerson to approve the minutes as clarified, seconded by Mr. Voecks. Motion carried unanimously with a 6-0 vote.

3. Public Comments (for items not on the agenda)

4. Public Hearings (Public participation and comment on these matters must be in person.)

5. Action Items

6. Non-Action Items

7. Staff Updates

- a. Orange County Update

Ms. Volpe reported that street sweeping began in mid-November and will be conducted weekly. The new routine service will be funded by the Lake Killarney MSTU - Municipal Services Taxing Unit.

The upcoming Orange County Advisory Board meeting is scheduled for December 11, 2025, at 5 pm and will be held at the Winter Park Police Department.

A question was raised whether Orange County provides reimbursement to the City of Winter Park and whether the City of Winter Park issues invoices to Orange County for the maintenance and treatment of Lake Killarney. The response clarified that the City of Winter Park invoices Orange County for work performed.

b. Lakes Management Update

Lake Killarney Data Update - Lake Killarney's elevation and water quality parameters (phosphorus, nitrogen, clarity, and TSI) through July were noted by Mr. Cordell, who stated that all data remain within non-impaired values.

Aquatic Plant Management Treatment Update - Access corridor treatments have been completed to open some areas that were blocked by lily pads, along with water hyacinth treatments in the north lobe.

Maintenance & Efforts - 60 gallons of debris and 25 gallons of trash were removed. During the paddleboard event, volunteers collected 230 lbs.

Prioritization List - Ms. Wall explained that, at the board's request and agreement, the prioritization list would be reviewed during each meeting, spending approximately five minutes on it. Ms. Eby clarified that the agenda is not intended to function as a data storage system, and she indicated that the list should be reviewed on a quarterly basis, as the items are not updated monthly. Ms. Wall reviewed with the staff each item on the prioritization list, and staff provided updates if any.

Motion made by Mr. Voecks to include the prioritization list as part of the agenda packet to be reviewed at every monthly meeting; seconded by Ms. Wall. Motion with a 5 - 1 vote. Mr. King voted no.

Review Upcoming Meeting Dates - Ms. Wall reviewed the 2026 meeting dates and found no holiday conflicts. The prioritization work session was requested to be scheduled before the February meeting at 8 am.

c. Upcoming events

Orange County Lake Killarney Advisory Board Meeting — December 11th 5pm @ Public Safety Building (500 N. Virginia Ave.)

Winter Park Boat Parade - December 13th @ Dinky Dock with a watch party starting at 5pm and parade starting at 6pm.

Mr. Cordell mentioned that the leaf trap on Killarney Drive will be taken out either next week or the week after.

It was noted that there will be a neighborhood Lake Killarney boat parade on December 6th. The flyer has been uploaded to the meeting documents.

Mr. Voecks raised concerns about an address on Lee Rd. and another on Lake Dr. Staff requested more information on the Lee Rd. address for further investigation and explained that the Lake Dr. address was a demolition permit discussed in the previous board meeting. Staff also clarified that permitting is managed by the building department and that citizens can contact staff directly by email or phone with concerns. Ms. Monahan will furnish updates regarding the shoreline permits of Lake Killarney that have been issued.

d. Stormwater Management Update

CIP Update - Ms. Monahan reported that there were no major updates to the displayed CIP.

Killarney Dr. Pipe Replacement Timeline - She mentioned that the dredging contractor for the Killarney Outfall Project has rescheduled to remove the coffer dam, around the same time Mr. Cordell's crew will be removing the old leaf trap. Once that is completed, the project will be finished.

Lakefront Construction Update - There has been no new construction activity as of a couple of weeks ago.

Drainage at Blossom Ln & Turned Rd Update - The drainage problem on Blossom Ln and Turner Rd on the south side of Lee Rd was examined. It was determined that improvements are necessary. After staff completes their investigation and develops a plan, it will be presented to the board as a follow-up item.

Follow-up Items:

It has been clarified that items listed on the prioritization list will no longer be categorized under follow-up items.

Orange County Killarney Dr.

Major Outfall Inspection Schedule

Street Sweeping Map

e. Requested Deliverables

Private Lift Station Document — Signed & Dated by David Zusi as requested.

8. Board Comments

The board agreed, by nods, to email a letter of appreciation to the volunteers who cleaned up Lake Killarney and discussed making the event a regular occurrence.

In response to the inquiry regarding Phase II of the Lake Killarney Drive improvement, Ms. Monahan indicated that once the team has developed a finalized design suitable for permitting, they will be able to establish a more definitive schedule.

The next meeting will include the vote for the new chair, replacing Jason Ellison. Following the annual appointments in April, a new chair and vice-chair will be chosen at the June meeting.

Ms. Minear and Ms. Wall engaged with staff to send a communication informing residents that the algal bloom watch has been lifted and to communicate a reversal of the Department of Health alert. Ms. Eby explained the educational notification previously sent to residents in August advised of the Department of Health's lifting alert, and reminded that issuing public health notifications is not within the purview of Lakes Management; dissemination of state agency alerts and education is provided.

- a. Discussion of Public Comments Received

9. Upcoming Agenda Items

- a. Upcoming Agenda Items
 - Selection of Chair from January through June
 - The board will provide flyer for the upcoming Lake Killarney Boat Parade so the staff can share the information.
 - An email will be sent to Dave Zusi to provide an update on private lift stations for next month's meeting.
 - Ms. Monahan will revise the basin study on the prioritization list to include MLK language.
 - The prioritization list will be included on the agenda and reviewed by the board members on a monthly basis.
 - The prioritization work session will be scheduled before the Feb 4th meeting if the room is available.
 - Mr. Dickerson will prepare a thank-you letter and distribute it to the staff for inclusion in the packet. The board will review the letter and approve sending it to the paddleboard volunteers who cleaned up Lake Killarney.
 - Mr. Voecks will provide two addresses to the public works staff so they can address his community concern.
- b. Summary of Meeting Action Items

10. Adjournment

The meeting adjourned at 11:21 a.m.

Approved by the board on
/s/ Bahiyyah Layton, Board Coordinator



Lake Killarney Board

agenda item 7.a

item type

Staff Updates

meeting date

January 7, 2026

prepared by

Victoria Tabor, Administrative Coordinator III

approved by

Victoria Tabor, Administrative Coordinator III

subject

Orange County Update

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

None



item type

Staff Updates

meeting date

January 7, 2026

prepared by

Victoria Tabor, Administrative Coordinator III

approved by

Victoria Tabor, Administrative Coordinator III

subject

Prioritization List Review

motion | recommendation

background

alternatives | other considerations

fiscal impact

attachments

1. Prioritize list LKB-08-06-2025
2. 2025 GWM Imperial Laundry

Status	Priority	Subject	Board Description	Staff Notes	Date Provided
Complete	High	Boat house and Dock inspections	After a boat house or dock is approved by the board, is there a way the Lake's staff could circle back to the board and inform them that the Permitted dock or boathouse was built and landscaped in accordance with the permit issued? The process of the building department staff doing this inspection leaves the Lake staff to rely on them and no reassurances are given to the board the structure was completed and is in compliance. Example, Ms. Bell on Lake Drive.	Provided stepwise process to permitting to board	8/2/2024
Complete	High	Annexation Updates	Any updates with the annexation of Winter Park, especially as I live on the unincorporated side of the lake. Prep for Annexation. Status and involvement in any city plans to annex the other side of Killarney from Orange County to WFP? Where might our board fit into this discussion? Will there be a thorough review of the aging infrastructure on the Orange County side of the lake?	Jeanne provided letter of request	2/2024
Ongoing	High	Trash & Debris from all major lake inputs	Clean not only trash and debris from all major lake inputs but in the long term remove chemicals and fertilizers from the input. (Better Lake Quality) Quarterly basis for pipe inspections/OC to be involved.	Quarterly basis for pipe inspections/OC to be involved; Mailer sent to OC residents August 2024- CWP to send similar message Oct 2024. Mailer delayed per Hurricanes- will be sent early Dec.	Ongoing
Ongoing	High	New Development Notification	Learn about Developer events/projects earlier so that we may have input/impact into what is dumped into our lake.	Shannon will coordinate with P&Z Board for items related to Killarney	5/1/2024
Ongoing	High	Exfiltration Maintenance	See example/actual agreement regarding requirements for underground retention systems and related cleaning process and timing.	provided example of signed maintenance agreement and letter requiring compliance with maintenance	12/4/2024
Complete	High	Modification to Ch 114 for docks & seawalls in Cove	Explore the feasibility of modifying specs and requirements for docks and sea walls for the smaller "lobes" of Lake Killarney, Canal & Cove specifically.	Overview presentation to the board on 9/4. Board to provide direction thereafter. Staff recommends code remains as is as the board already has authority to regulate. Board agrees with Staff recommendation.	9/4/2024
Complete	High	Managing lake levels/hurricane preparedness		Once study is complete, Guide will be updated	5/7/2025
Ongoing	High	Emergency Response Contact List	Provide annual updated contact list to WFPD & OC	Residents with boats who can assist 1st responders	7/23/2024
Ongoing	High	Assessing Money	The status of the city replacing their grant writer and who specifically is charged with knowing possible sources of money, and is focused on writing the grants and following up on the grants available, as it relates to our aging infrastructure.	City Commission voted to review budget items	
Ongoing	High	Imperial Update	latest update on the testing and results	Shannon provides update upon report received from FDEP	7/2/2024
Complete	High	Nicolette Pond	Nicolette Pond permitting process and design.	Pond is complete	Oct-24
Ongoing	High	Private Lift Station Maintenance Agreement	Status of private lift station inspection and reporting program to monitor the maintenance compliance of private lift stations in Winter Park or WP's jurisdiction.	David Zusi Provided update to the Board. Agreement in effect sent to Board.	11/5/2024
Ongoing	High	Library & Event Center Parking Additions	Would our board be part of these discussions as it relates to changes around this facility and runoff or reconfiguring MLK POND?	Staff will keep the board up to date on proposed changes to MLK pond that could potentially affect Lake Killarney	Ongoing
Ongoing	Low	Alligator Awareness	To know more about out the growing number of gators in the canal/cove. Provided educational flyer and distributed.	Provide educational awareness via mailchimp	5/7/2024
Ongoing	High	CRS	The status of the city joining the Community Rating System (CRS)	City Commission tabled until Jan 2025	6/26/2024
Ongoing	High	Trash receptacles on storm drains	Trash and recycle bins being placed over storm drains with "drains to lakes" placards being on the storm drains and not moving them after collection.	Sustainability will send outreach messaging. Storm drain marking inventory completed. Educational Mailers being provided to community. Mailer delayed per Hurricanes- sent 12/5/2024.	Ongoing
Complete	High	NPDES Permit Overview	Review the NPDES filing including all attachments.	Shannon presented NPDES Overview	2/7/2024
Ongoing	High	Lake Survey Report	When staff conducts a lake survey, is there a report they prepare and could this be provided to the board without much effort? This could include a review of any docks and boat houses that might be in an unsafe condition and track the resolution of the situation with an update to the board?	Staff currently provides a verbal update to inspections including violations reported and outcome for both Lakes & Waterway Board and Killarney Board. Field sheets are not uploaded to any lake Board per resources.	Monthly
Pending	High	Drainage Basin Improvements	RECONFIGURING DRAINAGE – The city staff have discussed possible plans to redo the roadway around where the Imperial Laundry was, near Lake Rose. What drainage changes are contemplated and are there plans to connect Lake Rose to any lake that flows, or overflows, into Lake Killarney? How might the board participate in these discussions and potential changes around Lake Rose, especially as it relates to connecting this lake to Lake Killarney? This same discussion as it relates to MLK POND.	No changes to drainage patterns were made during the construction of the southbound right turn lane at Denning Dr and Fairbanks Ave. Staff will keep the board up to date on proposed changes to Lake Rose that could potentially affect Lake Killarney.	
Pending	High	Drainage Basin Improvements	CONDITION REPORT OF LK STORMWATER SYSTEM – Status of the report on mapping and the condition evaluation of all stormwater outfalls on or around Lake Killarney /cove/ canal. Who's responsible for this project and any update, or is a partial report review possible? I know the city hired an engineering firm and that report is due in about a year; however, I believe Shannon was working on this. Is this still in the works at the staff level?	The basin study report does not include information on the condition of stormwater outfalls.	
Pending	High	Drainage Basin Improvements	NEW ENHANCEMENTS FOR LK – Where might it be good to include a CDS box if stormwater pipes and outfalls are updated, consolidated and fixed? Will the board be part of this discussion? Are there federal or state funds available for these types of expensive corrections and enhancements? I know staff always considers this enhancement; however, maybe the board could assist with encouragement to the commission to access funds for these environmentally beneficial devices.	FDEP grants funds for stormwater retrofit projects such as this. The City has applied for a grant for a CDS unit at the Shoreview Ave outfall on Lake Killarney in the past, and is applying again this year.	
Complete	High	Drainage Basin Improvements	BASIN REPORT PRESENTATION	An overview of the Western Basin Study presented to Board.	11/6/2024
Pending	High	Lake Data Dashboard	Status of on-line dashboard	Beta complete and presented to Lakes & Waterway Board. Launch expected by Fall.	

Status	Priority	Subject	Board Description	Staff Notes	Date Provided
Ongoing	High	Exfiltration Maintenance	See example/actual agreement regarding requirements for underground retention systems and related cleaning process and timing.	Shannon provided example of signed maintenance agreement and letter requiring compliance with maintenance records.	12/4/2024
Ongoing	High	Private Lift Station Maintenance Agreement Program	Status of private lift station inspection and reporting program to monitor the maintenance compliance of private lift stations in Winter Park or WP's jurisdiction.	David Zusi Provided update to the Board. Agreement in effect sent to Board.	11/5/2024
Ongoing	Low	Lk Bell water quality testing	Add Lk Bell to sampling schedule	Lake Bell is already a part of city's monitoring program. Lk Bell Data will be added to the monthly updates.	8/6/2025
Ongoing	High	HAB Education	HAB concerns	Staff provides advisories via lake alerts as they are issued by the public health agencies.	Ongoing
Ongoing	High	Imperial Update	latest update on the testing and results	Shannon provides update upon report received from FDEP	7/2/2024
Pending	High	Drainage Basin Improvements	Killarney Drive Outfall Project	Construction in progress	
Ongoing	High	Basin Study Update	Status on study's recommendations and progress such as FDOT pond expansion	Killarney Drainage Improvements are under construction. MLK flood storage expansion design is underway. Nothing to report on the FDOT pond expansion.	Ongoing
Pending	High	Drainage Basin Improvements	CONDITION REPORT OF LK STORMWATER SYSTEM – Status of the report on mapping and the condition evaluation of all stormwater outfalls on or around Lake Killarney /cove/ canal. Who's responsible for this project and any update, or is a partial report review possible? I know the city hired an engineering firm and that report is due in about a year; however, I believe Shannon was working on this. Is this still in the works at the staff level?	Camera truck received May 2025; Program to begin inspections in high priority areas	Ongoing
Ongoing	High	Drainage Basin Improvements	NEW ENHANCEMENTS FOR LK – Where might it be good to include a CDS box if stormwater pipes and outfalls are updated, consolidated and fixed? Will the board be part of this discussion? Are there federal or state funds available for these types of expensive corrections and enhancements? I know staff always considers this enhancement; however, maybe the board could assist with encouragement to the commission to access funds for these environmentally beneficial devices.	FDEP grants funds for stormwater retrofit projects such as this. The City has applied and received a grant for a CDS unit at the Shoreview Ave outfall on Lake Killarney.	Ongoing
Pending	High	Street Sweeping Compliance	Status of ew contract, schedule, and work verification	Contractor is still in the process of learning the City streets and timing to complete sections of the City. Once completed, a schedule will be developed.	Ongoing
Pending	High	Lake Data Dashboard	Status of on-line dashboard	Beta complete and presented to Lakes & Waterway Board. Launch expected by Fall.	
Ongoing	High	Attend Orange County Lake Advisory Board Meeting	WP Board Members should attend regularly	WP staff hosts and attends OC meeting. WP Board expressed importance for its members (at least one) to regularly attend.	Ongoing
Ongoing	High	Canal Improvements	Board expressed concerns with maintenance, water quality and aesthetics	City performs monthly activities for the canal. City continues revegetation efforts and the treatment of Brazilian pepper.	Ongoing
Pending	High	Lake Killarney Board Members Participation	Better participation from board members in community projects and communication		

City Staff Recommendations to Board:

Pending	High	Welcome to your Lake Program	Provide welcoming educational packet for lakeside living for all new residents.	Lakes is developing packet for distribution and communicated for effectiveness, lake members provides awareness to new residents on the lake.	
Pending	High	Host Community Meetings	Provide Community meetings for education & awareness	Host annual Dock Party at a minimum to engage the community. Goal is to provide continuous education and a venue to gain contact information for all lakeside residents.	
Pending	High	Septic to Sewer	Reduce nutrient sources with septic to sewer conversion	Seek grants and coordinate with OC for conversion funds to include community educational program	



Florida Department of Environmental Protection

2025 GROUNDWATER MONITORING REPORT

**Imperial Laundry and Dry Cleaners
Winter Park, Orange County, Florida
FDEP Facility ID# ERIC_5039**

August 8, 2025

2025 GROUNDWATER MONITORING REPORT

Imperial Laundry and Dry Cleaners
Winter Park, Orange County, Florida
FDEP Facility ID# ERIC_5039

August 8, 2025

Prepared By:

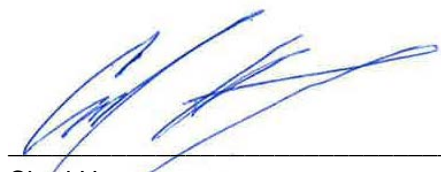
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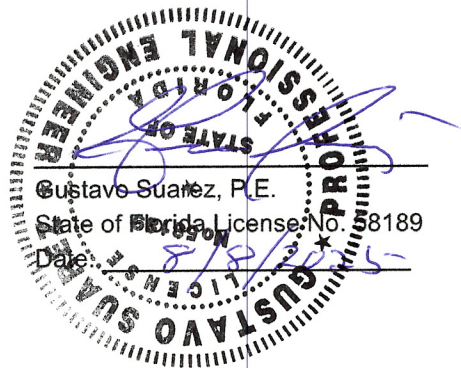
Gustavo Suarez, P.E.
Project Manager

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CERTIFICATION

In accordance with the provisions of Florida Statute Chapters 492, and Chapter 62-780, Florida Administrative Code, this 2025 Groundwater Monitoring Report for the Imperial Laundry, and Dry Cleaners Site, located at 901 West Fairbanks Avenue in Winter Park, Orange County, Florida, has been reviewed, signed, and sealed by a registered Professional Engineer licensed in the State of Florida familiar with current State Drycleaning solvent clean-up criteria. I hereby certify that the work was performed in accordance with the Health & Safety Plan, Florida Department of Environmental Protection Standard Operating Procedures, task assignment DC041B, and under my direct supervision.

Arcadis U.S., Inc.
4300 West Cypress St.
Suite 450
Tampa, FL 33607



Contents

1	INTRODUCTION	1
2	SITE BACKGROUND	1
3	2025 ANNUAL GROUNDWATER NAM EVENT	4
3.1	Monitor Well Abandonment Activities	4
3.2	Monitor Well Installation and Redevelopment.....	4
3.3	Field Methodology	4
3.4	Groundwater Sampling Results	5
3.4.1	Groundwater Gradient Study Results	5
3.4.2	Groundwater Analytical Results	5
3.5	Investigation Derived Waste.....	5
4	QUALITY ASSURANCE & QUALITY CONTROL.....	5
5	CONCLUSIONS	6
6	RECOMMENDATIONS	6
7	REFERENCES	6

Tables

- Table 1** Groundwater Elevations and Monitor Well Construction Details
- Table 2** Monitor Well Groundwater Analytical Results

Figures

- Figure 1** Site Layout Map
- Figure 2** Shallow Groundwater Gradient – July 7, 2025
- Figure 3** PCE Concentrations in Groundwater
- Figure 4** Groundwater PFAS Analytical Results

Appendices

- Appendix A.** Well Completion Reports
- Appendix B.** Field Logs
- Appendix C.** Laboratory Analytical Reports

1 INTRODUCTION

Arcadis U.S., Inc. (Arcadis) is pleased to submit to the Florida Department of Environmental Protection (FDEP) this Groundwater Monitoring Report for the former Imperial Laundry and Drycleaners (Site), located at 901 West Fairbanks Avenue in Winter Park, Orange County, Florida (**Figure 1**). This Report summarizes the 2025 groundwater sampling event conducted in July 2025 in accordance with FDEP Task Assignment (TA) DC041B.

2 SITE BACKGROUND

The geographic location of the Site is Section 1, Township 22 South and Range 29 East and the approximate latitudinal and longitudinal coordinates of the Site are 28° 35' 36"N and 81° 21' 40"W. The Site is located in an area comprised of a mixture of commercial and residential properties. A coffee shop and an asphalt paved parking lot adjoin the facility to the west. Denning Drive and a vacant parking lot are located east of the facility. Fairbanks Avenue and several commercial properties are located to the south. Lake Rose, a former sinkhole, is located north of the Site.

Operation of the facility began in 1965 and consisted of conventional laundry activities until 1977, when drycleaning activities were initiated. From 1977 until 1980, tetrachloroethene (PCE) was used as the drycleaning solvent. A petroleum based drycleaning solvent (Exxon DF-2000) was used at the Site from 1980 until the sale of the property to The City of Winter Park in 2021.

Detailed information concerning the Site history, surrounding area, and previous investigations are included in the Site Assessment Report (SAR) (Arcadis, 2007). The approved Remedial Action Plan (RAP) (Arcadis, 2008) recommended operation of a SVE system until volatile organic compound (VOC) concentrations in the soil are reduced to below Soil Cleanup Target Levels (SCTLs) as specified in Chapter 62-777 Florida Administrative Code (F.A.C). The RAP also recommended implementation of a NAM program, until target VOC concentrations in the source area are reduced to levels below Groundwater Cleanup Target Levels (GCTLs) specified in Chapter 62-777, F.A.C. Following the RAP approval, NAM has been completed on a routine basis to assess the groundwater quality over time.

In August and September 2009, Arcadis completed the initial SVE system construction activities which included the installation of seven SVE wells (SVE001 through SVE007), five vapor monitor points (MP001 through MP005), one air inlet well (AI001), associated system piping, the equipment compound, and power pole. In November 2009, Arcadis submitted a Remedial Action Status Report (RASR) (Arcadis, 2009) with associated as-built drawings.

The SVE System trailer previously located at the Former Saufley Square Laundry & Dry Cleaners Center in Pensacola, Florida (FDEP Facility ID# 17-9800747) was decommissioned and relocated for use at the Site in August 2013. Following startup testing in September 2013, the SVE system commenced continuous operation on October 10, 2013. Detailed information regarding the system construction and startup are included in the SVE System Startup Report (Arcadis, 2014).

Following the completion of the October 2014 O&M visit, the SVE system was shut down on October 31, 2014 to allow for subsurface equilibration prior to temporarily resuming operation on December 2, 2014 for the collection of individual SVE well (SVE001 through SVE007) vapor and combined effluent samples as part of a bump test. The SVE system was shut down following the bump test performed on December 2, 2014.

2025 GROUNDWATER MONITORING REPORT

Arcadis submitted the Year 1 Quarters 3 and 4, RASR (Arcadis, 2015a), which documented operation and maintenance (O&M) of the SVE system from April 17, 2014, to December 2, 2014, and results of the bump test, on January 29, 2015. The report recommended continuation of SVE operation for an additional two quarters and an annual NAM groundwater sampling event. The FDEP replied via electronic mail on March 27, 2015, recommending that the SVE system remain off, but bumped during the NAM Site visit and a single combined vapor influent sample be collected.

The 2015 Annual NAM and SVE Bump Test Report (Arcadis, 2015b) which documented groundwater gradient and analytical results on May 4, 2015, as well as SVE system operation and maintenance activities, was submitted to the FDEP on July 17, 2015. The report recommended quarterly NAM groundwater sampling events and SVE bump testing during each Site visit. The FDEP reviewed and approved the report via electronic mail on August 6, 2015, under the conditions that NAM continue on an Annual basis and an additional bump test be performed in conjunction with confirmatory soil sampling activities.

On November 18, 2015, Arcadis collected 9 confirmatory soil samples from locations and intervals that previously reported PCE concentrations above the FDEP leachability SCTL during assessment activities completed in 2006. All of the confirmatory samples collected reported PCE concentrations below the leachability SCTL. Results of the soil sampling activities and bump test were reported to the FDEP via electronic mail on December 15, 2015. The FDEP replied via electronic mail on January 12, 2016, recommending that the Site proceed from active remediation to annual monitoring only.

Arcadis submitted the 2016 Annual NAM Report (Arcadis, 2016) to the FDEP on July 29, 2016. This report documented groundwater gradient and analytical results from the May 2016 groundwater monitoring event in addition to SVE system maintenance activities conducted during the reporting period. The analytical results of the May 2016 event indicated an overall decreasing trend in PCE concentrations at the Site. Arcadis recommended continuation of the annual NAM groundwater sampling program of five monitoring wells (MW001, MW002, MW004, MW009 and MW012). The FDEP replied via electronic mail on August 8, 2016, approving the NAM report and recommendations therein. A Decommissioning Report (Arcadis, 2017a) was submitted on July 14, 2017 documenting the SVE system decommissioning activities conducted from May 23 through 25, 2017 in accordance with the FDEP TA DC009I.

The 2017 Annual NAM Report (Arcadis, 2017b), documenting the groundwater gradient and analytical results from samples collected in May 2017, was submitted to the FDEP on August 10, 2017. The May 2017 results indicated PCE concentrations below the FDEP GCTL for all of the wells sampled. However, MW001 was not sampled due to insufficient water column. As a result, Arcadis recommended commencement of quarterly sampling until two consecutive quarters of groundwater results less than the FDEP GCTLs are achieved. The FDEP reviewed the report and concurred with the recommendation to sample MW001 and MW002 via electronic mail on August 15, 2017.

Results of the first quarterly sampling event conducted on August 24, 2017 were reported in the 2017 Quarter 1 NAM Report (Arcadis, 2017c) submitted on September 19, 2017. PCE was detected above the FDEP GCTL in the sample collected from MW001 and below the FDEP GCTL from the sample collected from MW002. As a result, quarterly sampling of MW001 was recommended until two consecutive quarters of results below cleanup criteria were achieved. The FDEP reviewed and approved the report via electronic mail on October 2, 2017, under the condition that the monitoring return to an annual frequency.

The 2018 Annual NAM Event was completed in November 2018 and reported in the 2018 Annual NAM Report (Arcadis, 2019a) submitted on January 11, 2019. Results indicated concentrations of constituents of concern

2025 GROUNDWATER MONITORING REPORT

(COCs) below GCTLs for samples collected from MW001, MW002, and MW009. Quarterly sampling of MW001 and MW002 was recommended to obtain two consecutive quarters of results below GCTLs for Site closure. The FDEP reviewed and approved the report via electronic mail on January 16, 2019.

The first quarter 2019 NAM Event was completed in February 2019 and reported in the 2019 Quarter 1 NAM Report (Arcadis, 2019b) submitted on April 11, 2019. Results indicated concentrations of COCs exceeded GCTLs for both samples collected from MW001 and MW002. Based on the results of the February 2019 groundwater sampling event, it was recommended to return to an annual monitoring frequency. The 2019 Annual NAM Event was completed in November 2019 and reported in the 2019 Annual NAM Report (Arcadis, 2020) submitted on February 7, 2020. Results indicated concentrations of COCs below GCTLs for samples collected from MW001 and MW002. Arcadis recommended sampling in February 2020, however, the FDEP elected to continue with annual monitoring in electronic mail correspondence dated February 25, 2020.

The 2020 Annual NAM event was completed in December 2020 and reported in the 2020 Annual NAM Report (Arcadis, 2021) submitted on February 12, 2021. PCE was detected above the FDEP GCTL in the sample collected from MW001 and below the FDEP GCTL from the sample collected from MW002. Additionally, all other COCs associated with the Site were reported below the respective laboratory method detection limits and FDEP GCTLs during the event. Based on the results, Arcadis recommended collecting NAM groundwater samples from monitor wells MW001 and MW002 in December 2021. The FDEP reviewed the report and concurred with Arcadis' recommendations in electronic mail correspondence dated February 18, 2021. However, the FDEP requested that MW009 be added to the sampling schedule to comply with the NAM criteria set forth in Chapter 62-780.690, F.A.C.

The 2021 Annual NAM event was completed in December 2021 and reported in the 2021 Annual NAM Report (Arcadis, 2022) submitted on March 7, 2022. Bromodichloromethane and dibromochloromethane were detected above their respective GCTLs for monitoring wells MW001 and MW002. PCE was also detected above the GCTL in the sample collected from MW001 and below the GCTL from the sample collected from MW002. No COCs were detected above the regulatory limits from the sample collected from MW009. All other COCs associated with the Site were reported below the respective laboratory method detection limits and FDEP GCTLs during the event. Based on the results, Arcadis recommended continuing collecting NAM groundwater samples in December 2022. The FDEP reviewed and approved the 2021 NAM report in email correspondence dated March 15, 2022.

The 2022 Annual NAM event was completed in December 2022 and reported in the 2022 Annual NAM Report (Arcadis, 2023) submitted on February 9, 2023. PCE was detected above the GCTL in the samples collected from MW001 and MW002. No COCs were detected above the regulatory limits from the sample collected from MW009. All other COCs associated with the Site were reported below the respective laboratory method detection limits and FDEP GCTLs during the event. Based on the results, the FDEP requested to perform quarterly groundwater sampling at monitoring wells MW001 and MW002 in an effort to achieve site closure requirements. The FDEP reviewed and approved the 2022 NAM report in email correspondence dated February 24, 2023.

The 2023 Annual NAM event was completed in October 2023 and reported in the 2023 Annual NAM Report (Arcadis, 2024) submitted on April 5, 2024. PCE was detected above the GCTL in the samples collected from MW001 and MW002. All other COCs associated with the Site were reported below the respective laboratory method detection limits and FDEP GCTLs during the event. The FDEP reviewed and approved the 2023 NAM report in email correspondence dated April 22, 2024.

The City of Winter Park constructed a turn on the eastern portion of the former dry cleaning parcel in 2024. The Site was used to stage equipment and materials for construction activities. All of the monitor wells except MW005,

were damaged and covered by restoration activities following construction of the turn lane. A professional surveyor staked the well locations and Arcadis personnel uncovered the wells on January 8, 2025. Monitor wells MW004, MW005, and MW008 were determined to be the only viable wells.

3 2025 ANNUAL GROUNDWATER NAM EVENT

3.1 Monitor Well Abandonment Activities

Based on observed damage to existing monitor wells from construction activities, monitoring wells MW007 and MW013 were destroyed and monitor wells MW001, MW002, MW003, MW009, and MW012 were abandoned by licensed driller Preferred Drilling Solutions Inc. (PDS) on June 30, 2025. The five wells were abandoned by lowering polyvinyl chloride (PVC) tremie pipe to the bottom of the well. Portland neat cement grout was then poured through the tremie pipe into the well and raised until reaching the top-of-casing. Abandonment was determined to be complete when grout was observed to return from the well to the top of the well casing. State of Florida Well Abandonment Completion Reports are included in **Appendix A**.

3.2 Monitor Well Installation and Redevelopment

On June 30, 2025, monitor wells MW001R and MW002R were installed to replace damaged and abandoned monitoring wells MW001 and MW002 (**Figure 1**). Both shallow monitor wells were installed to approximately 18 ft below land surface (bls) and constructed with 10 ft of 1-inch diameter Schedule 40 PVC well screen attached to an appropriate length of 1-inch diameter Schedule 40 PVC riser.

The monitor wells were completed with a locking cap, flush-to-grade bolt down manhole covers, and a 2-foot by 2-foot concrete pad. The monitor wells were developed until a consistently non-turbid, relatively clear, and sediment-free discharge was obtained. Damaged but intact monitor wells MW004 and MW008 were redeveloped to clear out sediment intrusion from construction activities. Monitor wells MW004 and MW008 were redeveloped and pumped until a consistently non-turbid, relatively clear, and sediment-free discharge was obtained. Well construction details are included in **Table 1**. Well Completion Reports are included in **Appendix A** and copies of the well construction and redevelopment logs are included in **Appendix B**.

3.3 Field Methodology

On July 7, 2025, Arcadis surveyed the repaired and replaced monitor wells relative to the undisturbed top of casing elevation of MW005 and measured the water levels within the monitor well network (**Table 1**). Following the collection of water-level measurements, Arcadis sampled five monitor wells (MW001R, MW002R, MW004, MW005, and MW008) using low-flow purging methods in accordance with FDEP Standard Operating Procedures for Field Activities (SOP-001/01). The groundwater samples from MW001R and MW002R were sent to Eurofins Laboratory (Eurofins) in Altamonte Springs, Florida, for analysis of VOCs per United States Environmental Protection Agency (USEPA) Method 8260D. The groundwater samples from MW001R, MW002R, MW004, MW005, and MW008 were sent to the FDEP Laboratory in Tallahassee, Florida, for analysis of PFAS constituents per DEP SOP LC-001-3. Appropriate chain-of-custody documentation accompanied the samples. Copies of the groundwater sampling logs are included in **Appendix B**.

3.4 Groundwater Sampling Results

3.4.1 Groundwater Gradient Study Results

Well construction details and a summary of water-level elevations are presented in **Table 1**. The groundwater flow in the shallow zone of the surficial aquifer during the July 2025 event was to the north northwest (**Figure 2**) towards Lake Rose, which is consistent with previous gradient studies. MW008 is the only remaining monitor well within the intermediate aquifer zone, and a groundwater elevation map was not created for this zone.

3.4.2 Groundwater Analytical Results

Concentrations of the VOH COCs in the groundwater samples collected from the surficial aquifer zone are summarized in **Table 2** with PCE concentrations presented on **Figure 3**. Groundwater analytical results were compared to the FDEP GCTLs provided in Chapter 62-777, F.A.C. Replacement monitor well MW002R reported a PCE concentration of 7.0 micrograms per liter ($\mu\text{g/L}$), which is above the FDEP GCTL ($3 \mu\text{g/L}$). Replacement monitor well MW001R did not exceed the FDEP GCTL. Remaining Site VOH COCs were reported below the respective laboratory method detection limits and FDEP GCTLs for the two replacement wells sampled.

Groundwater analytical results for PFAS compounds were screened against FDEP's Provisional Groundwater Cleanup Target Levels (PGCTLs) and are presented on **Figure 4**. Monitoring wells MW002R, MW004, MW005, and MW008 exceeded the PFAS PGCTLs. Copies of the laboratory analytical reports are included in **Appendix C**.

3.5 Investigation Derived Waste

Purge water generated from the monitoring event was containerized on-Site in a 55-gallon metal drum and stored on-Site pending profiling, transportation, and disposal. The same drum will be used for future monitoring events until the drum reaches capacity.

4 QUALITY ASSURANCE & QUALITY CONTROL

This section summarizes the quality assurance/quality control (QA/QC) procedures followed during the reporting period. Groundwater samples were collected in general accordance with FDEP SOP 001/01. The analytical data provided by the laboratory was reviewed for laboratory precision, accuracy, and completeness.

The laboratory data was deemed acceptable based on the following information:

- All samples were prepared and analyzed within specified hold times.
- QC criteria were met, and the test results shown in the report meet all applicable NELAC requirements.
- The laboratory method blank was free of target analytes.
- The laboratory control sample results were within QA/QC criteria.
- The laboratory matrix spike and/or matrix spike duplicate recoveries were reported within defined control limits with the exception of the matrix spike recovery for batch 670-162585. Sample matrix interference and/or

non-homogeneity was suspected because the associated laboratory control sample recovery was within acceptance limits.

- Surrogate recovery results were within the required surrogate ranges.
- The continuing calibration verification(s) were within acceptance criteria with the exception of batch 670-162585 where non Site COCs (chloromethane, and dichlorodifluoromethane) were recovered outside acceptance criteria. Since the associated samples were non-detect for the analytes, the data were reported.
- The equipment blank collected as part of the PFAS sampling process displayed no detections.

Based on these results, the samples collected during the reporting period at the Site are an accurate representation of groundwater quality conditions (**Appendix C**).

5 CONCLUSIONS

The following conclusions can be made based on the results of the July 2025 Groundwater Monitoring event.

- Based on observed damage to existing monitor wells from construction activities, monitoring wells MW007 and MW013 were destroyed and monitor wells MW001, MW002, MW003, MW009, and MW012 were abandoned.
- Monitor wells MW001R and MW002R were installed to replace damaged and abandoned monitoring wells MW001 and MW002.
- Damaged but intact monitor wells MW004 and MW008 were redeveloped to clear out sediment intrusion from construction activities.
- Consistent with historical gradient studies, the groundwater gradient was generally to the north-northwest within the shallow aquifer zone. MW008 is the only remaining monitor well within the intermediate aquifer zone, and a groundwater elevation map was not created for this zone.
- PCE was detected above the FDEP GCTL in the sample collected from replacement monitor well MW002R. Replacement monitor well MW001R did not exceed the FDEP GCTL for PCE during the July 2025 event.
- Remaining Site VOH COCs were reported below the laboratory method detection limits and/or FDEP GCTLs.
- Monitoring wells MW002R, MW004, MW005, and MW008 exceeded the PFAS PGCTLs.

6 RECOMMENDATIONS

Based on the results of the July 2025 groundwater sampling event, Arcadis recommends collecting groundwater samples from monitor wells MW001R and MW002R on a quarterly basis until two consecutive samples are obtained with concentrations below groundwater cleanup criteria.

7 REFERENCES

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2025 GROUNDWATER MONITORING REPORT

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- Arcadis U.S., Inc. (2017c). 2017 Quarter 1 NAM Report. Imperial Laundry and Dry Cleaners Winter Park, Florida, September 2017.
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- Florida Department of Environmental Protection, Chapter 62-777, Florida Administrative Code, Contaminant Cleanup Target Levels, Effective April 17, 2005.
- Florida Department of Environmental Protection, Chapter 62-780, Florida Administrative Code, Contaminated Site Cleanup Criteria, Effective February 2, 2017.

Tables

TABLE 1
GROUNDWATER ELEVATIONS AND MONITOR WELL CONSTRUCTION DETAILS
Imperial Laundry and Dry Cleaners
Winter Park, Florida
FDEP Facility ID No. ERIC_5039



Monitor Well Designation	Date	Diameter (inches)	Depth of Well (ft)	Screen Interval (ft)	Top of Casing Elevation (ft)	Depth to Water (ft)	Water Elevation (ft-NVGD)
MW001	5/17/2006	1	12	2-12	95.04	12.18	82.86
	8/24/2006					11.45	83.59
	9/10/2007					11.93	83.11
	9/23/2008					8.85	86.19
	10/29/2009					10.42	84.62
	4/28/2010					10.28	84.76
	6/10/2011					11.91	83.13
	5/22/2012					12.48	82.56
	5/28/2013					11.12	83.92
	5/19/2014					11.20	83.84
	5/4/2015					10.90	84.14
	5/3/2016					11.19	83.85
	5/2/2017					12.43	82.61
	11/6/2018					9.39	85.65
	2/5/2019					10.06	84.98
	11/6/2019					8.90	86.14
	12/16/2020					9.50	85.54
12/30/2021	9.60	85.44					
12/1/2022	7.24	87.80					
10/18/2023	9.32	85.72					
MW001R	7/7/2025	1	18	8 - 18	94.82	9.25	85.57
MW002	5/17/2006	1	18	8-18	94.64	11.49	83.15
	8/24/2006					10.74	83.90
	9/10/2007					11.19	83.45
	9/23/2008					8.16	86.48
	10/29/2009					9.78	84.86
	4/28/2010					9.53	85.11
	6/10/2011					11.30	83.34
	5/22/2012					12.17	82.47
	5/28/2013					10.53	84.11
	5/19/2014					10.55	84.09
	5/4/2015					10.18	84.46
	5/3/2016					10.46	84.18
	5/2/2017					11.86	82.78
	11/6/2018					8.76	85.88
	2/5/2019					9.36	85.28
	11/6/2019					8.25	86.39
	12/16/2020					8.82	85.82
12/30/2021	8.94	85.70					
12/1/2022	6.53	88.11					
10/18/2023	8.42	86.22					
MW002R	7/7/2025	1	18	8 - 18	94.83	9.29	85.54
MW003	5/17/2006	1	33	28-33	94.63	11.60	83.03
	8/24/2006					10.85	83.78
	9/10/2007					11.31	83.32
	9/23/2008					8.90	85.73
	10/29/2009					9.83	84.80
	4/28/2010					9.63	85.00
	6/10/2011					11.39	83.24
	5/22/2012					12.24	82.39
	5/28/2013					10.46	84.17
	5/19/2014					10.65	83.98
	5/4/2015					10.28	84.35
	5/3/2016					10.55	84.08
	5/2/2017					11.95	82.68
	11/6/2018					8.83	85.80
	2/5/2019					9.48	85.15
	11/6/2019					8.32	86.31
	12/16/2020					8.87	85.76
12/30/2021	9.03	85.60					
12/1/2022	6.66	87.97					
10/18/2023	8.50	86.13					
7/7/2025	NM	--					

Footnotes on Page 5

TABLE 1
GROUNDWATER ELEVATIONS AND MONITOR WELL CONSTRUCTION DETAILS
Imperial Laundry and Dry Cleaners
Winter Park, Florida
FDEP Facility ID No. ERIC_5039



Monitor Well Designation	Date	Diameter (inches)	Depth of Well (ft)	Screen Interval (ft)	Top of Casing Elevation (ft)	Depth to Water (ft)	Water Elevation (ft-NVGD)
MW004	5/17/2006	1	18	8-18	94.50	11.51	82.99
	8/24/2006					10.78	83.72
	9/10/2007					11.21	83.29
	9/23/2008					8.20	86.30
	10/29/2009					9.58	84.92
	4/28/2010					9.60	84.90
	6/10/2011					11.28	83.22
	5/22/2012					12.21	82.29
	5/28/2013					10.60	83.90
	5/19/2014					10.55	83.95
	5/4/2015					10.03	84.47
	5/3/2016					10.50	84.00
	5/2/2017					11.88	82.62
	11/6/2018					8.82	85.68
	2/5/2019					9.44	85.06
	11/6/2019					8.30	86.20
	12/16/2020					8.84	85.66
	12/30/2021				8.93	85.57	
12/1/2022	6.53	87.97					
10/18/2023	NM	--					
7/7/2025	94.55	9.05	85.50				
MW005	5/17/2006	1	18	8-18	94.16	11.45	82.71
	8/24/2006					10.62	83.54
	9/10/2007					11.08	83.08
	9/23/2008					7.93	86.23
	10/29/2009					9.92	84.24
	4/28/2010					9.41	84.75
	6/10/2011					11.11	83.05
	5/22/2012					12.13	82.03
	5/28/2013					10.45	83.71
	5/19/2014					10.43	83.73
	5/4/2015					10.23	83.93
	5/3/2016					10.29	83.87
	5/2/2017					11.70	82.46
	11/6/2018					8.63	85.53
	2/5/2019					9.31	84.85
	11/6/2019					8.13	86.03
	12/16/2020					8.61	85.55
	12/30/2021					8.70	85.46
12/1/2022	6.22	87.94					
10/18/2023	8.11	86.05					
7/7/2025	8.83	85.33					
MW006	5/17/2006	1	18	8-18	93.94	11.33	82.61
	8/24/2006					10.59	83.35
	9/10/2007					11.12	82.82
	9/23/2008					7.86	86.08
	10/29/2009					9.48	84.46
	4/28/2010					9.30	84.64
	6/10/2011					11.13	82.81
	5/22/2012					12.03	81.91
	5/28/2013					10.34	83.60
	5/19/2014					10.39	83.55
	5/4/2015					9.95	83.99
	5/3/2016					10.29	83.65
	5/2/2017					11.70	82.24
	11/6/2018					NM	--
	2/5/2019					NM	--
	11/6/2019					NM	--
	12/16/2020					NM	--
	12/30/2021					NM	--
12/1/2022	NM	--					
10/18/2023	NM	--					
7/7/2025	NM	--					

Footnotes on Page 5

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 Imperial Laundry and Dry Cleaners
 Winter Park, Florida
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Monitor Well Designation	Date	Diameter (inches)	Depth of Well (ft)	Screen Interval (ft)	Top of Casing Elevation (ft)	Depth to Water (ft)	Water Elevation (ft-NVGD)
MW007	5/17/2006	1	48	43-48	94.37	11.79	82.58
	8/24/2006					11.05	83.32
	9/10/2007					11.44	82.93
	9/23/2008					8.31	86.06
	10/29/2009					10.03	84.34
	4/28/2010					9.85	84.52
	6/10/2011					11.53	82.84
	5/22/2012					12.46	81.91
	5/28/2013					10.72	83.65
	5/19/2014					10.87	83.50
	5/4/2015					10.38	83.99
	5/3/2016					10.66	83.71
	5/2/2017					12.13	82.24
	11/6/2018					8.88	85.49
	2/5/2019					9.53	84.84
	11/6/2019					8.42	85.95
	12/16/2020					8.92	85.45
	12/30/2021					9.03	85.34
12/1/2022	6.60	87.77					
10/18/2023	8.37	86.00					
7/7/2025	NM	--					
MW008	5/17/2006	1	33	28-33	94.32	11.82	82.50
	8/24/2006					11.02	83.30
	9/10/2007					11.50	82.82
	9/23/2008					8.26	86.06
	10/29/2009					9.90	84.42
	4/28/2010					9.72	84.60
	6/10/2011					11.51	82.81
	5/22/2012					12.44	81.88
	5/28/2013					10.84	83.48
	5/19/2014					10.82	83.50
	5/4/2015					10.40	83.92
	5/3/2016					10.68	83.64
	5/2/2017					12.07	82.25
	11/6/2018					8.91	85.41
	2/5/2019					9.59	84.73
	11/6/2019					8.38	85.94
	12/16/2020					8.90	85.42
	12/30/2021					9.00	85.32
12/1/2022	6.46	87.86					
10/18/2023	8.45	85.87					
7/7/2025	94.05	8.77	85.28				
MW009	5/17/2006	1	18	8-18	94.26	11.89	82.37
	8/24/2006					11.02	83.24
	9/10/2007					11.20	83.06
	9/23/2008					8.27	85.99
	10/29/2009					10.01	84.25
	4/28/2010					9.83	84.43
	6/10/2011					NM*	NM*
	5/22/2012					12.53	81.73
	5/28/2013					10.85	83.41
	5/19/2014					10.89	83.37
	5/4/2015					10.49	83.77
	5/3/2016					10.74	83.52
	5/2/2017					12.18	82.08
	11/6/2018					8.88	85.38
	2/5/2019					9.69	84.57
	11/6/2019					8.52	85.74
	12/16/2020					8.64	85.62
	12/30/2021					9.10	85.16
12/1/2022	6.58	87.68					
10/18/2023	8.47	85.79					
7/7/2025	NM	--					

Footnotes on Page 5

TABLE 1
GROUNDWATER ELEVATIONS AND MONITOR WELL CONSTRUCTION DETAILS
Imperial Laundry and Dry Cleaners
Winter Park, Florida
FDEP Facility ID No. ERIC_5039



Monitor Well Designation	Date	Diameter (inches)	Depth of Well (ft)	Screen Interval (ft)	Top of Casing Elevation (ft)	Depth to Water (ft)	Water Elevation (ft-NVGD)
MW010	5/17/2006	1	33	28-33	94.47	11.97	82.50
	8/24/2006					11.20	83.27
	9/10/2007					11.70	82.77
	9/23/2008					9.31	85.16
	10/29/2009					10.10	84.37
	4/28/2010					9.99	84.48
	6/10/2011					11.71	82.76
	5/22/2012					12.60	81.87
	5/28/2013					10.95	83.52
	5/19/2014					11.00	83.47
	5/4/2015					10.58	83.89
	5/3/2016					10.87	83.60
	5/2/2017					12.25	82.22
	11/6/2018					9.05	85.42
	2/5/2019					9.69	84.78
	11/6/2019					8.55	85.92
	12/16/2020					9.07	85.40
	12/30/2021					9.21	85.26
	12/1/2022					6.71	87.76
10/18/2023	NM	--					
7/7/2025	NM	--					
MW011	5/17/2006	1	18	8-18	94.31	11.40	82.91
	8/24/2006					10.68	83.63
	9/10/2007					11.22	83.09
	9/23/2008					8.05	86.26
	10/29/2009					9.58	84.73
	4/28/2010					9.50	84.81
	6/10/2011					11.23	83.08
	5/22/2012					12.02	82.29
	5/28/2013					10.37	83.94
	5/19/2014					10.49	83.82
	5/4/2015					10.08	84.23
	5/3/2016					10.38	83.93
	5/2/2017					11.73	82.58
	11/6/2018					8.56	85.75
	2/5/2019					9.13	85.18
	11/6/2019					8.05	86.26
	12/16/2020					8.63	85.68
	12/30/2021					8.84	85.47
	12/1/2022					6.35	87.96
10/18/2023	8.25	86.06					
7/7/2025	NM	--					
MW012	5/17/2006	1	18	8-18	95.08	11.89	83.19
	8/24/2006					11.23	83.85
	9/10/2007					11.71	83.37
	9/23/2008					8.76	86.32
	10/29/2009					10.18	84.90
	4/28/2010					10.02	85.06
	6/10/2011					11.78	83.30
	5/22/2012					12.59	82.49
	5/28/2013					10.95	84.13
	5/19/2014					10.99	84.09
	5/4/2015					10.70	84.38
	5/3/2016					10.94	84.14
	5/2/2017					12.34	82.74
	11/6/2018					9.21	85.87
	2/5/2019					9.80	85.28
	11/6/2019					8.72	86.36
	12/16/2020					9.33	85.75
	12/30/2021					9.50	85.58
	12/1/2022					7.18	87.90
10/18/2023	NM	--					
7/7/2025	NM	--					

Footnotes on Page 5

TABLE 1
GROUNDWATER ELEVATIONS AND MONITOR WELL CONSTRUCTION DETAILS
Imperial Laundry and Dry Cleaners
Winter Park, Florida
FDEP Facility ID No. ERIC_5039



Monitor Well Designation	Date	Diameter (inches)	Depth of Well (ft)	Screen Interval (ft)	Top of Casing Elevation (ft)	Depth to Water (ft)	Water Elevation (ft-NVGD)
MW013	12/18/2006	2	18	8-18	93.87	10.42	83.45
	9/10/2007					11.15	82.72
	9/23/2008					7.85	86.02
	10/29/2009					9.27	84.60
	4/28/2010					9.32	84.55
	6/10/2011					11.16	82.71
	5/22/2012					11.93	81.94
	5/28/2013					10.28	83.59
	5/19/2014					10.32	83.55
	5/4/2015					9.98	83.89
	5/3/2016					10.26	83.61
	5/2/2017					11.63	82.24
	11/6/2018					NM	--
	2/5/2019					NM	--
	11/6/2019					NM	--
	12/16/2020					NM	--
	12/30/2021					NM	--
	12/1/2022					NM	--
10/18/2023	NM	--					
7/7/2025	NM	--					

Footnotes:

* - water-level indicator stops at 10.60 feet (dry), root material on probe.
ft-NGVD - feet above National Geodetic Vertical Datum of 1929

NM - not measured
ft - feet

TABLE 2
 MONITOR WELL GROUNDWATER ANALYTICAL RESULTS
 Imperial Laundry and Dry Cleaners
 Winter Park, Florida
 FDEP Facility ID ERIC_5039



Sample			Analyte (ug/L)						
Field ID	Depth (ft bls)	Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC	Bromodichloro-methane	Dibromochloro-methane
FDEP GCTL			3	3	70	100	1	0.6	0.4
MW001	2-12	3/27/2006	34.8	<3.0*	<5.0*	<5.0*	<1.0*	<5.0*	<5.0*
		9/10/2007	12.5	<1.00	<1.00	<1.00	<1.00	2.21	0.813 I
		9/23/2008	14.3	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
		10/29/2009	39.2	<2.00	<2.00	<2.00	<1.00	<1.00	<2.00
		4/28/2010	9.70	<2.00	<2.00	<2.00	<1.00	<1.00	<2.00
		6/10/2011	8.02	<1.00	<1.00	<1.00	<1.00	0.418 I	<1.00
		5/28/2013	19.2	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
		5/19/2014	3.11	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
		5/4/2015	5.76	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
		5/3/2016	6.21	<0.190	<0.210	<0.210	<0.190	<0.250	<0.150
		8/24/2017	4.32	<0.190	<0.210	<0.210	<0.190	<0.250	<0.150
		11/6/2018	2.48	<0.190	<0.210	<0.210	<0.190	<0.250	<0.150
		2/5/2019	4.75	<0.190	<0.210	<0.210	<0.190	<0.250	<0.150
		11/6/2019	3.12	<0.190	<0.210	<0.210	<0.190	<0.250	<0.150
		12/16/2020	10.0	<0.610	<0.320	<0.390	<0.260	<0.230	<0.310
		12/30/2021	8.9	<0.610	<0.320	<0.390	<0.260	5.2	0.88 I
		12/1/2022	7.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
10/18/2023	8.2	<0.89	<0.53	<0.73	<0.71	<0.52	<0.50		
MW001R	8-18	7/7/2025	2.8	<0.74	<0.53	<0.73	<0.51	<0.50	<0.52
MW002	8-18	5/17/2006	19.7	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW002(DUP)		9/10/2007	13.8	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
		9/10/2007	13.4	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW002(DUP)		9/23/2008	24.2	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
		9/23/2008	24.0	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
		10/29/2009	20.9	<2.00	<2.00	<2.00	<1.00	<1.00	<2.00
		4/28/2010	25.0	<2.00	<2.00	<2.00	<1.00	<1.00	<2.00
		6/10/2011	29.1	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
		5/22/2012	11.6	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
		5/28/2013	6.84	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
		5/19/2014	9.53	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
		5/4/2015	2.22	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
		5/3/2016	6.72	<0.190	<0.210	<0.210	<0.190	<0.250	<0.150
		5/2/2017	<0.160	<0.190	<0.210	<0.210	<0.190	<0.250	<0.150
		8/24/2017	1.53	<0.190	<0.210	<0.210	<0.190	<0.250	<0.150
		11/6/2018	2.26	<0.190	<0.210	<0.210	<0.190	<0.250	<0.150
		2/5/2019	3.62	<0.190	<0.210	<0.210	<0.190	<0.250	<0.150
11/6/2019	1.76	<0.190	<0.210	<0.210	<0.190	<0.250	<0.150		
12/16/2020	2.10	<0.610	<0.320	<0.390	<0.260	0.430 I	<0.310		
12/30/2021	3.20	<0.610	<0.320	<0.390	<0.260	3.5	0.62 I		
12/1/2022	4.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
10/18/2023	6.6	<0.89	<0.53	<0.73	<0.71	<0.52	<0.50		
MW002R	8-18	7/7/2025	7.0	<0.74	<0.53	<0.73	<0.51	<0.50	<0.52
MW003	28-33	5/17/2006	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
9/10/2007		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
MW004	8-18	5/17/2006	1.04	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
		9/10/2007	0.623 I	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
		6/10/2011	2.17	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
		5/22/2012	1.13 I	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
		5/28/2013	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
		5/19/2014	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
		5/4/2015	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
		5/3/2016	1.05	<0.190	<0.210	<0.210	<0.190	<0.250	<0.150
5/2/2017	<0.160	<0.190	<0.210	<0.210	<0.190	<0.250	<0.150		
MW005	8-18	5/17/2006	1.88	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
		9/10/2007	0.794 I	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
		6/10/2011	0.565 I	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
		5/22/2012	1.26 I	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
MW006	8-18	5/17/2006	7.65	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
		8/24/2006	6.43	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
		9/10/2007	4.72	<1.00	<1.00	<1.00	<1.00	2.10	0.805 I
		9/23/2008	7.55	<1.00	<1.00	<1.00	<1.00	1.03	<1.00
		10/29/2009	6.59	<2.00	<2.00	<2.00	<1.00	<1.00	<2.00
		4/28/2010	5.26	<2.00	<2.00	<2.00	<1.00	<1.00	<2.00
		6/10/2011	3.20	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
5/22/2012	1.81 I	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00		

Footnotes on Page 2

TABLE 2
 MONITOR WELL GROUNDWATER ANALYTICAL RESULTS
 Imperial Laundry and Dry Cleaners
 Winter Park, Florida
 FDEP Facility ID ERIC_5039



Sample			Analyte (µg/L)						
Field ID	Depth (ft bls)	Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC	Bromodichloro-methane	Dibromochloro-methane
FDEP GCTL			3	3	70	100	1	0.6	0.4
MW007	43-48	5/18/2006 9/10/2007	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00
MW008 MW008(DUP)	28-33	5/18/2006 5/18/2006 9/10/2007	<1.00 <1.00 <1.00	<1.00 <1.00 <1.00	<1.00 <1.00 <1.00	<1.00 <1.00 <1.00	<1.00 <1.00 <1.00	<1.00 <1.00 <1.00	<1.00 <1.00 <1.00
MW009	8-18	5/18/2006 9/10/2007 9/23/2008 6/10/2011 5/22/2012 5/28/2013 5/19/2014 5/4/2015 5/3/2016 5/2/2017 11/20/2018 12/30/2021 12/1/2022	6.15 1.49 3.64 3.45 <2.00 <2.00 <2.00 <2.00 1.02 <0.160 <0.160 <0.290 0.87 I	<1.00 <1.00 <1.00 <2.00 <2.00 <2.00 <2.00 <0.190 <0.190 <0.190 <0.610 <0.50	2.61 <1.00 <1.00 <2.00 <2.00 <2.00 <2.00 <0.210 <0.210 <0.210 <0.320 1.1	<1.00 <1.00 <1.00 <2.00 <2.00 <2.00 <2.00 <0.210 <0.210 <0.210 <0.390 <0.50	<1.00 <1.00 <1.00 <2.00 <2.00 <2.00 <2.00 <0.190 <0.190 <0.190 <0.260 <0.50	<1.00 <1.00 <1.00 3.81 <2.00 <2.00 <2.00 <2.00 12.2 <0.250 <0.250 <0.250 <0.230 <0.50	<1.00 <1.00 <1.00 1.5 <2.00 <2.00 <2.00 <2.00 5.46 <0.150 <0.150 <0.310 <0.50
(COULD NOT BE SAMPLED - WELL APPEARS TO BE COLLAPSED AT 10.60 FEET)									
MW010	28-33	5/17/2006 9/10/2007	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00
MW011	8-18	5/17/2006 9/10/2007 9/23/2008 10/29/2009 4/28/2010 6/10/2011 5/22/2012 5/28/2013 5/19/2014	1.96 4.19 8.80 5.63 2.98 2.97 1.03 I 2.91 <2.00	<1.00 <1.00 <1.00 <2.00 <2.00 <1.00 <2.00 <2.00 <2.00 <2.00	<1.00 <1.00 <1.00 <2.00 <2.00 <1.00 <2.00 <2.00 <2.00 <2.00	<1.00 <1.00 <1.00 <2.00 <2.00 <1.00 <2.00 <2.00 <2.00 <2.00	<1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <2.00 <2.00 <2.00 <2.00	<1.00 <1.00 2.20 1.01 <1.00 <1.00 <1.00 <1.00 <2.00 <2.00 <2.00 <2.00	<1.00 <1.00 <1.00 <2.00 <2.00 <1.00 <2.00 <2.00 <2.00 <2.00
MW012	8-18	5/17/2006 9/10/2007 9/23/2008 6/10/2011 5/22/2012 5/28/2013 5/19/2014 5/4/2015 5/3/2016 5/2/2017	2.78 1.81 9.66 3.73 1.04 I 5.04 3.67 3.30 2.45 <0.160	<1.00 <1.00 <1.00 <1.00 <2.00 <2.00 <2.00 <2.00 <0.190 <0.190	<1.00 <1.00 <1.00 <1.00 <2.00 <2.00 <2.00 <2.00 <0.210 <0.210	<1.00 <1.00 <1.00 <1.00 <2.00 <2.00 <2.00 <2.00 <0.210 <0.210	<1.00 <1.00 <1.00 <1.00 <2.00 <2.00 <2.00 <2.00 <0.190 <0.190	<1.00 3.39 <1.00 <1.00 <2.00 <2.00 <2.00 <2.00 <0.250 <0.250	<1.00 1.32 <1.00 <1.00 <2.00 <2.00 <2.00 <2.00 <0.150 <0.150
MW013	8-18	5/17/2006 9/10/2007	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00

Footnotes:

FDEP GCTL - Florida Department of Environmental Protection Groundwater Cleanup Target Levels per Chapter 62-777 Florida Administrative Code

ft bls - feet below land surface

µg/L - micrograms per liter

BOLD - exceeds FDEP GCTL

PCE - Tetrachloroethene

TCE - Trichloroethene

DCE - Dichloroethene

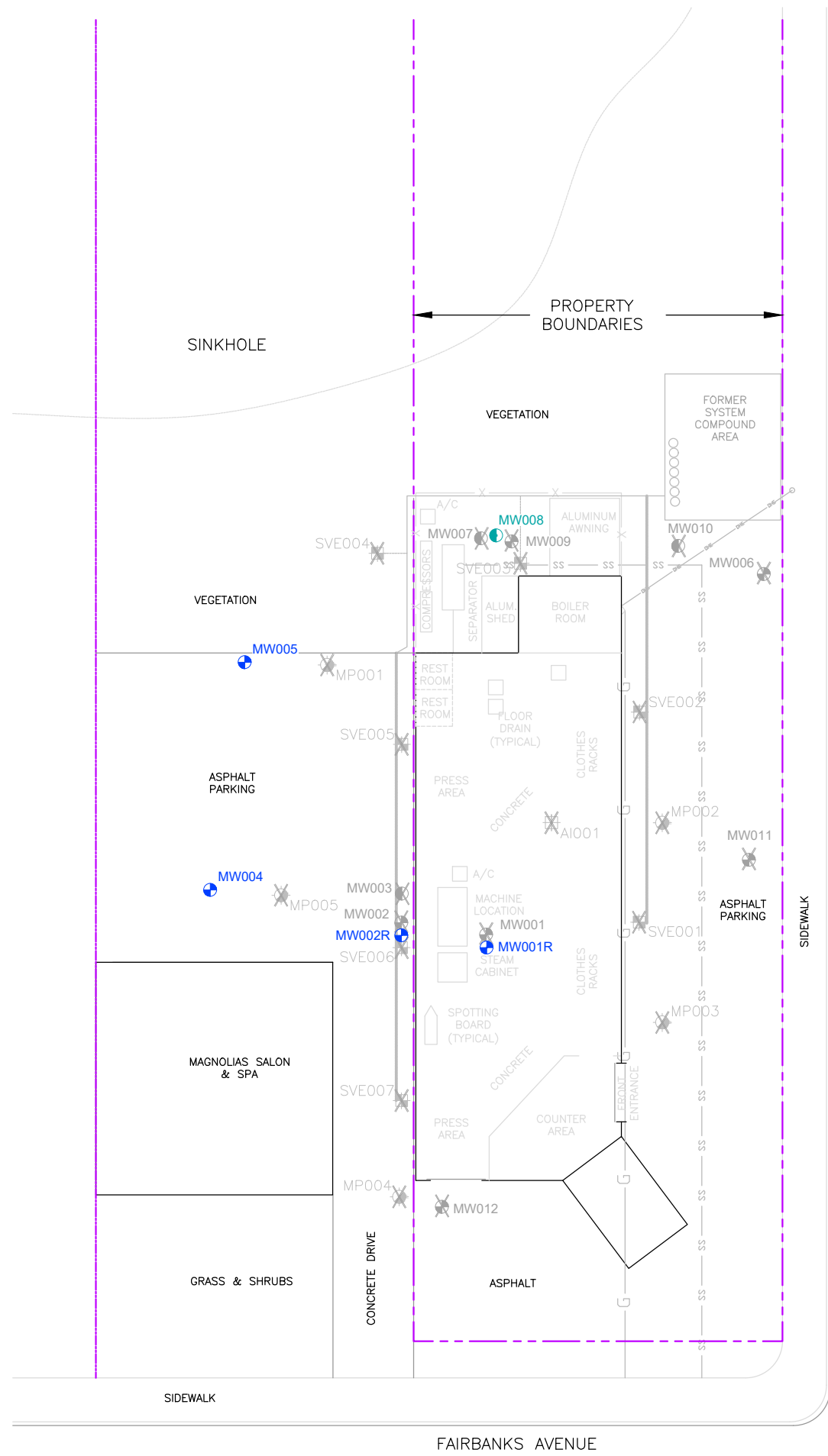
VC - Vinyl chloride

* - sample analyzed by a mobile laboratory.

I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

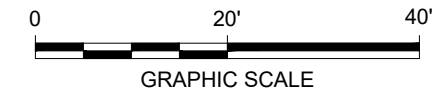
Figures

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LEGEND

- SHALLOW MONITOR WELL LOCATION
- INTERMEDIATE MONITOR WELL LOCATION
- SVE WELL LOCATION
- AIR INLET WELL LOCATION
- ABANDONED WELL LOCATION
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- GAS LINE
- TRENCH LINE
- FENCE



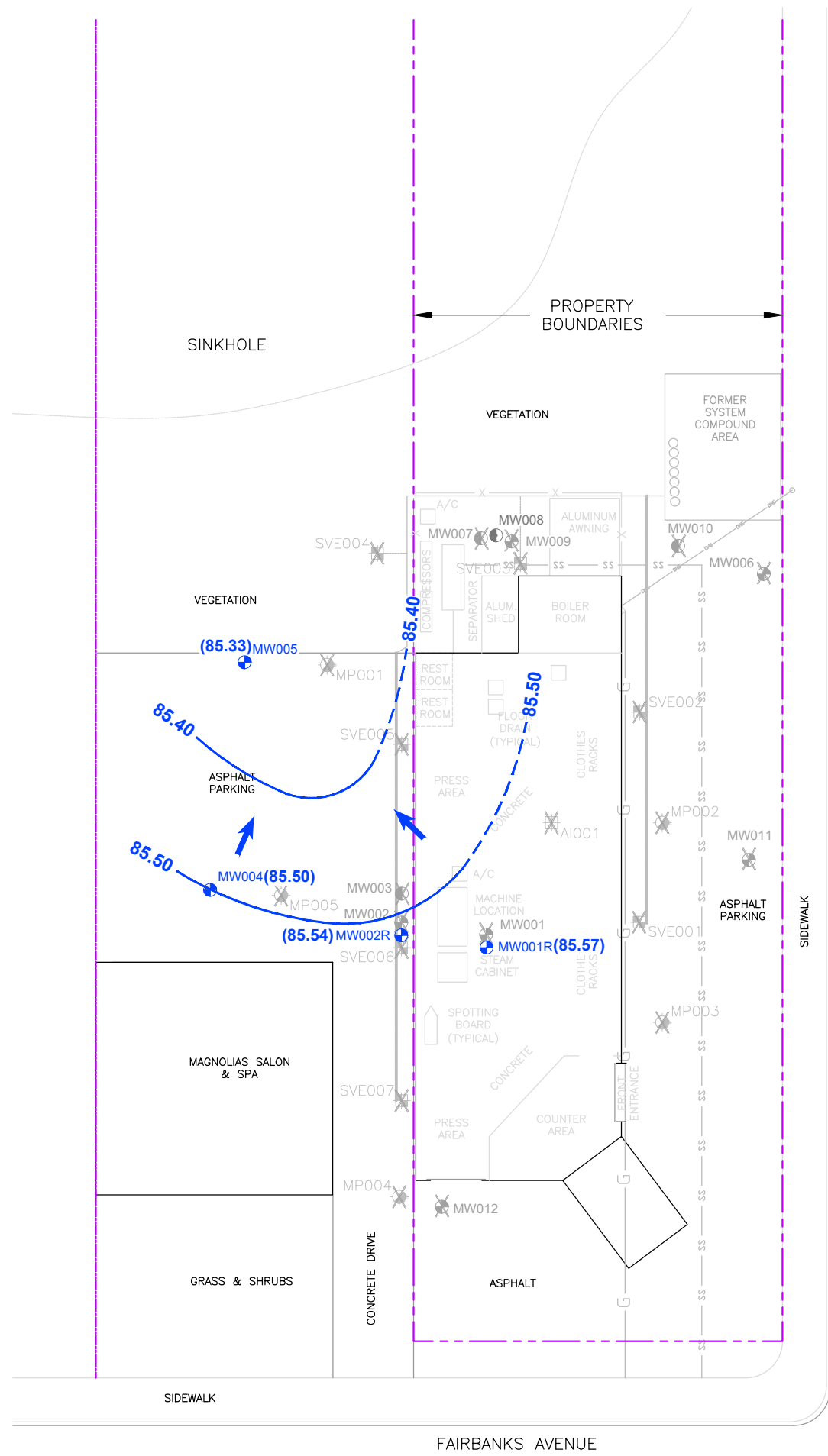
IMPERIAL LAUNDRY AND DRY CLEANERS
WINTER PARK, FLORIDA

SITE LAYOUT MAP

ARCADIS

FIGURE
1

CITY: BR, FL DIV/GROUP: ENV/CAD DE: B.O.L.I.V.A LD: (Opt) PIC: (Opt) PM: C.H.A.N.N.A TM: B.N.I.C.K.E L.V.R.(Opt/ON) OFF: REF-
 C:\Users\boliva\OneDrive\Documents\Projects\Imperial\Imperial_Laundry\DWG\ImperialDC-2025-SM.dwg LAYOUT: AUG25-F2_SGWE 20250707 SAVED: 8/20/2025 1:25 PM ACADVER: 24.15 (LMS TECH) PAGES: 10 PLOTSTYLETABLE: ACS-COLOR_ANALYTICAL.CTB PLOTTED: 8/20/2025 1:25 PM BY: OLIVIA, BRIAN



DENNING DRIVE

MW013

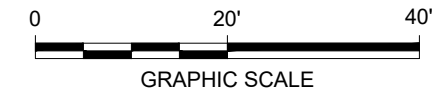
SIDEWALK

CONCRETE DRIVE

FAIRBANKS AVENUE

LEGEND

- SHALLOW MONITOR WELL LOCATION
- INTERMEDIATE MONITOR WELL LOCATION
- SVE WELL LOCATION
- AIR INLET WELL LOCATION
- ABANDONED WELL LOCATION
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- GAS LINE
- TRENCH LINE
- FENCE
- GROUNDWATER ELEVATION (ft N.G.V.D.)
(NM indicates Not Measured, * indicates value not used for contouring)
- GROUNDWATER ELEVATION CONTOUR (ft N.G.V.D.)
INDICATES PREDOMINANT DIRECTION OF GROUNDWATER FLOW

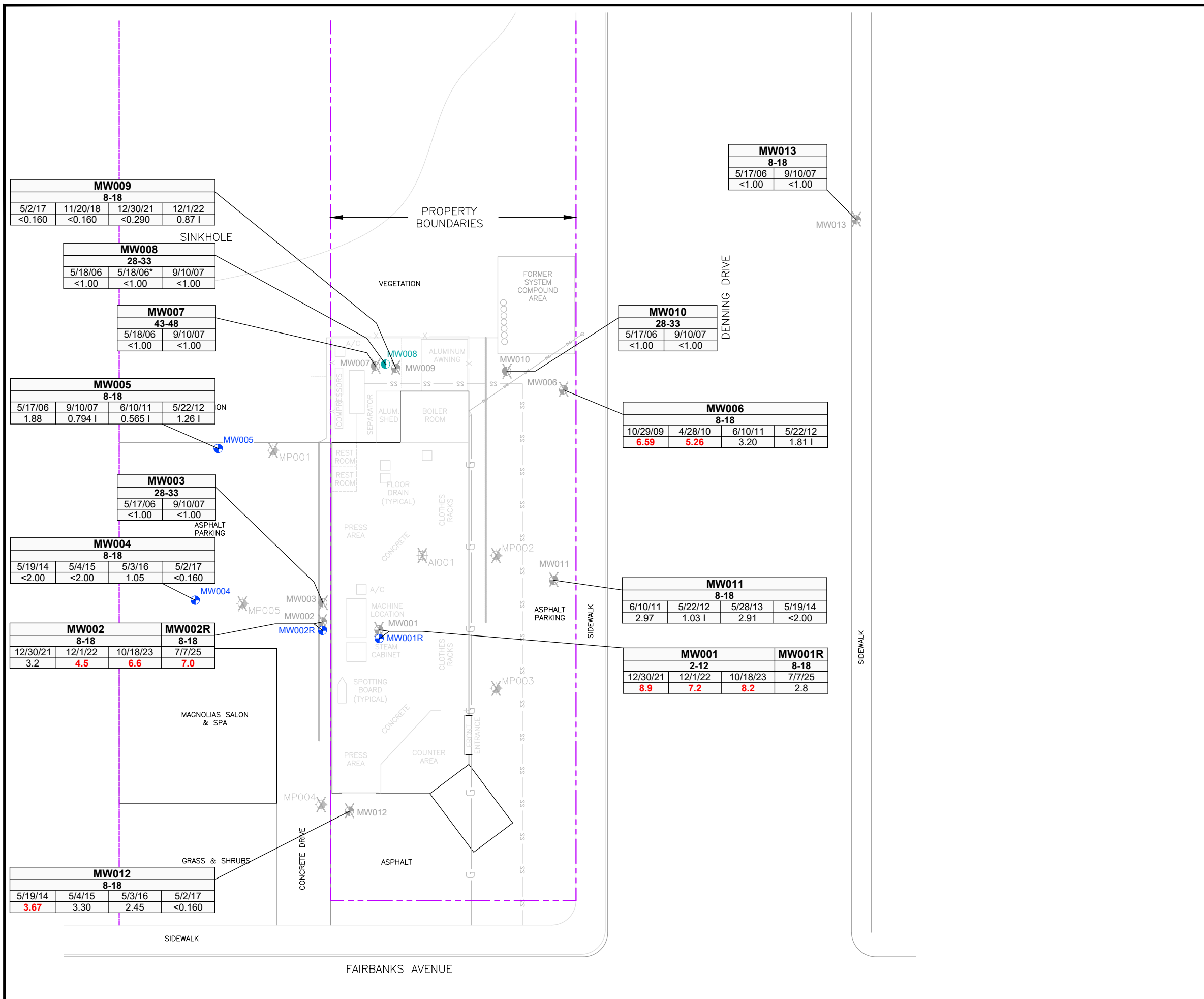


IMPERIAL LAUNDRY AND DRY CLEANERS
WINTER PARK, FLORIDA

**SHALLOW GROUNDWATER GRADIENT
JULY 7, 2025**

ARCADIS

CITY: BR_FL DIV: GROUP: ENV: CAD DB: B.BOLIVA LD: (OP) PIC: (OP) PM: C.HANNA TM: B.NCKE LVR: (OH) ON: OFF=REF-
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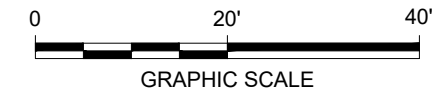


LEGEND

- SHALLOW MONITOR WELL LOCATION
- INTERMEDIATE MONITOR WELL LOCATION
- SVE WELL LOCATION
- ⊕ AIR INLET WELL LOCATION
- ✕ ABANDONED WELL LOCATION
- DHE — OVERHEAD POWER LINE
- SS — SANITARY SEWER LINE
- G — GAS LINE
- TRENCH LINE
- - - FENCE

MW001R	SAMPLE I.D.
8-18	SAMPLE INTERVAL (FT. BG)
7/7/25	SAMPLE DATE
2.8	PCE CONCENTRATION

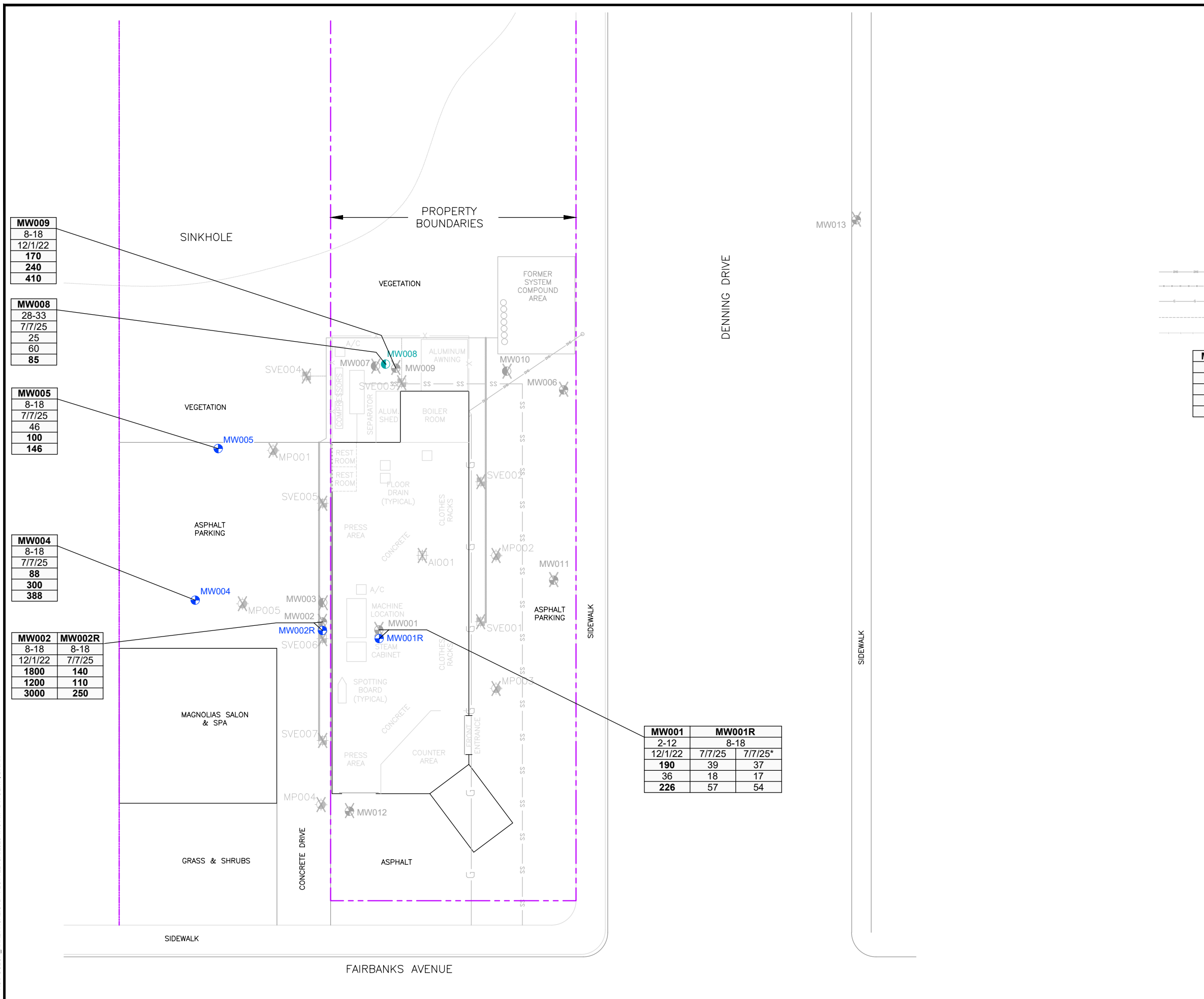
- NOTES:**
- 1.** **Bold** indicates GCTL (3 ug/L) exceedance.
 - 2.** All concentrations in micrograms per liter (ug/L).
 - 3.** GCTL=Florida Department of Environmental Protection Groundwater Cleanup Target Levels per Chapter 62-777 Florida Administrative Code.
 - 4.** * indicates duplicate sample result.



IMPERIAL LAUNDRY AND DRY CLEANERS
WINTER PARK, FLORIDA

**PCE CONCENTRATIONS
IN GROUNDWATER**

FIGURE
3



LEGEND

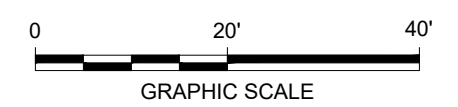
- SHALLOW MONITOR WELL LOCATION
- INTERMEDIATE MONITOR WELL LOCATION
- SVE WELL LOCATION
- AIR INLET WELL LOCATION
- X ABANDONED WELL LOCATION
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- GAS LINE
- TRENCH LINE
- FENCE

MW001R	SAMPLE I.D.
8-18	SAMPLE INTERVAL (FT. BG)
7/7/25	SAMPLE DATE
39	PFOA CONCENTRATION (ng/L)
18	PFOS CONCENTRATION (ng/L)
57	TOTAL PFOA & PFOS CONCENTRATION (ng/L)

NOTES:

1. PFOA = Perfluoroalkylcarboxylic Acids (CAS No. 335-67-1).
2. PFOS = Perfluoroalkylsulfonates (CAS No. 1763-23-1).
3. Bold result indicates AGCTL exceedance.
4. "I" indicates result is between laboratory Practical Quantitation Limit [PQL] and laboratory Method Detection Limit [MDL].
5. AGCTL = Alternative Groundwater Cleanup Target Level for PFOA and PFOS as included in the "Calculation of an AGCTL for PFOA/PFOS Protective of Sensitive Lifestages" letter issued by the University of Florida, April 16, 2018 to Florida Department of Environmental Protection (FDEP).
6. * indicates duplicate sample result.
7. Results in nanograms per liter (ng/L).

AGCTL (ng/L)	
PFOA	70
PFOS	70
TOTAL PFOA & PFOS	70



MW001	MW001R	
2-12	8-18	
12/1/22	7/7/25	7/7/25*
190	39	37
36	18	17
226	57	54

MW009
8-18
12/1/22
170
240
410

MW008
28-33
7/7/25
25
60
85

MW005
8-18
7/7/25
46
100
146

MW004
8-18
7/7/25
88
300
388

MW002	MW002R
8-18	8-18
12/1/22	7/7/25
1800	140
1200	110
3000	250

IMPERIAL LAUNDRY AND DRY CLEANERS
WINTER PARK, FLORIDA

**GROUNDWATER
PFAS ANALYTICAL RESULTS**

FIGURE
4

Appendix A

Well Completion Reports



STATE OF FLORIDA WELL COMPLETION REPORT

Southwest PLEASE, FILL OUT ALL APPLICABLE FIELDS
Northwest (*Denotes Required Fields Where Applicable)
St. Johns River
South Florida
Suwannee River
DEP
[X] Delegated Authority (If Applicable) Orange DOH

Date Stamp 08/05/2025
Confirmation# 983346
Well Name:
Official Use Only

1. *Permit Number 238035-1 *CUP/WUP Number *DID Number 578035 62-524 Delineation No.
2. *Number of permitted wells constructed, repaired, or abandoned 1 *Number of permitted wells not constructed, repaired, or abandoned 0
3. *Owner's Name City Of Winter Park 4.*Completion Date 06/30/2025 5. Florida Unique ID
6. 901 W Fairbanks Ave, Winter Park, FL 32789
*Well Location - Address, Road Name or Number, City, ZIP
7. *County Orange *Section 1 Land Grant *Township 22S *Range 29E
8. Latitude 283535.8846 Longitude 812140.1979
9. Data Obtained From: GPS X Map Survey Datum: NAD 27 X NAD 83 WGS 84
10. *Type of Work: Construction Repair Modification X Abandonment Reason: NO LONGER IN USE
11. *Specify Intended Use(s) of Well(s):
Domestic Landscape Irrigation Agricultural Irrigation Site Investigation
Bottled Water Supply Recreation Area Irrigation Livestock X Monitoring
Public Water Supply (Limited Use/DOH) Nursery Irrigation Test
Public Water Supply (Community or Non-Community/DEP) Commercial/Industrial Earth-Coupled Geothermal
Class I Injection Golf Course Irrigation HVAC Supply
Class V Injection: Recharge Commercial/Industrial Disposal Aquifer Storage and Recovery Drainage
Remediation: Recovery Air Sparge Other (Describe)
Other (Describe)
12. *Drill Method: Auger Cable Tool Rotary Combination (Two or More Methods) Jetted Sonic
Horizontal Drilling Hydraulic Point (Direct Push) Other
13. *Measured Static Water Level 9.5 ft. Measured Pumping Water Level ft. After Hours at GPM
14. *Measuring Point (Describe) Ground Surface Which is ft. Above Below Land Surface *Flowing: Yes X No
15. *Casing Material: Black Steel Galvanized X PVC Stainless Steel Not Cased Other
16. *Total Well Depth 18 ft. Cased Depth ft. *Open Hole: From 0 To 0 ft. *Screen: From To ft. Slot Size
17. *Abandonment: Other (Explain)
From 0 ft. To 18 ft. No. of Bags 0.18 Seal Material (Check One): Neat Cement Bentonite X Other Neat/Portland Cement
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
18. *Surface Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
19. *Primary Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
20. *Liner Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
21. *Telescope Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
22. Pump Type (If known): Centrifugal Jet Submersible Turbine
Horsepower Pump Capacity (GPM)
Pump Depth ft. Intake Depth ft.
23. Chemical Analysis (When Required): Iron ppm Sulfate ppm Chloride ppm
Laboratory Test Field Test Kit
24. Water Well Contractor:
*Contractor Name Gregory W Campbell *License Number 2613 E-mail Address shannon@pdsflorida.com
*Contractor's Signature Gregory W Campbell *Driller's Name (Print or Type) Kendal Carmichael
(I certify that the information provided in this report is accurate and true.)

*Detailed Site Map of Well Location





STATE OF FLORIDA WELL COMPLETION REPORT

Southwest PLEASE, FILL OUT ALL APPLICABLE FIELDS
Northwest (*Denotes Required Fields Where Applicable)
St. Johns River
South Florida
Suwannee River
DEP
[X] Delegated Authority (If Applicable) Orange DOH

Date Stamp 08/05/2025
Confirmation# 983366
Well Name:
Official Use Only

1. *Permit Number 238036-1 *CUP/WUP Number *DID Number 578036 62-524 Delineation No.
2. *Number of permitted wells constructed, repaired, or abandoned 1 *Number of permitted wells not constructed, repaired, or abandoned 0
3. *Owner's Name City Of Winter Park 4.*Completion Date 06/30/2025 5. Florida Unique ID
6. 919 W Fairbanks Ave, Winter Park, FL 32789
*Well Location - Address, Road Name or Number, City, ZIP
7. *County Orange *Section 1 Land Grant *Township 22S *Range 29E
8. Latitude 283535.9 Longitude 812140.338
9. Data Obtained From: GPS X Map Survey Datum: NAD 27 X NAD 83 WGS 84

10. *Type of Work: Construction Repair Modification X Abandonment Reason: NO LONGER IN USE
11. *Specify Intended Use(s) of Well(s):
Domestic Landscape Irrigation Agricultural Irrigation Site Investigation
Bottled Water Supply Recreation Area Irrigation Livestock X Monitoring
Public Water Supply (Limited Use/DOH) Nursery Irrigation Test
Public Water Supply (Community or Non-Community/DEP) Commercial/Industrial Earth-Coupled Geothermal
Class I Injection Golf Course Irrigation HVAC Supply
Class V Injection: Recharge Commercial/Industrial Disposal Aquifer Storage and Recovery Drainage
Remediation: Recovery Air Sparge Other (Describe)
Other (Describe)

12. *Drill Method: Auger Cable Tool Rotary Combination (Two or More Methods) Jetted Sonic
Horizontal Drilling Hydraulic Point (Direct Push) Other
13. *Measured Static Water Level 9.5 ft. Measured Pumping Water Level ft. After Hours at GPM
14. *Measuring Point (Describe) Ground Surface Which is ft. Above Below Land Surface *Flowing: Yes X No
15. *Casing Material: Black Steel Galvanized X PVC Stainless Steel Not Cased Other
16. *Total Well Depth 18 ft. Cased Depth ft. *Open Hole: From 0 To 0 ft. *Screen: From To ft. Slot Size

17. *Abandonment: Other (Explain)
From 0 ft. To 18 ft. No. of Bags 0.18 Seal Material (Check One): Neat Cement Bentonite X Other Neat/Portland Cement
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other

18. *Surface Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other

19. *Primary Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other

20. *Liner Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other

21. *Telescope Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other

22. Pump Type (If known): Centrifugal Jet Submersible Turbine 23. Chemical Analysis (When Required):
Horsepower Pump Capacity (GPM) Iron ppm Sulfate ppm Chloride ppm
Pump Depth ft. Intake Depth ft. Laboratory Test Field Test Kit

24. Water Well Contractor:
*Contractor Name Gregory W Campbell *License Number 2613 E-mail shannon@pdsflorida.com
Address
*Contractor's Signature Gregory W Campbell *Driller's Name (Print or Type) Kendal Carmichael
(I certify that the information provided in this report is accurate and true.)

*Detailed Site Map of Well Location





STATE OF FLORIDA WELL COMPLETION REPORT

Southwest PLEASE, FILL OUT ALL APPLICABLE FIELDS
Northwest (*Denotes Required Fields Where Applicable)
St. Johns River
South Florida
Suwannee River
DEP
[X] Delegated Authority (If Applicable) Orange DOH

Date Stamp 08/05/2025
Confirmation# 983355
Well Name:
Official Use Only

1. *Permit Number 237992-1 *CUP/WUP Number *DID Number 578001 62-524 Delineation No.
2. *Number of permitted wells constructed, repaired, or abandoned 3 *Number of permitted wells not constructed, repaired, or abandoned 0
3. *Owner's Name City Of Winter Park 4.*Completion Date 06/30/2025 5. Florida Unique ID
6. 901 W Fairbanks Ave, Winter Park, FL 32789
*Well Location - Address, Road Name or Number, City, ZIP
7. *County Orange *Section 1 Land Grant *Township 22S *Range 29E
8. Latitude 283535.5558 Longitude 812140.2098
9. Data Obtained From: GPS X Map Survey Datum: NAD 27 X NAD 83 WGS 84
10. *Type of Work: Construction Repair Modification X Abandonment Reason: NO LONGER IN USE
11. *Specify Intended Use(s) of Well(s):
Domestic Landscape Irrigation Agricultural Irrigation Site Investigation
Bottled Water Supply Recreation Area Irrigation Livestock X Monitoring
Public Water Supply (Limited Use/DOH) Nursery Irrigation Test
Public Water Supply (Community or Non-Community/DEP) Commercial/Industrial Earth-Coupled Geothermal
Class I Injection Golf Course Irrigation HVAC Supply
Class V Injection: Recharge Commercial/Industrial Disposal Aquifer Storage and Recovery Drainage
Remediation: Recovery Air Sparge Other (Describe)
Other (Describe)
12. *Drill Method: Auger Cable Tool Rotary Combination (Two or More Methods) Jetted Sonic
Horizontal Drilling Hydraulic Point (Direct Push) Other
13. *Measured Static Water Level 9.5 ft. Measured Pumping Water Level ft. After Hours at GPM
14. *Measuring Point (Describe) Ground Surface Which is ft. Above Below Land Surface *Flowing: Yes X No
15. *Casing Material: Black Steel Galvanized X PVC Stainless Steel Not Cased Other
16. *Total Well Depth 18 ft. Cased Depth ft. *Open Hole: From 0 To 0 ft. *Screen: From To ft. Slot Size
17. *Abandonment:
Other (Explain)
From 0 ft. To 18 ft. No. of Bags 0.18 Seal Material (Check One): Neat Cement Bentonite X Other Neat/Portland Cement
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
18. *Surface Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
19. *Primary Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
20. *Liner Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
21. *Telescope Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
22. Pump Type (If known): Centrifugal Jet Submersible Turbine
Horsepower Pump Capacity (GPM)
Pump Depth ft. Intake Depth ft.
23. Chemical Analysis (When Required):
Iron ppm Sulfate ppm Chloride ppm
Laboratory Test Field Test Kit
24. Water Well Contractor:
*Contractor Name Gregory W Campbell *License Number 2613 E-mail shannon@pdsflorida.com
Address
*Contractor's Signature Gregory W Campbell *Driller's Name (Print or Type) Kendal Carmichael
(I certify that the information provided in this report is accurate and true.)

*Detailed Site Map of Well Location





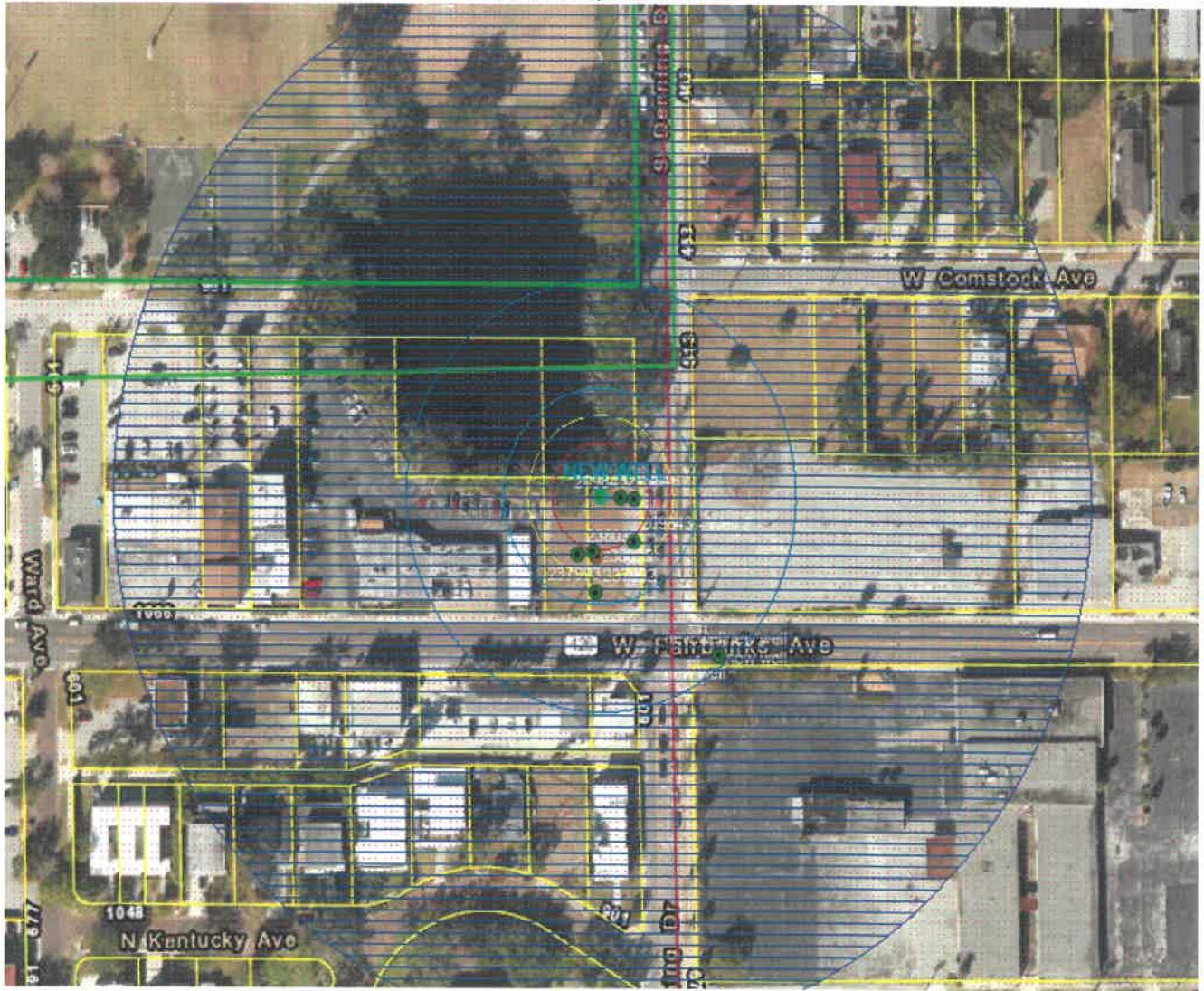
STATE OF FLORIDA WELL COMPLETION REPORT

Southwest PLEASE, FILL OUT ALL APPLICABLE FIELDS
Northwest (*Denotes Required Fields Where Applicable)
St. Johns River
South Florida
Suwannee River
DEP
[X] Delegated Authority (If Applicable) Orange DOH

Date Stamp 08/05/2025
Confirmation# 983360
Well Name:
Official Use Only

1. *Permit Number 237992-1 *CUP/WUP Number *DID Number 579814 62-524 Delineation No.
2. *Number of permitted wells constructed, repaired, or abandoned 3 *Number of permitted wells not constructed, repaired, or abandoned 0
3. *Owner's Name City Of Winter Park 4.*Completion Date 06/30/2025 5. Florida Unique ID
6. 901 W Fairbanks Ave, Winter Park, FL 32789
*Well Location - Address, Road Name or Number, City, ZIP
7. *County Orange *Section 1 Land Grant *Township 22S *Range 29E
8. Latitude 283536.4545 Longitude 812140.1663
9. Data Obtained From: GPS X Map Survey Datum: NAD 27 X NAD 83 WGS 84
10. *Type of Work: Construction Repair Modification X Abandonment Reason: NO LONGER IN USE
11. *Specify Intended Use(s) of Well(s):
Domestic Landscape Irrigation Agricultural Irrigation Site Investigation
Bottled Water Supply Livestock X Monitoring
Public Water Supply (Limited Use/DOH) Recreation Area Irrigation Nursery Irrigation Test
Public Water Supply (Community or Non-Community/DEP) Commercial/Industrial Earth-Coupled Geothermal
Class I Injection Golf Course Irrigation HVAC Supply
Class V Injection: Recharge Commercial/Industrial Disposal Aquifer Storage and Recovery Drainage
Remediation: Recovery Air Sparge Other (Describe)
Other (Describe)
12. *Drill Method: Auger Cable Tool Rotary Combination (Two or More Methods) Jetted Sonic
Horizontal Drilling Hydraulic Point (Direct Push) Other
13. *Measured Static Water Level 9.5 ft. Measured Pumping Water Level ft. After Hours at GPM
14. *Measuring Point (Describe) Ground Surface Which is ft. Above Below Land Surface *Flowing: Yes X No
15. *Casing Material: Black Steel Galvanized X PVC Stainless Steel Not Cased Other
16. *Total Well Depth 18 ft. Cased Depth ft. *Open Hole: From 0 To 0 ft. *Screen: From To ft. Slot Size
17. *Abandonment:
Other (Explain)
From 0 ft. To 18 ft. No. of Bags 0.18 Seal Material (Check One): Neat Cement Bentonite X Other Neat/Portland Cement
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
18. *Surface Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
19. *Primary Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
20. *Liner Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
21. *Telescope Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
22. Pump Type (if known): Centrifugal Jet Submersible Turbine
Horsepower Pump Capacity (GPM)
Pump Depth ft. Intake Depth ft.
23. Chemical Analysis (When Required): Iron ppm Sulfate ppm Chloride ppm
Laboratory Test Field Test Kit
24. Water Well Contractor:
*Contractor Name Gregory W Campbell *License Number 2613 E-mail Address shannon@pdsflorida.com
*Contractor's Signature Gregory W Campbell *Driller's Name (Print or Type) Kendal Carmichael
(I certify that the information provided in this report is accurate and true.)

*Detailed Site Map of Well Location





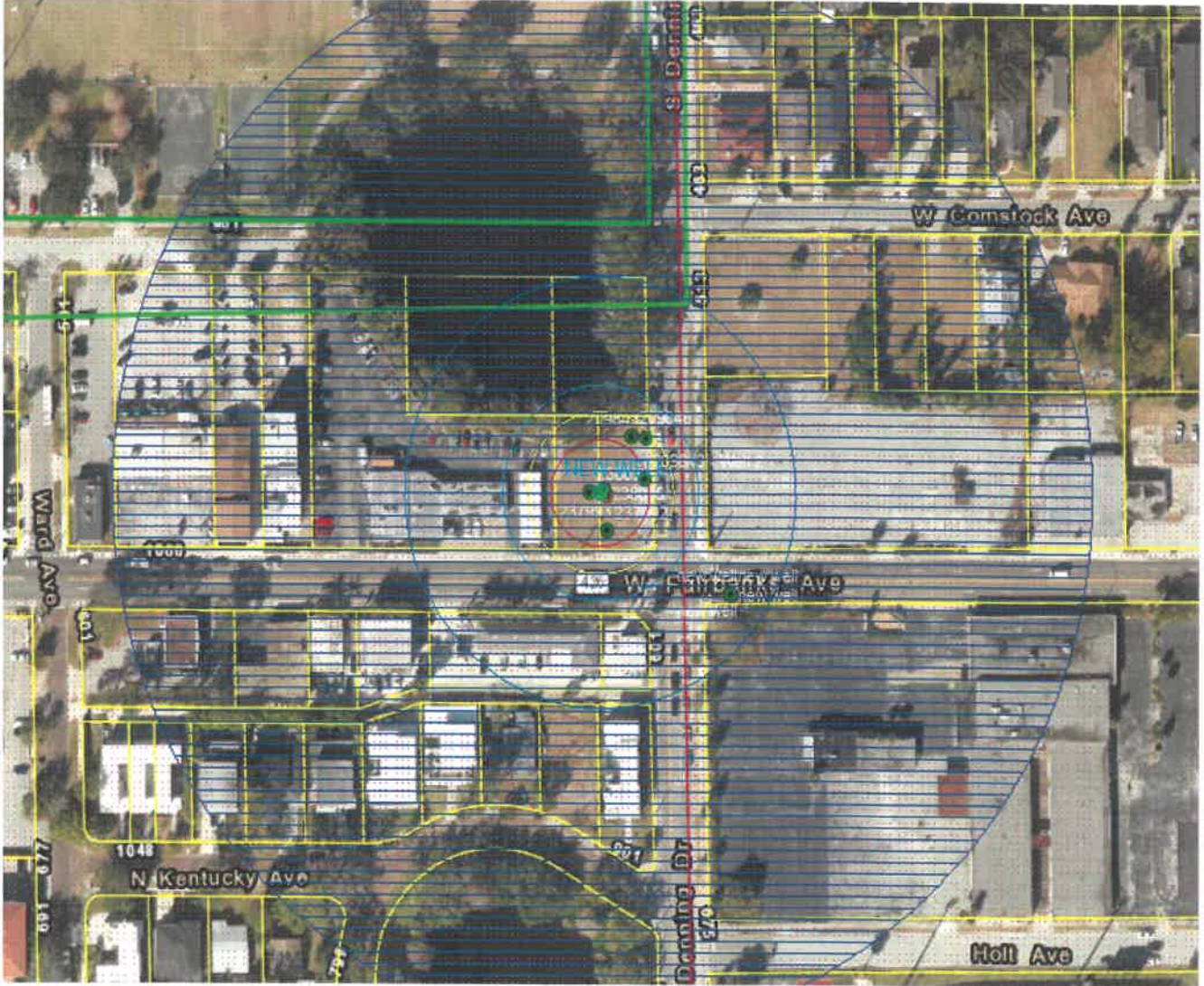
STATE OF FLORIDA WELL COMPLETION REPORT

- Southwest
Northwest
St. Johns River
South Florida
Suwannee River
DEP
[X] Delegated Authority (If Applicable) Orange DOH

Date Stamp
08/05/2025
Confirmation#
983363
Well Name:
Official Use Only

1. *Permit Number 237992-1 *CUP/WUP Number *DID Number 579815 62-524 Delineation No.
2. *Number of permitted wells constructed, repaired, or abandoned 3 *Number of permitted wells not constructed, repaired, or abandoned 0
3. *Owner's Name City Of Winter Park 4.*Completion Date 06/30/2025 5. Florida Unique ID
6. 901 W Fairbanks Ave, Winter Park, FL 32789
*Well Location - Address, Road Name or Number, City, ZIP
7. *County Orange *Section 1 Land Grant *Township 22S *Range 29E
8. Latitude 283535.9182 Longitude 812140.2991
9. Data Obtained From: GPS X Map Survey Datum: NAD 27 X NAD 83 WGS 84
10. *Type of Work: Construction Repair Modification X Abandonment Reason: NO LONGER IN USE
11. *Specify Intended Use(s) of Well(s):
Domestic Landscape Irrigation Agricultural Irrigation Site Investigation
Bottled Water Supply Recreation Area Irrigation Livestock X Monitoring
Public Water Supply (Limited Use/DOH) Nursery Irrigation Test
Public Water Supply (Community or Non-Community/DEP) Commercial/Industrial Earth-Coupled Geothermal
Class I Injection Golf Course Irrigation HVAC Supply
Class V Injection: Recharge Commercial/Industrial Disposal Aquifer Storage and Recovery Drainage
Remediation: Recovery Air Sparge Other (Describe)
Other (Describe)
12. *Drill Method: Auger Cable Tool Rotary Combination (Two or More Methods) Jetted Sonic
Horizontal Drilling Hydraulic Point (Direct Push) Other
13. *Measured Static Water Level 9.5 ft. Measured Pumping Water Level ft. After Hours at GPM
14. *Measuring Point (Describe) Ground Surface Which is ft. Above Below Land Surface *Flowing: Yes X No
15. *Casing Material: Black Steel Galvanized X PVC Stainless Steel Not Cased Other
16. *Total Well Depth 33 ft. Cased Depth ft. *Open Hole: From 0 To 0 ft. *Screen: From To ft. Slot Size
17. *Abandonment:
Other (Explain)
From 0 ft. To 33 ft. No. of Bags 0.33 Seal Material (Check One): Neat Cement Bentonite X Other Neat/Portland Cement
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
18. *Surface Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
19. *Primary Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
20. *Liner Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
21. *Telescope Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
22. Pump Type (if known):
Centrifugal Jet Submersible Turbine
Horsepower Pump Capacity (GPM)
Pump Depth ft. Intake Depth ft.
23. Chemical Analysis (When Required):
Iron ppm Sulfate ppm Chloride ppm
Laboratory Test Field Test Kit
24. Water Well Contractor:
*Contractor Name Gregory W Campbell *License Number 2613 E-mail shannon@pdsflorida.com
Address
*Contractor's Signature Gregory W Campbell *Driller's Name (Print or Type) Kendal Carmichael
(I certify that the information provided in this report is accurate and true.)

*Detailed Site Map of Well Location





STATE OF FLORIDA WELL COMPLETION REPORT

Southwest PLEASE, FILL OUT ALL APPLICABLE FIELDS
Northwest (*Denotes Required Fields Where Applicable)
St. Johns River
South Florida
Suwannee River
DEP
[X] Delegated Authority (If Applicable) Orange DOH

Date Stamp 08/05/2025
Confirmation# 983332
Well Name:
Official Use Only

1. *Permit Number 237993-1 *CUP/WUP Number *DID Number 578002 62-524 Delineation No.
2. *Number of permitted wells constructed, repaired, or abandoned 2 *Number of permitted wells not constructed, repaired, or abandoned 0
3. *Owner's Name City Of Winter Park 4.*Completion Date 06/30/2025 5. Florida Unique ID
6. 901 W Fairbanks Ave, Winter Park, FL 32789
*Well Location - Address, Road Name or Number, City, ZIP
7. *County Orange *Section 1 Land Grant *Township 22S *Range 29E
8. Latitude 283535.8824 Longitude 812140.2041
9. Data Obtained From: GPS X Map Survey Datum: NAD 27 X NAD 83 WGS 84
10. *Type of Work: X Construction Repair Modification Abandonment Reason:
11. *Specify Intended Use(s) of Well(s):
Domestic Landscape Irrigation Agricultural Irrigation Site Investigation
Bottled Water Supply Recreation Area Irrigation Livestock X Monitoring
Public Water Supply (Limited Use/DOH) Nursery Irrigation Test
Public Water Supply (Community or Non-Community/DEP) Commercial/Industrial Earth-Coupled Geothermal
Class I Injection Golf Course Irrigation HVAC Supply
Class V Injection: Recharge Commercial/Industrial Disposal Aquifer Storage and Recovery Drainage
Remediation: Recovery Air Sparge Other (Describe)
Other (Describe)
12. *Drill Method: Auger Cable Tool Rotary Combination (Two or More Methods) Jetted Sonic
Horizontal Drilling X Hydraulic Point (Direct Push) Other
13. *Measured Static Water Level 9.5 ft. Measured Pumping Water Level ft. After Hours at GPM
14. *Measuring Point (Describe) Ground Surface Which is ft. Above Below Land Surface *Flowing: Yes X No
15. *Casing Material: Black Steel Galvanized X PVC Stainless Steel Not Cased Other
16. *Total Well Depth 18 ft. Cased Depth 8 ft. *Open Hole: From To ft. *Screen: From 8 To 18 ft. Slot Size 0.01
17. *Abandonment: Other (Explain)
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
18. *Surface Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
19. *Primary Casing Diameter and Depth:
Dia 1 in. From 0 ft. To 8 ft. No. of Bags 0.24 Seal Material (Check One): X Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
20. *Liner Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
21. *Telescope Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
22. Pump Type (If known): Centrifugal Jet Submersible Turbine
Horsepower Pump Capacity (GPM)
Pump Depth ft. Intake Depth ft.
23. Chemical Analysis (When Required):
Iron ppm Sulfate ppm Chloride ppm
Laboratory Test Field Test Kit
24. Water Well Contractor:
*Contractor Name Gregory W Campbell *License Number 2613 E-mail Address shannon@pdsflorida.com
*Contractor's Signature Gregory W Campbell *Driller's Name (Print or Type) Kendal Carmichael
(I certify that the information provided in this report is accurate and true.)

*Detailed Site Map of Well Location





STATE OF FLORIDA WELL COMPLETION REPORT

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)
Southwest
Northwest
St. Johns River
South Florida
Suwannee River
DEP
X Delegated Authority (If Applicable) Orange DOH

Date Stamp
08/05/2025
Confirmation#
983336
Well Name:
Official Use Only

1. *Permit Number 237993-1 *CUP/WUP Number *DID Number 579807 62-524 Delineation No.
2. *Number of permitted wells constructed, repaired, or abandoned 2 *Number of permitted wells not constructed, repaired, or abandoned 0
3. *Owner's Name City Of Winter Park 4.*Completion Date 06/30/2025 5. Florida Unique ID
6. 901 W Fairbanks Ave, Winter Park, FL 32789
*Well Location - Address, Road Name or Number, City, ZIP
7. *County Orange *Section 1 Land Grant *Township 22S *Range 29E
8. Latitude 283535.9057 Longitude 812140.2934
9. Data Obtained From: GPS X Map Survey Datum: NAD 27 X NAD 83 WGS 84

10. *Type of Work: X Construction Repair Modification Abandonment Reason:
11. *Specify Intended Use(s) of Well(s):
Domestic Landscape Irrigation Agricultural Irrigation Site Investigation
Bottled Water Supply Recreation Area Irrigation Livestock X Monitoring
Public Water Supply (Limited Use/DOH) Nursery Irrigation Test
Public Water Supply (Community or Non-Community/DEP) Commercial/Industrial Earth-Coupled Geothermal
Class I Injection Golf Course Irrigation HVAC Supply
Class V Injection: Recharge Commercial/Industrial Disposal Aquifer Storage and Recovery Drainage
Remediation: Recovery Air Sparge Other (Describe)
Other (Describe)

12. *Drill Method: Auger Cable Tool Rotary Combination (Two or More Methods) Jetted Sonic
Horizontal Drilling X Hydraulic Point (Direct Push) Other
13. *Measured Static Water Level 9.5 ft. Measured Pumping Water Level ft. After Hours at GPM
14. *Measuring Point (Describe) Ground Surface Which is ft. Above Below Land Surface *Flowing: Yes X No
15. *Casing Material: Black Steel Galvanized X PVC Stainless Steel Not Cased Other
16. *Total Well Depth 18 ft. Cased Depth 8 ft. *Open Hole: From To ft. *Screen: From 8 To 18 ft. Slot Size 0.01

17. *Abandonment: Other (Explain)
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
18. *Surface Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
19. *Primary Casing Diameter and Depth:
Dia 1 in. From 0 ft. To 8 ft. No. of Bags 0.24 Seal Material (Check One): X Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
20. *Liner Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
21. *Telescope Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other

22. Pump Type (If known): Centrifugal Jet Submersible Turbine
Horsepower Pump Capacity (GPM)
Pump Depth ft. Intake Depth ft.
23. Chemical Analysis (When Required): Iron ppm Sulfate ppm Chloride ppm
Laboratory Test Field Test Kit

24. Water Well Contractor:
*Contractor Name Gregory W Campbell *License Number 2613 E-mail Address shannon@pdsflorida.com
*Contractor's Signature Gregory W Campbell *Driller's Name (Print or Type) Kendal Carmichael

*Detailed Site Map of Well Location



Appendix B

Field Logs

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: MW001R	Site Name: Imperial Cleaners	FDEP Facility I.D. Number: ERIC-5039	Well Install Date(s): 06-30-25		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)		Well Install Method: DPT	
If AG, list feet of riser above land surface: N/A				Surface Casing Install Method: N/A	
Borehole Depth (feet): 18	Well Depth (feet): 18	Borehole Diameter (inches): 3.25	Manhole Diameter (inches): 8	Well Pad Size: 2 feet by 2 feet	
Riser Diameter and Material: 1" SCH 40 PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 8 feet from 0 feet to 8 feet		
Screen Diameter and Material: 1" SCH 40 PVC		Screen Slot Size: 0.010"	Screen Length: 10 feet from 8 feet to 18 feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: SAND, 20/30		Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Filter Pack Length: 12 feet from 6 feet to 18 feet		
Filter Pack Seal Material and Size: SAND, 30/65			Filter Pack Seal Length: 2 feet from 4 feet to 6 feet		
Surface Seal Material: Portland cement Type 1L			Surface Seal Length: 4 feet from 0 feet to 4 feet		

WELL DEVELOPMENT DATA			
Well Development Date: 06-30-25		Well Development Method (check one): <input type="checkbox"/> Surge/Pump <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet): NM	
Pumping Rate (gallons per minute): ~0.25	Maximum Drawdown of Groundwater During Development (feet): NM	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): ~7.5	Development Duration (minutes): 30	Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: Dark brown, no odor		Water Appearance (color and odor) At End of Development: Clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS
1455 1525

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA			
Well Number: MW002R	Site Name: Imperial Cleaners	FDEP Facility I.D. Number: ERIC_5039	Well Install Date(s): 06-30-25
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)	Well Install Method: DPT Surface Casing Install Method: N/A
If AG, list feet of riser above land surface: N/A			
Borehole Depth (feet): 18	Well Depth (feet): 18	Borehole Diameter (inches): 3.25	Manhole Diameter (inches): 8
Riser Diameter and Material: 1" SCH 40 PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Well Pad Size: 2 feet by 2 feet
Screen Diameter and Material: 1" SCH 40 PVC		Screen Slot Size: 0.010"	Riser Length: 8 feet from 0 feet to 8 feet
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet
Filter Pack Material and Size: SAND, 20/30	Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Filter Pack Length: from 6 feet to 12 feet
Filter Pack Seal Material and Size: SAND, 50/65			Filter Pack Seal Length: from 4 feet to 6 feet
Surface Seal Material: Portland Cement Type 12			Surface Seal Length: from 0 feet to 4 feet

WELL DEVELOPMENT DATA			
Well Development Date: 06-30-25	Well Development Method (check one): <input type="checkbox"/> Surge/Pump <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet): NM	
Pumping Rate (gallons per minute): ~ 0.25	Maximum Drawdown of Groundwater During Development (feet): NM	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): 7.5	Development Duration (minutes): 30	Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: Brown, no odor		Water Appearance (color and odor) At End of Development: Clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS
1415 1445

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: MW004	Site Name: Imperial Cleaners	FDEP Facility I.D. Number: ERFC_5059	Well Install Date(s): —		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)		Well Install Method: —	
If AG, list feet of riser above land surface: N/A		Surface Casing Install Method: —			
Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material:	Riser/Screen Connections: <input type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: _____ feet from _____ feet to _____ feet			
Screen Diameter and Material:	Screen Slot Size:	Screen Length: _____ feet from _____ feet to _____ feet			
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet			
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet			
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet			
Filter Pack Material and Size:	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	Filter Pack Length: _____ feet from _____ feet to _____ feet			
Filter Pack Seal Material and Size:		Filter Pack Seal Length: _____ feet from _____ feet to _____ feet			
Surface Seal Material:		Surface Seal Length: _____ feet from _____ feet to _____ feet			

WELL DEVELOPMENT DATA			
Well Development Date: 06-30-25	Well Development Method (check one): <input type="checkbox"/> Surge/Pump <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	<input type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic	Depth to Groundwater (before developing in feet): NM	
Pumping Rate (gallons per minute): ~0-25	Maximum Drawdown of Groundwater During Development (feet): NM	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): ~7.5	Development Duration (minutes): 30	Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: Dark brown, no odor		Water Appearance (color and odor) At End of Development: Clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS
<p>1535 1605</p> <p style="text-align: center;"><u>Redevelopment</u></p>

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: MW008		Site Name: Prestige Cleaners		FDEP Facility I.D. Number: ERIC-5039	Well Install Date(s): —
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)		Well Install Method: —	
If AG, list feet of riser above land surface: N/A				Surface Casing Install Method: —	
Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size: _____ feet by _____ feet	
Riser Diameter and Material:		Riser/Screen Connections: <input type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: _____ feet from _____ feet to _____ feet		
Screen Diameter and Material:		Screen Slot Size:	Screen Length: _____ feet from _____ feet to _____ feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size:	Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No		Filter Pack Length: _____ feet from _____ feet to _____ feet		
Filter Pack Seal Material and Size:		Filter Pack Seal Length: _____ feet from _____ feet to _____ feet			
Surface Seal Material:		Surface Seal Length: _____ feet from _____ feet to _____ feet			

WELL DEVELOPMENT DATA			
Well Development Date: 06-30-25		Well Development Method (check one): <input type="checkbox"/> Surge/Pump <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet): NM	
Pumping Rate (gallons per minute): ~0.25	Maximum Drawdown of Groundwater During Development (feet): NM		Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): ~7.5	Development Duration (minutes): 30	Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: Brown, no odor		Water Appearance (color and odor) At End of Development: Clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>1615</p> <p>1645</p> </div> <div style="width: 60%; text-align: center;"> <p><u>Redevelopment</u></p> </div> </div>

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD4000)

Meter ID: YSI-556 mps SN- 08D100040 Project: Imperial Cleanups

- Notes:** (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	David Welch	7/17/25	1028	30.28	7.533	7.57	100.2	NA	NA	Ⓟ/F	L/Ⓟ
ICV			1032	30.39	7.520	7.50	99.1	NA	NA	Ⓟ/F	L/Ⓟ
CCV			1538	32.67	OR	6.96	92.7	NA	NA	P/F	L/Ⓟ
CCV										P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L. **Rapid-Pulse Sensors:** DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.
 Optical: DO gain range 0.85 to 1.15; DO charge N/A. **Steady-state & Galvanic Sensors:** DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ /cm	Meter Reading μ /cm	Pass / Fail	Lab / Field
Calibr.	David Welch	7/17/25	1036	24A120	1/26	1,000	1,000	Ⓟ/F	L/Ⓟ
ICV			1040				1,004	Ⓟ/F	L/Ⓟ
CCV			1542				1,011	Ⓟ/F	L/Ⓟ
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	David Welch	7/17/25	1044	23C210	12/25	7.0	7.00	-15.9	Ⓟ/F	L/Ⓟ
Calibr.			1048	23K333	1/26	4.0	4.00	155.8	Ⓟ/F	L/Ⓟ
Calibr.			1052	25C199	4/27	10.0	9.94	-168.3	Ⓟ/F	L/Ⓟ
ICV			1055	23C210	12/25	7.0	7.02	-15.8	Ⓟ/F	L/Ⓟ
CCV			1545	23C210	12/25	7.0	6.96	-13.6	Ⓟ/F	L/Ⓟ
CCV									P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ; mV pH 4 Range $+180 \pm 50$; mV pH 10 Range -180 ± 50 ;

COMMENTS:

**Turbidity Calibration Log (DEP SOPs FT1000 & FT1600)
Regional Operations Centers**

Meter ID: HACH 2100 Q Date of Last Calibration: 7/3/25 Project Name: Imperial Cleaners

Calibration

Sampler Name: David Welch Date: 7/7/25 Time: 1058 CTZ / CTZ (circle one)

Standard Value (Use Primary Formazin Standards)	Exp. Date	Lot #	Type of Information Displayed During Calibration? (circle one)	Value Displayed NTU	Calibration Pass / Fail (circle one)
20 NTU	6/26	A5066	Meter Reading	20.0	<input checked="" type="radio"/> P / <input type="radio"/> F
100 NTU	}	A5076	Meter Reading	98.9	<input checked="" type="radio"/> P / <input type="radio"/> F
800 NTU		A5062	Meter Reading	802	<input checked="" type="radio"/> P / <input type="radio"/> F
10 NTU		A5072	Meter Reading	10.2	<input checked="" type="radio"/> P / <input type="radio"/> F

Initial Calibration Verification (ICV) (Only perform ICV immediately after calibr. Do not use < 0.1 NTU standard for ICV.)

Sampler Name: David Welch Date: 7/7/25 Time: 1103 CTZ / CTZ (circle one)

Standard Value (Use A Primary Formazin Standard)	Exp. Date	Lot #	Meter Reading NTU	Pass / Fail (circle one)
10 NTU	6/26	A5072	10.1	<input checked="" type="radio"/> P / <input type="radio"/> F

Daily Continuing Calibration Verification (CCV) (required every day that meter is used)

Date	Time (24hr) CT-ET	Sampler Name	Standard Type	Standard Value NTU	Exp. Date	Lot #	Meter Reading NTU	Pass / Fail
7/7/25	1547	David Welch	Formazin	20	6/26	A5066	19.8	<input checked="" type="radio"/> P / <input type="radio"/> F
			Formazin					P / F
			Formazin					P / F
			Formazin					P / F
			Formazin					P / F
			Formazin					P / F
			Formazin					P / F
			Formazin					P / F
			Formazin					P / F

Comments:

*Acceptance Criteria: 0.1-10 NTU → ± 10 %; 11-40 NTU → ± 8 %; 41-100 NTU → ± 6.5 %; >100 NTU → ± 5 %;
Acceptable ranges for common standards: 20 NTU (18.4 - 21.6 NTU); 100 NTU (93.5 - 106.5 NTU); 800 NTU (760 - 840 NTU)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDEP – Former Imperial Cleaners (ERIC 5039)	SITE LOCATION: 901 West Fairbanks Ave., Winter Park, Florida
WELL NO: MW-001R	SAMPLE ID: MW-001R (07/07/25) DATE: 7/7/25

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 8 feet to 13 feet	STATIC DEPTH TO WATER (feet): 9.25	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = 13 feet - 9.25 feet X 0.04 gallons/foot = 0.35 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13	PURGING INITIATED AT: 1446	PURGING ENDED AT: 1520	TOTAL VOLUME PURGED (gallons): 1.7							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1454	0.40	0.40	0.05	9.47	5.04	27.8	182	2.07	345	Grey/Brown	None
1506	0.60	1.0		9.47	5.03	28.0	167	1.62	45		
1511	0.25	1.25		9.47	5.03	28.1	167	1.70	24		
1516	0.25	1.50		9.47	5.09	28.2	168	1.78	16	Clear	
1518	0.10	1.60		9.47	5.06	28.2	168	1.72	12		
1520	0.10	1.70		9.47	5.05	28.3	168	1.78	9		
							ORP: +86				
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dan Welch / Arcadis				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 1522		SAMPLING ENDED AT: 1530		
PUMP OR TUBING DEPTH IN WELL (feet): 13				TUBING MATERIAL CODE: HOPE				FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N)		FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> (N)				TUBING Y <input checked="" type="checkbox"/> (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> (N)				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
MW001R	3	CG	40 ml	HCl & wet ice	NA	NA	8260 VOHS		APP		~190	
<i>Dup</i> 1	2	PP	125ml	1 cc			PFAS					
	2	??	??	??			??					
REMARKS: Purge water to drum												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDEP – Former Imperial Cleaners (ERIC 5039)	SITE LOCATION: 901 West Fairbanks Ave., Winter Park, Florida
WELL NO: ML-002R	SAMPLE ID: ML-002R (07/07/25)
DATE: 7/7/25	

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet	STATIC DEPTH TO WATER (feet): 9.29	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
$= (18 \text{ feet} - 9.29 \text{ feet}) \times 0.04 \text{ gallons/foot} = 0.35 \text{ gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
$= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13	PURGING INITIATED AT: 1409	PURGING ENDED AT: 1428	TOTAL VOLUME PURGED (gallons): 0.95							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (S/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1417	0.40	0.40	0.05	9.50	5.63	27.7	316	0.77	19	Lt. Brown	None
1422	0.25	0.65	1	9.50	5.64	27.7	317	0.65	10.3	Clear	1
1425	0.15	0.80	1	9.50	5.60	27.7	315	0.63	8.6	1	1
1428	0.15	0.95	1	9.50	5.56	27.7	312	0.60	5.9	1	1
GRP: + 0.7											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: David Welch / Arcadis				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 1430		SAMPLING ENDED AT: 1436	
PUMP OR TUBING DEPTH IN WELL (feet): 13				TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ µm			
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				TUBING Y <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>		DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW002R	3	CG	40 ml	HCl & wet ice	NA	NA	8260 VOHs		APP	~190	
u	2	PP	125ml	ICE	u	u	PFAS		u	u	
REMARKS: Purge water to drum											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

62-160.800 F.A.C. **EQB (07/07/25) collected @ 1439** Revision Date: January 2017

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDEP - Former Imperial Cleaners (ERIC 5039)	SITE LOCATION: 901 West Fairbanks Ave., Winter Park, Florida
WELL NO: MW-005	SAMPLE ID: MW-005 (07/07/25)
DATE: 7/7/25	

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet	STATIC DEPTH TO WATER (feet): 8.83	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (18 \text{ feet} - 8.83 \text{ feet}) \times 0.04 \text{ gallons/foot} = 0.37 \text{ gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13	PURGING INITIATED AT: 1224	PURGING ENDED AT: 1243	TOTAL VOLUME PURGED (gallons): 0.95							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1231	0.40	0.40	0.05	9.15	3.92	28.6	185	0.32	29	Sl. Cloudy	None
1237	0.25	0.65		9.15	3.92	28.4	188	0.30	9.1	Clear	
1240	0.15	0.80		9.15	3.91	28.3	190	0.31	6.5		
1243	0.15	0.95		9.15	3.94	28.2	193	0.32	9.8		
ORP: +89											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dad Wehl / Arcadis				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 1245		SAMPLING ENDED AT: 1249	
PUMP OR TUBING DEPTH IN WELL (feet): 13				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				TUBING Y <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>				DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW	3	GG	40 ml	HCl & wet ice	NA	NA	8260 VOHs		APP		
MW-005	2	PP	125 ml	ICC	-	NA	PFAS		APP	~190	
REMARKS: Purge water to drum											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; RFPF = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FDEP – Former Imperial Cleaners (ERIC 5039)	SITE LOCATION: 901 West Fairbanks Ave., Winter Park, Florida
WELL NO: MLW-008	SAMPLE ID: MLW-008 (07/07/25)
DATE: 7/7/25	

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 28 feet to 33 feet	STATIC DEPTH TO WATER (feet): 8.77	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (feet - feet) X gallons/foot = gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= 0 gallons + (0.0014 gallons/foot X 0.40 feet) + 0.1 gallons = 0.16 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30	PURGING INITIATED AT: 1140	PURGING ENDED AT: 1207	TOTAL VOLUME PURGED (gallons): 1.35							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1148	0.40	0.40	0.05	9.16	4.31	27.2	256	0.46	126	Green	None
1153	0.25	0.65		9.16	4.29	27.2	253	0.42	54		
1203	0.50	1.15		9.10	4.23	27.1	249	0.38	469		
1205	0.10	1.25		9.10	4.23	27.1	247	0.36	472		
1207	0.10	1.35		9.10	4.23	27.0	247	0.36	460		
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dave Welch /Arcadis				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 1209		SAMPLING ENDED AT: 1213	
PUMP OR TUBING DEPTH IN WELL (feet): 30				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y <input type="checkbox"/> N <input checked="" type="checkbox"/>				TUBING Y <input type="checkbox"/> N (replaced) <input checked="" type="checkbox"/>				DUPLICATE: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MLW-008	2	PP	125mL	ICI	-	-	8260 VOHs		APP		
							PEAS		APP		
									~190		
REMARKS: Purge water to drum											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Appendix C

Laboratory Analytical Reports

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hanna
Arcadis U.S., Inc.
4300 West Cypress Street
Suite 450
Tampa, Florida 33607

Generated 7/10/2025 10:36:28 AM

JOB DESCRIPTION

Imperial Cleaners

JOB NUMBER

670-65967-1

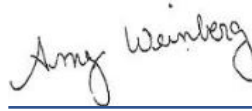
Eurofins Orlando

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	14
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Imperial Cleaners

Job ID: 670-65967-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J	Estimated value; value may not be accurate.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Arcadis U.S., Inc.
Project: Imperial Cleaners

Job ID: 670-65967-1

Job ID: 670-65967-1

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Job Narrative 670-65967-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 7/7/2025 4:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 670-162585 recovered above the upper control limit for Chloromethane and Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCVIS 670-162585/4).

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 670-162585 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Imperial Cleaners

Job ID: 670-65967-1

Client Sample ID: MW-001R (07/07/25)

Lab Sample ID: 670-65967-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.8		1.0	0.76	ug/L	1		8260D	Total/NA

Client Sample ID: MW-002R (07/07/25)

Lab Sample ID: 670-65967-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	7.0		1.0	0.76	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Imperial Cleaners

Job ID: 670-65967-1

Client Sample ID: MW-001R (07/07/25)

Lab Sample ID: 670-65967-1

Date Collected: 07/07/25 15:22

Matrix: Water

Date Received: 07/07/25 16:35

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.73	U	1.0	0.73	ug/L			07/09/25 16:06	1
1,1,1,2-Tetrachloroethane	0.54	U	1.0	0.54	ug/L			07/09/25 16:06	1
1,1,2-Trichloroethane	0.71	U	2.0	0.71	ug/L			07/09/25 16:06	1
1,1-Dichloroethane	0.62	U	1.0	0.62	ug/L			07/09/25 16:06	1
1,1-Dichloroethene	0.75	U	1.0	0.75	ug/L			07/09/25 16:06	1
1,2-Dichlorobenzene	0.68	U	1.0	0.68	ug/L			07/09/25 16:06	1
1,2-Dichloroethane	0.63	U	1.0	0.63	ug/L			07/09/25 16:06	1
1,2-Dichloropropane	0.75	U	1.0	0.75	ug/L			07/09/25 16:06	1
1,3-Dichlorobenzene	0.76	U	1.0	0.76	ug/L			07/09/25 16:06	1
1,4-Dichlorobenzene	0.71	U	1.0	0.71	ug/L			07/09/25 16:06	1
Bromoform	0.65	U	1.0	0.65	ug/L			07/09/25 16:06	1
Bromomethane	0.95	U	2.0	0.95	ug/L			07/09/25 16:06	1
Carbon tetrachloride	0.77	U	1.0	0.77	ug/L			07/09/25 16:06	1
Chlorobenzene	0.69	U	1.0	0.69	ug/L			07/09/25 16:06	1
Chlorodibromomethane	0.50	U	1.0	0.50	ug/L			07/09/25 16:06	1
Chloroethane	0.98	U	2.0	0.98	ug/L			07/09/25 16:06	1
Chloroform	0.80	U	5.0	0.80	ug/L			07/09/25 16:06	1
Chloromethane	0.82	U	2.0	0.82	ug/L			07/09/25 16:06	1
cis-1,2-Dichloroethene	0.53	U	1.0	0.53	ug/L			07/09/25 16:06	1
cis-1,3-Dichloropropene	0.59	U	1.0	0.59	ug/L			07/09/25 16:06	1
Dichlorobromomethane	0.52	U	1.0	0.52	ug/L			07/09/25 16:06	1
Dichlorodifluoromethane	0.61	U	1.0	0.61	ug/L			07/09/25 16:06	1
Methylene Chloride	3.5	U	10	3.5	ug/L			07/09/25 16:06	1
Tetrachloroethene	2.8		1.0	0.76	ug/L			07/09/25 16:06	1
trans-1,2-Dichloroethene	0.73	U	1.0	0.73	ug/L			07/09/25 16:06	1
trans-1,3-Dichloropropene	0.73	U	1.0	0.73	ug/L			07/09/25 16:06	1
Trichloroethene	0.74	U	1.0	0.74	ug/L			07/09/25 16:06	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/09/25 16:06	1
Vinyl chloride	0.51	U	1.0	0.51	ug/L			07/09/25 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		41 - 142		07/09/25 16:06	1
Toluene-d8 (Surr)	98		40 - 146		07/09/25 16:06	1
Dibromofluoromethane (Surr)	105		53 - 146		07/09/25 16:06	1

Client Sample ID: MW-002R (07/07/25)

Lab Sample ID: 670-65967-2

Date Collected: 07/07/25 14:30

Matrix: Water

Date Received: 07/07/25 16:35

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.73	U	1.0	0.73	ug/L			07/09/25 16:25	1
1,1,1,2-Tetrachloroethane	0.54	U	1.0	0.54	ug/L			07/09/25 16:25	1
1,1,2-Trichloroethane	0.71	U	2.0	0.71	ug/L			07/09/25 16:25	1
1,1-Dichloroethane	0.62	U	1.0	0.62	ug/L			07/09/25 16:25	1
1,1-Dichloroethene	0.75	U	1.0	0.75	ug/L			07/09/25 16:25	1
1,2-Dichlorobenzene	0.68	U	1.0	0.68	ug/L			07/09/25 16:25	1
1,2-Dichloroethane	0.63	U	1.0	0.63	ug/L			07/09/25 16:25	1
1,2-Dichloropropane	0.75	U	1.0	0.75	ug/L			07/09/25 16:25	1
1,3-Dichlorobenzene	0.76	U	1.0	0.76	ug/L			07/09/25 16:25	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Imperial Cleaners

Job ID: 670-65967-1

Client Sample ID: MW-002R (07/07/25)

Lab Sample ID: 670-65967-2

Date Collected: 07/07/25 14:30

Matrix: Water

Date Received: 07/07/25 16:35

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.71	U	1.0	0.71	ug/L			07/09/25 16:25	1
Bromoform	0.65	U	1.0	0.65	ug/L			07/09/25 16:25	1
Bromomethane	0.95	U	2.0	0.95	ug/L			07/09/25 16:25	1
Carbon tetrachloride	0.77	U	1.0	0.77	ug/L			07/09/25 16:25	1
Chlorobenzene	0.69	U	1.0	0.69	ug/L			07/09/25 16:25	1
Chlorodibromomethane	0.50	U	1.0	0.50	ug/L			07/09/25 16:25	1
Chloroethane	0.98	U	2.0	0.98	ug/L			07/09/25 16:25	1
Chloroform	0.80	U	5.0	0.80	ug/L			07/09/25 16:25	1
Chloromethane	0.82	U	2.0	0.82	ug/L			07/09/25 16:25	1
cis-1,2-Dichloroethene	0.53	U	1.0	0.53	ug/L			07/09/25 16:25	1
cis-1,3-Dichloropropene	0.59	U	1.0	0.59	ug/L			07/09/25 16:25	1
Dichlorobromomethane	0.52	U	1.0	0.52	ug/L			07/09/25 16:25	1
Dichlorodifluoromethane	0.61	U	1.0	0.61	ug/L			07/09/25 16:25	1
Methylene Chloride	3.5	U	10	3.5	ug/L			07/09/25 16:25	1
Tetrachloroethene	7.0		1.0	0.76	ug/L			07/09/25 16:25	1
trans-1,2-Dichloroethene	0.73	U	1.0	0.73	ug/L			07/09/25 16:25	1
trans-1,3-Dichloropropene	0.73	U	1.0	0.73	ug/L			07/09/25 16:25	1
Trichloroethene	0.74	U	1.0	0.74	ug/L			07/09/25 16:25	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/09/25 16:25	1
Vinyl chloride	0.51	U	1.0	0.51	ug/L			07/09/25 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		41 - 142		07/09/25 16:25	1
Toluene-d8 (Surr)	97		40 - 146		07/09/25 16:25	1
Dibromofluoromethane (Surr)	102		53 - 146		07/09/25 16:25	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Imperial Cleaners

Job ID: 670-65967-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	TOL	DBFM
		(41-142)	(40-146)	(53-146)
670-65793-D-1 MS	Matrix Spike	95	96	97
670-65793-D-1 MSD	Matrix Spike Duplicate	97	98	100
670-65967-1	MW-001R (07/07/25)	98	98	105
670-65967-2	MW-002R (07/07/25)	99	97	102
LCS 670-162585/5	Lab Control Sample	97	98	99
MB 670-162585/8	Method Blank	103	96	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Imperial Cleaners

Job ID: 670-65967-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 670-162585/8
Matrix: Water
Analysis Batch: 162585

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	0.73	U	1.0	0.73	ug/L			07/09/25 11:30	1
1,1,2,2-Tetrachloroethane	0.54	U	1.0	0.54	ug/L			07/09/25 11:30	1
1,1,2-Trichloroethane	0.71	U	2.0	0.71	ug/L			07/09/25 11:30	1
1,1-Dichloroethane	0.62	U	1.0	0.62	ug/L			07/09/25 11:30	1
1,1-Dichloroethene	0.75	U	1.0	0.75	ug/L			07/09/25 11:30	1
1,2-Dichlorobenzene	0.68	U	1.0	0.68	ug/L			07/09/25 11:30	1
1,2-Dichloroethane	0.63	U	1.0	0.63	ug/L			07/09/25 11:30	1
1,2-Dichloropropane	0.75	U	1.0	0.75	ug/L			07/09/25 11:30	1
1,3-Dichlorobenzene	0.76	U	1.0	0.76	ug/L			07/09/25 11:30	1
1,4-Dichlorobenzene	0.71	U	1.0	0.71	ug/L			07/09/25 11:30	1
Bromoform	0.65	U	1.0	0.65	ug/L			07/09/25 11:30	1
Bromomethane	0.95	U	2.0	0.95	ug/L			07/09/25 11:30	1
Carbon tetrachloride	0.77	U	1.0	0.77	ug/L			07/09/25 11:30	1
Chlorobenzene	0.69	U	1.0	0.69	ug/L			07/09/25 11:30	1
Chlorodibromomethane	0.50	U	1.0	0.50	ug/L			07/09/25 11:30	1
Chloroethane	0.98	U	2.0	0.98	ug/L			07/09/25 11:30	1
Chloroform	0.80	U	5.0	0.80	ug/L			07/09/25 11:30	1
Chloromethane	0.82	U	2.0	0.82	ug/L			07/09/25 11:30	1
cis-1,2-Dichloroethene	0.53	U	1.0	0.53	ug/L			07/09/25 11:30	1
cis-1,3-Dichloropropene	0.59	U	1.0	0.59	ug/L			07/09/25 11:30	1
Dichlorobromomethane	0.52	U	1.0	0.52	ug/L			07/09/25 11:30	1
Dichlorodifluoromethane	0.61	U	1.0	0.61	ug/L			07/09/25 11:30	1
Methylene Chloride	3.5	U	10	3.5	ug/L			07/09/25 11:30	1
Tetrachloroethene	0.76	U	1.0	0.76	ug/L			07/09/25 11:30	1
trans-1,2-Dichloroethene	0.73	U	1.0	0.73	ug/L			07/09/25 11:30	1
trans-1,3-Dichloropropene	0.73	U	1.0	0.73	ug/L			07/09/25 11:30	1
Trichloroethene	0.74	U	1.0	0.74	ug/L			07/09/25 11:30	1
Trichlorofluoromethane	0.45	U	1.0	0.45	ug/L			07/09/25 11:30	1
Vinyl chloride	0.51	U	1.0	0.51	ug/L			07/09/25 11:30	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	103		41 - 142		07/09/25 11:30	1
Toluene-d8 (Surr)	96		40 - 146		07/09/25 11:30	1
Dibromofluoromethane (Surr)	104		53 - 146		07/09/25 11:30	1

Lab Sample ID: LCS 670-162585/5
Matrix: Water
Analysis Batch: 162585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2,2-Tetrachloroethane	5.00	4.16		ug/L		83	60 - 139
1,1,2-Trichloroethane	5.00	4.67		ug/L		93	57 - 141
1,1-Dichloroethane	5.00	4.73		ug/L		95	57 - 142
1,1-Dichloroethene	5.00	4.97		ug/L		99	47 - 139
1,2-Dichlorobenzene	5.00	4.77		ug/L		95	63 - 131
1,2-Dichloroethane	5.00	4.68		ug/L		94	50 - 156
1,2-Dichloropropane	5.00	4.86		ug/L		97	61 - 133

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Imperial Cleaners

Job ID: 670-65967-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 670-162585/5
Matrix: Water
Analysis Batch: 162585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	5.00	5.16		ug/L		103	66 - 129
1,4-Dichlorobenzene	5.00	5.08		ug/L		102	65 - 133
Bromoform	5.00	3.80		ug/L		76	46 - 148
Bromomethane	5.00	3.76		ug/L		75	10 - 173
Carbon tetrachloride	5.00	4.44		ug/L		89	54 - 156
Chlorobenzene	5.00	4.73		ug/L		95	51 - 139
Chlorodibromomethane	5.00	4.33		ug/L		87	50 - 140
Chloroethane	5.00	5.45		ug/L		109	27 - 180
Chloroform	5.00	4.49	I	ug/L		90	58 - 139
Chloromethane	5.00	7.14		ug/L		143	33 - 154
cis-1,2-Dichloroethene	5.00	4.70		ug/L		94	56 - 128
cis-1,3-Dichloropropene	5.00	3.86		ug/L		77	64 - 128
Dichlorobromomethane	5.00	4.53		ug/L		91	58 - 135
Dichlorodifluoromethane	5.00	8.32		ug/L		166	10 - 180
Methylene Chloride	5.00	4.70	I	ug/L		94	43 - 142
Tetrachloroethene	5.00	5.12		ug/L		102	60 - 147
trans-1,2-Dichloroethene	5.00	5.01		ug/L		100	54 - 134
trans-1,3-Dichloropropene	5.00	3.96		ug/L		79	65 - 149
Trichloroethene	5.00	4.68		ug/L		94	62 - 135
Trichlorofluoromethane	5.00	5.13		ug/L		103	56 - 155
Vinyl chloride	5.00	6.29		ug/L		126	20 - 167

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		41 - 142
Toluene-d8 (Surr)	98		40 - 146
Dibromofluoromethane (Surr)	99		53 - 146

Lab Sample ID: 670-65793-D-1 MS
Matrix: Water
Analysis Batch: 162585

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.73	U	20.0	19.9		ug/L		100	57 - 148
1,1,2,2-Tetrachloroethane	0.54	U	20.0	17.7		ug/L		89	60 - 139
1,1,2-Trichloroethane	0.71	U	20.0	18.6		ug/L		93	57 - 141
1,1-Dichloroethane	0.62	U	20.0	20.2		ug/L		101	57 - 142
1,1-Dichloroethene	0.75	U	20.0	22.2		ug/L		111	49 - 139
1,2-Dichlorobenzene	0.68	U	20.0	18.4		ug/L		92	63 - 131
1,2-Dichloroethane	0.63	U	20.0	18.5		ug/L		93	50 - 156
1,2-Dichloropropane	0.75	U	20.0	21.3		ug/L		106	61 - 133
1,3-Dichlorobenzene	0.76	U	20.0	19.9		ug/L		99	66 - 129
1,4-Dichlorobenzene	0.71	U	20.0	20.3		ug/L		101	65 - 133
Bromoform	0.65	U	20.0	16.0		ug/L		80	46 - 148
Bromomethane	0.95	U	20.0	17.1		ug/L		85	10 - 173
Carbon tetrachloride	0.77	U	20.0	20.5		ug/L		103	54 - 156
Chlorobenzene	0.69	U	20.0	19.5		ug/L		97	51 - 139
Chlorodibromomethane	5.1		20.0	21.8		ug/L		84	50 - 150
Chloroethane	0.98	U	20.0	23.6		ug/L		118	27 - 180

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Imperial Cleaners

Job ID: 670-65967-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-65793-D-1 MS

Matrix: Water

Analysis Batch: 162585

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
Chloroform	21		20.0	38.5		ug/L		88	59 - 139	
Chloromethane	0.82	U	20.0	25.4		ug/L		127	33 - 154	
cis-1,2-Dichloroethene	0.53	U	20.0	20.0		ug/L		100	56 - 128	
cis-1,3-Dichloropropene	0.59	U	20.0	17.2		ug/L		86	64 - 128	
Dichlorobromomethane	11		20.0	30.3		ug/L		96	58 - 135	
Dichlorodifluoromethane	0.61	U J	20.0	37.4	J	ug/L		187	10 - 180	
Methylene Chloride	3.5	U	20.0	18.8		ug/L		94	43 - 142	
Tetrachloroethene	0.76	U	20.0	22.0		ug/L		110	60 - 147	
trans-1,2-Dichloroethene	0.73	U	20.0	20.1		ug/L		101	54 - 134	
trans-1,3-Dichloropropene	0.73	U	20.0	16.2		ug/L		81	65 - 149	
Trichloroethene	0.74	U	20.0	19.7		ug/L		98	62 - 135	
Trichlorofluoromethane	0.45	U	20.0	24.5		ug/L		123	56 - 155	
Vinyl chloride	0.51	U	20.0	25.5		ug/L		128	20 - 167	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	95		41 - 142							
Toluene-d8 (Surr)	96		40 - 146							
Dibromofluoromethane (Surr)	97		53 - 146							

Lab Sample ID: 670-65793-D-1 MSD

Matrix: Water

Analysis Batch: 162585

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
1,1,1-Trichloroethane	0.73	U	20.0	19.7		ug/L		98	57 - 148	1	25	
1,1,2,2-Tetrachloroethane	0.54	U	20.0	18.0		ug/L		90	60 - 139	2	17	
1,1,2-Trichloroethane	0.71	U	20.0	18.8		ug/L		94	57 - 141	1	16	
1,1-Dichloroethane	0.62	U	20.0	20.3		ug/L		101	57 - 142	0	24	
1,1-Dichloroethene	0.75	U	20.0	21.9		ug/L		110	49 - 139	1	16	
1,2-Dichlorobenzene	0.68	U	20.0	19.0		ug/L		95	63 - 131	3	25	
1,2-Dichloroethane	0.63	U	20.0	18.7		ug/L		94	50 - 156	1	18	
1,2-Dichloropropane	0.75	U	20.0	22.0		ug/L		110	61 - 133	3	26	
1,3-Dichlorobenzene	0.76	U	20.0	18.8		ug/L		94	66 - 129	5	23	
1,4-Dichlorobenzene	0.71	U	20.0	19.8		ug/L		99	65 - 133	2	23	
Bromoform	0.65	U	20.0	16.1		ug/L		80	46 - 148	0	18	
Bromomethane	0.95	U	20.0	16.9		ug/L		84	10 - 173	1	29	
Carbon tetrachloride	0.77	U	20.0	20.4		ug/L		102	54 - 156	1	27	
Chlorobenzene	0.69	U	20.0	19.3		ug/L		97	51 - 139	1	13	
Chlorodibromomethane	5.1		20.0	22.5		ug/L		87	50 - 150	3	18	
Chloroethane	0.98	U	20.0	24.9		ug/L		125	27 - 180	5	22	
Chloroform	21		20.0	39.1		ug/L		91	59 - 139	1	17	
Chloromethane	0.82	U	20.0	26.4		ug/L		132	33 - 154	4	31	
cis-1,2-Dichloroethene	0.53	U	20.0	19.8		ug/L		99	56 - 128	1	17	
cis-1,3-Dichloropropene	0.59	U	20.0	16.8		ug/L		84	64 - 128	2	20	
Dichlorobromomethane	11		20.0	29.6		ug/L		92	58 - 135	2	19	
Dichlorodifluoromethane	0.61	U J	20.0	36.9	J	ug/L		185	10 - 180	1	26	
Methylene Chloride	3.5	U	20.0	19.6		ug/L		98	43 - 142	4	23	
Tetrachloroethene	0.76	U	20.0	21.5		ug/L		107	60 - 147	2	21	

Eurofins Orlando

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Imperial Cleaners

Job ID: 670-65967-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-65793-D-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 162585

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.73	U	20.0	19.0		ug/L		95	54 - 134	6	20
trans-1,3-Dichloropropene	0.73	U	20.0	16.6		ug/L		83	65 - 149	3	17
Trichloroethene	0.74	U	20.0	20.0		ug/L		100	62 - 135	1	20
Trichlorofluoromethane	0.45	U	20.0	23.7		ug/L		119	56 - 155	3	22
Vinyl chloride	0.51	U	20.0	24.3		ug/L		121	20 - 167	5	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		41 - 142
Toluene-d8 (Surr)	98		40 - 146
Dibromofluoromethane (Surr)	100		53 - 146

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Imperial Cleaners

Job ID: 670-65967-1

GC/MS VOA

Analysis Batch: 162585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-65967-1	MW-001R (07/07/25)	Total/NA	Water	8260D	
670-65967-2	MW-002R (07/07/25)	Total/NA	Water	8260D	
MB 670-162585/8	Method Blank	Total/NA	Water	8260D	
LCS 670-162585/5	Lab Control Sample	Total/NA	Water	8260D	
670-65793-D-1 MS	Matrix Spike	Total/NA	Water	8260D	
670-65793-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Imperial Cleaners

Job ID: 670-65967-1

Client Sample ID: MW-001R (07/07/25)

Lab Sample ID: 670-65967-1

Date Collected: 07/07/25 15:22

Matrix: Water

Date Received: 07/07/25 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	162585	KG	EET ORL	07/09/25 16:06

Client Sample ID: MW-002R (07/07/25)

Lab Sample ID: 670-65967-2

Date Collected: 07/07/25 14:30

Matrix: Water

Date Received: 07/07/25 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	162585	KG	EET ORL	07/09/25 16:25

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984



Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Imperial Cleaners

Job ID: 670-65967-1

Laboratory: Eurofins Orlando

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E83018	06-30-26
Georgia	State	E83018 (FL)	02-20-26
Louisiana (DW)	State	LA039	12-31-25
North Carolina (DW)	State	12712	07-31-25
North Carolina (WW/SW)	State	699	12-31-25
Puerto Rico	State	FL00091	01-31-26
Tennessee	State	TN04930	06-30-26
Texas	NELAP	T104704571	03-01-26
USDA	US Federal Programs	P525-23-138-94710	05-18-26

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Imperial Cleaners

Job ID: 670-65967-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET ORL
5030C	Purge and Trap	SW846	EET ORL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984



Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Imperial Cleaners

Job ID: 670-65967-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
670-65967-1	MW-001R (07/07/25)	Water	07/07/25 15:22	07/07/25 16:35
670-65967-2	MW-002R (07/07/25)	Water	07/07/25 14:30	07/07/25 16:35

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Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 670-65967-1

Login Number: 65967

List Source: Eurofins Orlando

List Number: 1

Creator: Gemeinhardt, Alexandria

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Chemical Analysis Report

DIV-WASTE-2025-07-09-02

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

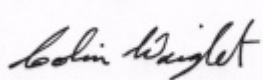
Event Description: **Imperial Cleaners ERIC_5039**
Request ID: **RQ-2024-12-16-40**
Customer: **DIV-WASTE**
Project ID: **PFAS-PILOT**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd.
Tallahassee, FL 32399-2400
Attn: Division of Waste Management

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Marek Topolski, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 17-JUL-2025 11:19



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;

MS – Recovery for the batch matrix spike (MS) was outside existing control limits;

CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;

SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;

RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;

RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;

SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

A - Value reported is the mean of two or more determinations.

B - Results based on colony counts outside the acceptable range.

I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J - Estimated value and/or the analysis did not meet established quality control criteria.

K - Actual value is known to be less than value given.

L - Actual value is known to be greater than value given.

N - Presumptive evidence of presence of material.

O - Sampled, but analysis lost or not performed.

Q - Sample held beyond normal holding time.

T - Value reported is less than the criterion of detection.

U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.

V - Analyte was detected in both sample and method blank.

X - Too few individuals to calculate SCI value.

Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Imperial Cleaners

Collection Date/Time: 07/07/2025 15:22

Field ID: MW-001R (07/07/25)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2574140	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)	5.4		ng/L	P462507	
		Perfluorobutanoic acid (PFBA)	8.3	I	ng/L	P462507	
		Perfluorodecanoic acid (PFDA)	3.7	U	ng/L	P462507	
		Perfluorododecanoic acid (PFDoA)	1.9	U	ng/L	P462507	
		Perfluoroheptanoic acid (PFHpA)	17		ng/L	P462507	
		Perfluorohexanesulfonic acid (PFHxS)	2.8	I	ng/L	P462507	
		Perfluorohexanoic acid (PFHxA)	7.3	I	ng/L	P462507	
		Perfluorononanoic acid (PFNA)	1.9	U	ng/L	P462507	
		Perfluorooctanoic acid (PFOA)	39		ng/L	P462507	
		Perfluorooctanesulfonic acid (PFOS)	18		ng/L	P462507	
		Perfluoropentanoic acid (PFPeA)	7.1	I	ng/L	P462507	
		Perfluorotetradecanoic acid (PFTeA)	1.9	U	ng/L	P462507	
		Perfluorotridecanoic acid (PFTriA)	1.9	U	ng/L	P462507	
		Perfluoroundecanoic acid (PFUnA)	1.9	U	ng/L	P462507	
		Perfluoropentanesulfonic acid (PFPeS)	0.46	I	ng/L	P462507	
		Perfluoroheptanesulfonic acid (PFHpS)	0.75	U	ng/L	P462507	
		Perfluorononanesulfonic acid (PFNS)	0.37	U	ng/L	P462507	
		Perfluorodecanesulfonic acid (PFDS)	0.37	U	ng/L	P462507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.37	U	ng/L	P462507	
		Perfluoro-1-butane sulfonamide (FBSA)	0.75	U	ng/L	P462507	
		Perfluoro-1-hexane sulfonamide (FHxSA)	0.75	U	ng/L	P462507	
		Perfluoro-1-octane sulfonamide (FOSA)	0.63	I	ng/L	P462507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.9	U	ng/L	P462507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.9	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	1.9	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.5	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	1.9	U	ng/L	P462507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.75	U	ng/L	P462507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.75	U	ng/L	P462507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)	3.7	U	ng/L	P462507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.75	U	ng/L	P462507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)	0.75	U	ng/L	P462507	
		Perfluoro-3-methoxypropanoic acid (PFMPA)	0.75	U	ng/L	P462507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.75	U	ng/L	P462507	
		Perfluoropropanesulfonic acid (PFPrS)	3.7	U	ng/L	P462507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	7.5	U	ng/L	P462507	

Field ID: MW-001R (07/07/25)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2574140	DEP SOP: LC-001-3	2H,2H,3H,3H-perfluorooctanoic acid (5:3 FTCA)	7.5	U	ng/L	P462507	
		2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA)	7.5	U	ng/L	P462507	
		2H,2H,3H,3H-perfluorohexanoic acid (3:3 FTCA)	7.5	U	ng/L	P462507	

Sample Location: Imperial Cleaners

Collection Date/Time: 07/07/2025 15:22

Field ID: MW-001R-DUP (07/07/25)

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2574141	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)	5.0		ng/L	P462507	
		Perfluorobutanoic acid (PFBA)	7.7	I	ng/L	P462507	
		Perfluorodecanoic acid (PFDA)	3.7	U	ng/L	P462507	
		Perfluorododecanoic acid (PFDoA)	1.9	U	ng/L	P462507	
		Perfluoroheptanoic acid (PFHpA)	16		ng/L	P462507	
		Perfluorohexanesulfonic acid (PFHxS)	2.6	I	ng/L	P462507	
		Perfluorohexanoic acid (PFHxA)	6.8	I	ng/L	P462507	
		Perfluorononanoic acid (PFNA)	1.9	U	ng/L	P462507	
		Perfluorooctanoic acid (PFOA)	37		ng/L	P462507	
		Perfluorooctanesulfonic acid (PFOS)	17		ng/L	P462507	
		Perfluoropentanoic acid (PFPeA)	7.3	I	ng/L	P462507	
		Perfluorotetradecanoic acid (PFTeA)	1.9	U	ng/L	P462507	
		Perfluorotridecanoic acid (PFTriA)	1.9	U	ng/L	P462507	
		Perfluoroundecanoic acid (PFUnA)	1.9	U	ng/L	P462507	
		Perfluoropentanesulfonic acid (PFPeS)	0.42	I	ng/L	P462507	
		Perfluoroheptanesulfonic acid (PFHpS)	0.75	U	ng/L	P462507	
		Perfluorononanesulfonic acid (PFNS)	0.37	U	ng/L	P462507	
		Perfluorodecanesulfonic acid (PFDS)	0.37	U	ng/L	P462507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.37	U	ng/L	P462507	
		Perfluoro-1-butane sulfonamide (FBSA)	0.75	U	ng/L	P462507	
		Perfluoro-1-hexane sulfonamide (FHxSA)	0.75	U	ng/L	P462507	
		Perfluoro-1-octane sulfonamide (FOSA)	0.62	I	ng/L	P462507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.9	U	ng/L	P462507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.9	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	1.9	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.5	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	1.9	U	ng/L	P462507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.75	U	ng/L	P462507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.75	U	ng/L	P462507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)	3.7	U	ng/L	P462507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.75	U	ng/L	P462507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)	0.75	U	ng/L	P462507	
		Perfluoro-3-methoxypropanoic acid (PFMPA)	0.75	U	ng/L	P462507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.75	U	ng/L	P462507	
		Perfluoropropanesulfonic acid (PFPrS)	3.7	U	ng/L	P462507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	7.5	U	ng/L	P462507	

Field ID: MW-001R-DUP (07/07/25)

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2574141	DEP SOP: LC-001-3	2H,2H,3H,3H-perfluorooctanoic acid (5:3 FTCA)	7.5	U	ng/L	P462507	
		2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA)	7.5	U	ng/L	P462507	
		2H,2H,3H,3H-perfluorohexanoic acid (3:3 FTCA)	7.5	U	ng/L	P462507	

Sample Location: Imperial Cleaners

Collection Date/Time: 07/07/2025 14:30

Field ID: MW-002R (07/07/25)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2574142	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)	6.5		ng/L	P462507	
		Perfluorobutanoic acid (PFBA)	22		ng/L	P462507	
		Perfluorodecanoic acid (PFDA)	5.2	I	ng/L	P462507	
		Perfluorododecanoic acid (PFDoA)	1.9	U	ng/L	P462507	
		Perfluoroheptanoic acid (PFHpA)	120		ng/L	P462507	
		Perfluorohexanesulfonic acid (PFHxS)	7.9		ng/L	P462507	
		Perfluorohexanoic acid (PFHxA)	32		ng/L	P462507	
		Perfluorononanoic acid (PFNA)	27		ng/L	P462507	
		Perfluorooctanoic acid (PFOA)	140		ng/L	P462507	
		Perfluorooctanesulfonic acid (PFOS)	110		ng/L	P462507	
		Perfluoropentanoic acid (PFPeA)	28		ng/L	P462507	
		Perfluorotetradecanoic acid (PFTeA)	1.9	U	ng/L	P462507	
		Perfluorotridecanoic acid (PFTriA)	1.9	U	ng/L	P462507	
		Perfluoroundecanoic acid (PFUnA)	1.9	U	ng/L	P462507	
		Perfluoropentanesulfonic acid (PFPeS)	0.99	I	ng/L	P462507	
		Perfluoroheptanesulfonic acid (PFHpS)	2.0	I	ng/L	P462507	
		Perfluorononanesulfonic acid (PFNS)	0.37	U	ng/L	P462507	
		Perfluorodecanesulfonic acid (PFDS)	0.37	U	ng/L	P462507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.37	U	ng/L	P462507	
		Perfluoro-1-butane sulfonamide (FBSA)	0.75	U	ng/L	P462507	
		Perfluoro-1-hexane sulfonamide (FHxSA)	0.75	U	ng/L	P462507	
		Perfluoro-1-octane sulfonamide (FOSA)	1.5		ng/L	P462507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.9	U	ng/L	P462507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.9	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	1.9	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.5	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	1.9	U	ng/L	P462507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.75	U	ng/L	P462507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.75	U	ng/L	P462507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)	3.7	U	ng/L	P462507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.75	U	ng/L	P462507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)	0.75	U	ng/L	P462507	
		Perfluoro-3-methoxypropanoic acid (PFMPA)	0.75	U	ng/L	P462507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.75	U	ng/L	P462507	
		Perfluoropropanesulfonic acid (PFPrS)	3.7	U	ng/L	P462507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	7.5	U	ng/L	P462507	

Field ID: MW-002R (07/07/25)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2574142	DEP SOP: LC-001-3	2H,2H,3H,3H-perfluorooctanoic acid (5:3 FTCA)	7.5	U	ng/L	P462507	
		2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA)	7.5	U	ng/L	P462507	
		2H,2H,3H,3H-perfluorohexanoic acid (3:3 FTCA)	7.5	U	ng/L	P462507	

Sample Location: Imperial Cleaners

Collection Date/Time: 07/07/2025 13:54

Field ID: MW-004 (07/07/25)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2574143	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)	3.9		ng/L	P462507	
		Perfluorobutanoic acid (PFBA)	18		ng/L	P462507	
		Perfluorodecanoic acid (PFDA)	3.7	U	ng/L	P462507	
		Perfluorododecanoic acid (PFDoA)	1.9	U	ng/L	P462507	
		Perfluoroheptanoic acid (PFHpA)	22		ng/L	P462507	
		Perfluorohexanesulfonic acid (PFHxS)	7.6		ng/L	P462507	
		Perfluorohexanoic acid (PFHxA)	25		ng/L	P462507	
		Perfluorononanoic acid (PFNA)	7.4	I	ng/L	P462507	
		Perfluorooctanoic acid (PFOA)	88		ng/L	P462507	
		Perfluorooctanesulfonic acid (PFOS)	300		ng/L	P462507	
		Perfluoropentanoic acid (PFPeA)	36		ng/L	P462507	
		Perfluorotetradecanoic acid (PFTeA)	1.9	U	ng/L	P462507	
		Perfluorotridecanoic acid (PFTriA)	1.9	U	ng/L	P462507	
		Perfluoroundecanoic acid (PFUnA)	1.9	U	ng/L	P462507	
		Perfluoropentanesulfonic acid (PFPeS)	0.80	I	ng/L	P462507	
		Perfluoroheptanesulfonic acid (PFHpS)	3.8		ng/L	P462507	
		Perfluorononanesulfonic acid (PFNS)	0.37	U	ng/L	P462507	
		Perfluorodecanesulfonic acid (PFDS)	5.7		ng/L	P462507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.37	U	ng/L	P462507	
		Perfluoro-1-butane sulfonamide (FBSA)	0.75	U	ng/L	P462507	
		Perfluoro-1-hexane sulfonamide (FHxSA)	0.75	U	ng/L	P462507	
		Perfluoro-1-octane sulfonamide (FOSA)	1.4	I	ng/L	P462507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.9	U	ng/L	P462507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.9	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	1.9	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.5	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	1.9	U	ng/L	P462507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.75	U	ng/L	P462507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.75	U	ng/L	P462507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)	3.7	U	ng/L	P462507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.75	U	ng/L	P462507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)	0.75	U	ng/L	P462507	
		Perfluoro-3-methoxypropanoic acid (PFMPA)	0.75	U	ng/L	P462507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.75	U	ng/L	P462507	
		Perfluoropropanesulfonic acid (PFPrS)	3.7	U	ng/L	P462507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	7.5	U	ng/L	P462507	

Field ID: MW-004 (07/07/25)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2574143	DEP SOP: LC-001-3	2H,2H,3H,3H-perfluorooctanoic acid (5:3 FTCA)	7.5	U	ng/L	P462507	
		2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA)	7.5	U	ng/L	P462507	
		2H,2H,3H,3H-perfluorohexanoic acid (3:3 FTCA)	7.5	U	ng/L	P462507	

Sample Location: Imperial Cleaners

Collection Date/Time: 07/07/2025 12:45

Field ID: MW-005 (07/07/25)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2574144	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)	3.5		ng/L	P462507	
		Perfluorobutanoic acid (PFBA)	12	I	ng/L	P462507	
		Perfluorodecanoic acid (PFDA)	3.8	U	ng/L	P462507	
		Perfluorododecanoic acid (PFDoA)	1.9	U	ng/L	P462507	
		Perfluoroheptanoic acid (PFHpA)	17		ng/L	P462507	
		Perfluorohexanesulfonic acid (PFHxS)	5.2		ng/L	P462507	
		Perfluorohexanoic acid (PFHxA)	14		ng/L	P462507	
		Perfluorononanoic acid (PFNA)	4.5	I	ng/L	P462507	
		Perfluorooctanoic acid (PFOA)	46		ng/L	P462507	
		Perfluorooctanesulfonic acid (PFOS)	100		ng/L	P462507	
		Perfluoropentanoic acid (PFPeA)	19		ng/L	P462507	
		Perfluorotetradecanoic acid (PFTeA)	1.9	U	ng/L	P462507	
		Perfluorotridecanoic acid (PFTriA)	1.9	U	ng/L	P462507	
		Perfluoroundecanoic acid (PFUnA)	1.9	U	ng/L	P462507	
		Perfluoropentanesulfonic acid (PFPeS)	0.53	I	ng/L	P462507	
		Perfluoroheptanesulfonic acid (PFHpS)	1.5	I	ng/L	P462507	
		Perfluorononanesulfonic acid (PFNS)	0.38	U	ng/L	P462507	
		Perfluorodecanesulfonic acid (PFDS)	0.38	U	ng/L	P462507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.38	U	ng/L	P462507	
		Perfluoro-1-butane sulfonamide (FBSA)	0.76	U	ng/L	P462507	
		Perfluoro-1-hexane sulfonamide (FHxSA)	0.76	U	ng/L	P462507	
		Perfluoro-1-octane sulfonamide (FOSA)	0.38	U	ng/L	P462507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.9	U	ng/L	P462507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.9	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	1.9	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.6	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	1.9	U	ng/L	P462507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.76	U	ng/L	P462507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.76	U	ng/L	P462507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)	3.8	U	ng/L	P462507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.76	U	ng/L	P462507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)	0.76	U	ng/L	P462507	
		Perfluoro-3-methoxypropanoic acid (PFMPA)	0.76	U	ng/L	P462507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.76	U	ng/L	P462507	
		Perfluoropropanesulfonic acid (PFPrS)	3.8	U	ng/L	P462507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	7.6	U	ng/L	P462507	

Field ID: MW-005 (07/07/25)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2574144	DEP SOP: LC-001-3	2H,2H,3H,3H-perfluorooctanoic acid (5:3 FTCA)	7.6	U	ng/L	P462507	
		2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA)	7.6	U	ng/L	P462507	
		2H,2H,3H,3H-perfluorohexanoic acid (3:3 FTCA)	7.6	U	ng/L	P462507	

Sample Location: Imperial Cleaners

Collection Date/Time: 07/07/2025 12:09

Field ID: MW-008 (07/07/25)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2574145	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)	34		ng/L	P462507	
		Perfluorobutanoic acid (PFBA)	16		ng/L	P462507	
		Perfluorodecanoic acid (PFDA)	3.9	U	ng/L	P462507	
		Perfluorododecanoic acid (PFDoA)	1.9	U	ng/L	P462507	
		Perfluoroheptanoic acid (PFHpA)	13		ng/L	P462507	
		Perfluorohexanesulfonic acid (PFHxS)	9.8		ng/L	P462507	
		Perfluorohexanoic acid (PFHxA)	32		ng/L	P462507	
		Perfluorononanoic acid (PFNA)	2.0	I	ng/L	P462507	
		Perfluorooctanoic acid (PFOA)	25		ng/L	P462507	
		Perfluorooctanesulfonic acid (PFOS)	60		ng/L	P462507	
		Perfluoropentanoic acid (PFPeA)	29		ng/L	P462507	
		Perfluorotetradecanoic acid (PFTeA)	1.9	U	ng/L	P462507	
		Perfluorotridecanoic acid (PFTriA)	1.9	U	ng/L	P462507	
		Perfluoroundecanoic acid (PFUnA)	1.9	U	ng/L	P462507	
		Perfluoropentanesulfonic acid (PFPeS)	0.60	I	ng/L	P462507	
		Perfluoroheptanesulfonic acid (PFHpS)	0.81	I	ng/L	P462507	
		Perfluorononanesulfonic acid (PFNS)	0.39	U	ng/L	P462507	
		Perfluorodecanesulfonic acid (PFDS)	0.39	U	ng/L	P462507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.39	U	ng/L	P462507	
		Perfluoro-1-butane sulfonamide (FBSA)	5.9		ng/L	P462507	
		Perfluoro-1-hexane sulfonamide (FHxSA)	0.78	U	ng/L	P462507	
		Perfluoro-1-octane sulfonamide (FOSA)	0.74	I	ng/L	P462507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.9	U	ng/L	P462507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.9	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	1.9	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.8	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	1.9	U	ng/L	P462507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.4		ng/L	P462507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.7	I	ng/L	P462507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)	3.9	U	ng/L	P462507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.78	U	ng/L	P462507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)	0.78	U	ng/L	P462507	
		Perfluoro-3-methoxypropanoic acid (PFMPA)	0.78	U	ng/L	P462507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.78	U	ng/L	P462507	
		Perfluoropropanesulfonic acid (PFPrS)	3.9	U	ng/L	P462507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	7.8	U	ng/L	P462507	

Field ID: MW-008 (07/07/25)

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2574145	DEP SOP: LC-001-3	2H,2H,3H,3H-perfluorooctanoic acid (5:3 FTCA)	7.8	U	ng/L	P462507	
		2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA)	7.8	U	ng/L	P462507	
		2H,2H,3H,3H-perfluorohexanoic acid (3:3 FTCA)	7.8	U	ng/L	P462507	

Sample Location: Imperial Cleaners

Collection Date/Time: 07/07/2025 14:39

Field ID: EQB (07/07/25)

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2574146	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)	0.37	U	ng/L	P462507	
		Perfluorobutanoic acid (PFBA)	3.7	U	ng/L	P462507	
		Perfluorodecanoic acid (PFDA)	3.7	U	ng/L	P462507	
		Perfluorododecanoic acid (PFDoA)	1.9	U	ng/L	P462507	
		Perfluoroheptanoic acid (PFHpA)	1.9	U	ng/L	P462507	
		Perfluorohexanesulfonic acid (PFHxS)	0.75	U	ng/L	P462507	
		Perfluorohexanoic acid (PFHxA)	1.9	U	ng/L	P462507	
		Perfluorononanoic acid (PFNA)	1.9	U	ng/L	P462507	
		Perfluorooctanoic acid (PFOA)	1.9	U	ng/L	P462507	
		Perfluorooctanesulfonic acid (PFOS)	1.9	U	ng/L	P462507	
		Perfluoropentanoic acid (PFPeA)	1.9	U	ng/L	P462507	
		Perfluorotetradecanoic acid (PFTeA)	1.9	U	ng/L	P462507	
		Perfluorotridecanoic acid (PFTriA)	1.9	U	ng/L	P462507	
		Perfluoroundecanoic acid (PFUnA)	1.9	U	ng/L	P462507	
		Perfluoropentanesulfonic acid (PFPeS)	0.37	U	ng/L	P462507	
		Perfluoroheptanesulfonic acid (PFHpS)	0.75	U	ng/L	P462507	
		Perfluorononanesulfonic acid (PFNS)	0.37	U	ng/L	P462507	
		Perfluorodecanesulfonic acid (PFDS)	0.37	U	ng/L	P462507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.37	U	ng/L	P462507	
		Perfluoro-1-butane sulfonamide (FBSA)	0.75	U	ng/L	P462507	
		Perfluoro-1-hexane sulfonamide (FHxSA)	0.75	U	ng/L	P462507	
		Perfluoro-1-octane sulfonamide (FOSA)	0.37	U	ng/L	P462507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.9	U	ng/L	P462507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.9	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	1.9	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.5	U	ng/L	P462507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	1.9	U	ng/L	P462507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.75	U	ng/L	P462507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.75	U	ng/L	P462507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)	3.7	U	ng/L	P462507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.75	U	ng/L	P462507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)	0.75	U	ng/L	P462507	
		Perfluoro-3-methoxypropanoic acid (PFMPA)	0.75	U	ng/L	P462507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.75	U	ng/L	P462507	
		Perfluoropropanesulfonic acid (PFPrS)	3.7	U	ng/L	P462507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	7.5	U	ng/L	P462507	

Field ID: EQB (07/07/25)

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2574146	DEP SOP: LC-001-3	2H,2H,3H,3H-perfluorooctanoic acid (5:3 FTCA)	7.5	U	ng/L	P462507	
		2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA)	7.5	U	ng/L	P462507	
		2H,2H,3H,3H-perfluorohexanoic acid (3:3 FTCA)	7.5	U	ng/L	P462507	

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P462507

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.0	U	ng/L
2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA)	8.0	U	ng/L
2H,2H,3H,3H-perfluorohexanoic acid (3:3 FTCA)	8.0	U	ng/L
2H,2H,3H,3H-perfluorooctanoic acid (5:3 FTCA)	8.0	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.80	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.80	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.80	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.80	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
 Batch ID: P462507

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafiuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	88.8		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	94.6		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	119		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	97.8		P	30 - 160
2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA)	104		P	30 - 160
2H,2H,3H,3H-perfluorohexanoic acid (3:3 FTCA)	108		P	30 - 160
2H,2H,3H,3H-perfluorooctanoic acid (5:3 FTCA)	106		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	123		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	105		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	99.2		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	97.9		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	113		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	92.5		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	158		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	117		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	111		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	105		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	98.1		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	98.9		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	110		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	118		P	30 - 160
Perfluorobutanoic acid (PFBA)	109		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	104		P	30 - 160
Perfluorodecanoic acid (PFDA)	119		P	30 - 160
Perfluorododecanoic acid (PFDoA)	127		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	100		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	115		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	105		P	30 - 160
Perfluorohexanoic acid (PFHxA)	105		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	102		P	30 - 160
Perfluorononanoic acid (PFNA)	128		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	118		P	30 - 160
Perfluorooctanoic acid (PFOA)	115		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	111		P	30 - 160
Perfluoropentanoic acid (PFPeA)	104		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	108		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	142		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	149		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	122		P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P462507

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2574212	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	48.7	45.0	P/P	30 - 160
2574212	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	96.8	89.5	P/P	30 - 160
2574212	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	119	125	P/P	30 - 160
2574212	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	103	83.9	P/P	30 - 160
2574212	2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA)	74.7	72.2	P/P	30 - 160
2574212	2H,2H,3H,3H-perfluorohexanoic acid (3:3 FTCA)	107	107	P/P	30 - 160
2574212	2H,2H,3H,3H-perfluorooctanoic acid (5:3 FTCA)	102	109	P/P	30 - 160
2574212	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	120	123	P/P	30 - 160
2574212	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	94.0	89.6	P/P	30 - 160
2574212	Hexafluoropropylene oxide dimer acid (HFPO-DA)	99.7	97.4	P/P	30 - 160
2574212	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	86.3	105	P/P	30 - 160
2574212	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	110	104	P/P	30 - 160
2574212	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	88.5	91.9	P/P	30 - 160
2574212	Perfluoro-1-butane sulfonamide (FBSA)	112	114	P/P	30 - 160
2574212	Perfluoro-1-hexane sulfonamide (FHxSA)	125	123	P/P	30 - 160
2574212	Perfluoro-1-octane sulfonamide (FOSA)	117	111	P/P	30 - 160
2574212	Perfluoro-3-methoxypropanoic acid (PFMPA)	98.5	101	P/P	30 - 160
2574212	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	88.9	96.5	P/P	30 - 160
2574212	Perfluoro-4-methoxybutanoic acid (PFMBA)	96.1	99.9	P/P	30 - 160
2574212	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	105	106	P/P	30 - 160
2574212	Perfluorobutanesulfonic acid (PFBS)	103	108	P/P	30 - 160
2574212	Perfluorobutanoic acid (PFBA)	106	105	P/P	30 - 160
2574212	Perfluorodecanesulfonic acid (PFDS)	57.0	51.1	P/P	30 - 160
2574212	Perfluorodecanoic acid (PFDA)	112	121	P/P	30 - 160
2574212	Perfluorododecanoic acid (PFDoA)	113	129	P/P	30 - 160
2574212	Perfluoroheptanesulfonic acid (PFHpS)	98.8	94.7	P/P	30 - 160
2574212	Perfluoroheptanoic acid (PFHpA)	110	110	P/P	30 - 160
2574212	Perfluorohexanesulfonic acid (PFHxS)	104	102	P/P	30 - 160
2574212	Perfluorohexanoic acid (PFHxA)	107	103	P/P	30 - 160
2574212	Perfluorononanesulfonic acid (PFNS)	76.5	77.1	P/P	30 - 160
2574212	Perfluorononanoic acid (PFNA)	123	120	P/P	30 - 160
2574212	Perfluorooctanesulfonic acid (PFOS)	109	104	P/P	30 - 160
2574212	Perfluorooctanoic acid (PFOA)	116	113	P/P	30 - 160
2574212	Perfluoropentanesulfonic acid (PFPeS)	106	111	P/P	30 - 160
2574212	Perfluoropentanoic acid (PFPeA)	103	106	P/P	30 - 160
2574212	Perfluoropropanesulfonic acid (PFPrS)	108	109	P/P	30 - 160
2574212	Perfluorotetradecanoic acid (PFTeA)	132	157	P/P	30 - 160
2574212	Perfluorotridecanoic acid (PFTriA)	93.6	106	P/P	30 - 160
2574212	Perfluoroundecanoic acid (PFUnA)	117	117	P/P	30 - 160

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P462507

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2574212	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	8.00	Spike	P	0 - 30
2574212	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	7.87	Spike	P	0 - 30
2574212	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	5.15	Spike	P	0 - 30
2574212	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	20.0	Spike	P	0 - 30
2574212	2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA)	3.41	Spike	P	0 - 30
2574212	2H,2H,3H,3H-perfluorohexanoic acid (3:3 FTCA)	0.0	Spike	P	0 - 30
2574212	2H,2H,3H,3H-perfluorooctanoic acid (5:3 FTCA)	6.21	Spike	P	0 - 30
2574212	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.31	Spike	P	0 - 30
2574212	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	4.76	Spike	P	0 - 30
2574212	Hexafluoropropylene oxide dimer acid (HFPO-DA)	2.27	Spike	P	0 - 30
2574212	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19.7	Spike	P	0 - 30
2574212	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.65	Spike	P	0 - 30
2574212	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.71	Spike	P	0 - 30
2574212	Perfluoro-1-butane sulfonamide (FBSA)	1.80	Spike	P	0 - 30
2574212	Perfluoro-1-hexane sulfonamide (FHxSA)	1.59	Spike	P	0 - 30
2574212	Perfluoro-1-octane sulfonamide (FOSA)	5.64	Spike	P	0 - 30
2574212	Perfluoro-3-methoxypropanoic acid (PFMPA)	3.03	Spike	P	0 - 30
2574212	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	8.13	Spike	P	0 - 30
2574212	Perfluoro-4-methoxybutanoic acid (PFMBA)	3.88	Spike	P	0 - 30
2574212	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	1.48	Spike	P	0 - 30
2574212	Perfluorobutanesulfonic acid (PFBS)	4.65	Spike	P	0 - 30
2574212	Perfluorobutanoic acid (PFBA)	0.530	Spike	P	0 - 30
2574212	Perfluorodecanesulfonic acid (PFDS)	10.8	Spike	P	0 - 30
2574212	Perfluorodecanoic acid (PFDA)	7.63	Spike	P	0 - 30
2574212	Perfluorododecanoic acid (PFDoA)	13.0	Spike	P	0 - 30
2574212	Perfluoroheptanesulfonic acid (PFHpS)	4.23	Spike	P	0 - 30
2574212	Perfluoroheptanoic acid (PFHpA)	0.319	Spike	P	0 - 30
2574212	Perfluorohexanesulfonic acid (PFHxS)	1.65	Spike	P	0 - 30
2574212	Perfluorohexanoic acid (PFHxA)	3.75	Spike	P	0 - 30
2574212	Perfluorononanesulfonic acid (PFNS)	0.846	Spike	P	0 - 30
2574212	Perfluorononanoic acid (PFNA)	2.34	Spike	P	0 - 30
2574212	Perfluorooctanesulfonic acid (PFOS)	3.92	Spike	P	0 - 30
2574212	Perfluorooctanoic acid (PFOA)	2.85	Spike	P	0 - 30
2574212	Perfluoropentanesulfonic acid (PFPeS)	4.72	Spike	P	0 - 30
2574212	Perfluoropentanoic acid (PFPeA)	2.89	Spike	P	0 - 30
2574212	Perfluoropropanesulfonic acid (PFPrS)	0.733	Spike	P	0 - 30
2574212	Perfluorotetradecanoic acid (PFTeA)	17.3	Spike	P	0 - 30
2574212	Perfluorotridecanoic acid (PFTriA)	12.7	Spike	P	0 - 30
2574212	Perfluoroundecanoic acid (PFUnA)	0.00340	Spike	P	0 - 30

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2574140

Field Sample ID: MW-001R (07/07/25)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	91.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonic acid-13C	125	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonic acid-13C	125	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.3	P	30 - 160

Lab Sample ID: 2574141

Field Sample ID: MW-001R-DUP (07/07/25)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	92.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonic acid-13C	126	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonic acid-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	94.3	P	30 - 160

Lab Sample ID: 2574142

Field Sample ID: MW-002R (07/07/25)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	96.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonic acid-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	125	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonic acid-13C	135	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.7	P	30 - 160

Lab Sample ID: 2574143

Field Sample ID: MW-004 (07/07/25)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	91.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonic acid-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonic acid-13C	123	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.4	P	30 - 160

Lab Sample ID: 2574144

Field Sample ID: MW-005 (07/07/25)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	91.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonic acid-13C	146	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	146	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonic acid-13C	149	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	94.3	P	30 - 160

Lab Sample ID: 2574145

Field Sample ID: MW-008 (07/07/25)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	91.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonic acid-13C	119	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2574145

Field Sample ID: MW-008 (07/07/25)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	130	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonic acid-13C	127	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.3	P	30 - 160

Lab Sample ID: 2574146

Field Sample ID: EQB (07/07/25)

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	93.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonic acid-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonic acid-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.3	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A132731

Included Lab Sample IDs: 2574140, 2574141, 2574142, 2574143, 2574144, 2574145, 2574146

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	105	96.6	P/P	60 - 160
11-Chloroicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	96.6	105	P/P	60 - 160
11-Chloroicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	97.9	105	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	107	84.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	120	107	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	84.6	105	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	114	102	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	93.7	95.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	95.0	114	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	111	78.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	78.0	101	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	90.0	111	P/P	60 - 160
2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA)	104	109	P/P	60 - 160
2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA)	104	109	P/P	60 - 160
2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA)	109	104	P/P	60 - 160
2H,2H,3H,3H-perfluorohexanoic acid (3:3 FTCA)	101	103	P/P	60 - 160
2H,2H,3H,3H-perfluorohexanoic acid (3:3 FTCA)	103	108	P/P	60 - 160
2H,2H,3H,3H-perfluorohexanoic acid (3:3 FTCA)	108	102	P/P	60 - 160
2H,2H,3H,3H-perfluorooctanoic acid (5:3 FTCA)	101	109	P/P	60 - 160
2H,2H,3H,3H-perfluorooctanoic acid (5:3 FTCA)	107	101	P/P	60 - 160
2H,2H,3H,3H-perfluorooctanoic acid (5:3 FTCA)	108	107	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	107	112	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	112	113	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	113	106	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	100	94.3	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	87.0	100	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	94.3	97.8	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	96.7	93.2	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	98.6	96.7	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	99.9	98.6	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	78.6	91.7	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	88.4	78.6	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	99.3	88.4	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	101	94.2	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	102	101	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	108	102	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	82.5	93.1	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	84.3	92.2	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	93.1	84.3	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	104	101	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	111	104	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	115	111	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	112	120	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	115	112	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	121	115	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	105	99.0	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	99.0	104	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	99.0	99.0	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	93.1	93.4	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	93.4	90.1	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	93.9	93.1	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A132731

Included Lab Sample IDs: 2574140, 2574141, 2574142, 2574143, 2574144, 2574145, 2574146

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	87.9	85.9	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	88.1	87.9	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	95.0	88.1	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	89.3	88.0	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	93.4	93.8	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	93.8	89.3	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	102	98.7	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	105	102	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	98.0	105	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	101	102	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	102	101	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	97.1	101	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	96.0	92.5	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	96.3	96.0	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	99.2	96.3	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	104	99.4	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	94.0	104	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	99.4	106	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	101	102	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	104	101	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	108	104	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	104	110	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	109	104	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	110	109	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	88.3	92.2	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	96.1	88.3	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	97.1	96.1	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	100	96.6	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	101	104	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	96.6	101	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	101	98.0	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	94.5	94.3	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	98.0	94.5	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	102	105	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	105	97.7	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	97.7	101	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	86.8	89.9	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	89.1	90.9	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	90.9	86.8	P/P	60 - 160
Perfluorononanoic acid (PFNA)	111	116	P/P	60 - 160
Perfluorononanoic acid (PFNA)	114	108	P/P	60 - 160
Perfluorononanoic acid (PFNA)	116	114	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	100	101	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	101	107	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	95.3	100	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	106	108	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	108	109	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	108	108	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	95.1	103	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	98.0	98.1	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	98.1	95.1	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A132731

Included Lab Sample IDs: 2574140, 2574141, 2574142, 2574143, 2574144, 2574145, 2574146

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoropentanoic acid (PFPeA)	93.3	94.3	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	94.3	91.1	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	97.4	93.3	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	103	99.2	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	93.9	103	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	99.2	101	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	119	123	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	121	119	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	123	118	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	112	117	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	112	112	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	117	112	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	104	110	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	110	104	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	111	110	P/P	60 - 160

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
DEP SOP: LC-001-3	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	88.8	48.7	45.0		8.00
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	94.6	96.8	89.5		7.87
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	119	119	125		5.15
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	97.8	103	83.9		20.0
	2H,2H,3H,3H-perfluorodecanoic acid (7:3 FTCA)	104	74.7	72.2		3.41
	2H,2H,3H,3H-perfluorohexanoic acid (3:3 FTCA)	108	107	107		0.0
	2H,2H,3H,3H-perfluorooctanoic acid (5:3 FTCA)	106	102	109		6.21
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	123	120	123		2.31
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	105	94.0	89.6		4.76
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	99.2	99.7	97.4		2.27
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	97.9	86.3	105		19.7
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	113	110	104		5.65
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	92.5	88.5	91.9		3.71
	Perfluoro-1-butane sulfonamide (FBSA)	158	112	114		1.80
	Perfluoro-1-hexane sulfonamide (FHxSA)	117	125	123		1.59
	Perfluoro-1-octane sulfonamide (FOSA)	111	117	111		5.64
	Perfluoro-3-methoxypropanoic acid (PFMPA)	105	98.5	101		3.03
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	98.1	88.9	96.5		8.13
	Perfluoro-4-methoxybutanoic acid (PFMBA)	98.9	96.1	99.9		3.88
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	110	105	106		1.48
	Perfluorobutanesulfonic acid (PFBS)	118	103	108		4.65
	Perfluorobutanoic acid (PFBA)	109	106	105		0.530
	Perfluorodecanesulfonic acid (PFDS)	104	57.0	51.1		10.8
	Perfluorodecanoic acid (PFDA)	119	112	121		7.63
	Perfluorododecanoic acid (PFDoA)	127	113	129		13.0
	Perfluoroheptanesulfonic acid (PFHpS)	100	98.8	94.7		4.23
	Perfluoroheptanoic acid (PFHpA)	115	110	110		0.319
	Perfluorohexanesulfonic acid (PFHxS)	105	104	102		1.65
	Perfluorohexanoic acid (PFHxA)	105	107	103		3.75
	Perfluorononanesulfonic acid (PFNS)	102	76.5	77.1		0.846
	Perfluorononanoic acid (PFNA)	128	123	120		2.34
	Perfluorooctanesulfonic acid (PFOS)	118	109	104		3.92

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
			LCS	MS	SMP	MS
DEP SOP: LC-001-3	Perfluorooctanoic acid (PFOA)	115	116	113		2.85
	Perfluoropentanesulfonic acid (PFPeS)	111	106	111		4.72
	Perfluoropentanoic acid (PFPeA)	104	103	106		2.89
	Perfluoropropanesulfonic acid (PFPrS)	108	108	109		0.733
	Perfluorotetradecanoic acid (PFTeA)	142	132	157		17.3
	Perfluorotridecanoic acid (PFTriA)	149	93.6	106		12.7
	Perfluoroundecanoic acid (PFUnA)	122	117	117		0.0034

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: LC-001-3	Perfluorinated alkyl substances in water matrices by HPLC/MS/MS	2574140, 2574141, 2574142, 2574143, 2574144, 2574145, 2574146

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	07/08/2025	07/12/2025 09:30	Hana Lee	07/14/2025 17:29	Hana Lee	2574146
	07/08/2025	07/12/2025 09:30	Hana Lee	07/14/2025 18:57	Hana Lee	2574140
	07/08/2025	07/12/2025 09:30	Hana Lee	07/14/2025 19:09	Hana Lee	2574141
	07/08/2025	07/12/2025 09:30	Hana Lee	07/14/2025 20:12	Hana Lee	2574142
	07/08/2025	07/12/2025 09:30	Hana Lee	07/14/2025 20:24	Hana Lee	2574143
	07/08/2025	07/12/2025 09:30	Hana Lee	07/14/2025 20:49	Hana Lee	2574144
	07/08/2025	07/12/2025 09:30	Hana Lee	07/14/2025 21:02	Hana Lee	2574145

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Lake Killarney Board

agenda item 7.c

item type

Staff Updates

meeting date

January 7, 2026

prepared by

Victoria Tabor, Administrative Coordinator III

approved by

Victoria Tabor, Administrative Coordinator III

subject

Lakes Management

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

1. Lake Update 01.2026

LAKE UPDATE:

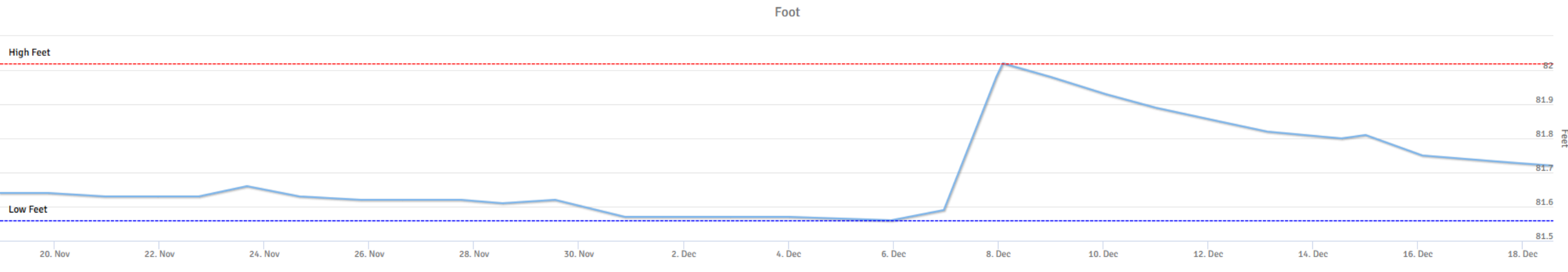
- Lake Killarney Data Updates
- Thank you email sent to Lake Killarney Clean-up Event participants on behalf of the Board, drafted by David Dickerson
- Aquatic Plant Management Treatment Updates
 - Salvinia and Duckweed Treatments in Cove and Canal
- Maintenance and Efforts:
 - Debris Removed – 0 gals
 - Trash Removed – 10 gals
- Upcoming Events
 - Howell Branch Preserve Litter Cleanup – Jan 24th (1205 Howell Branch Rd)

Status	Priority	Subject	Board Description	Staff Notes	Date Provided
Ongoing	High	Exfiltration Maintenance	See example/actual agreement regarding requirements for underground retention systems and related cleaning process and timing.	Shannon provided example of signed maintenance agreement and letter requiring compliance with maintenance records	12/4/2024
Ongoing	High	Private Lift Station Maintenance Agreement Program	Status of private lift station inspection and reporting program to monitor the maintenance compliance of private lift stations in Winter Park or WP's jurisdiction.	David Zusi Provided update to the Board. Agreement in effect sent to Board.	11/5/2024
Ongoing	Low	Lk Bell water quality testing	Add Lk Bell to sampling schedule	Lake Bell is already a part of city's monitoring program. Lk Bell Data will be added to the monthly updates.	8/6/2025
Ongoing	High	HAB Education	HAB concerns	Staff provides advisories via lake alerts as they are issued by the public health agencies.	Ongoing
Ongoing	High	Imperial Update	latest update on the testing and results	Shannon provides update upon report received from FDEP	7/2/2024
Pending	High	Drainage Basin Improvements	Killarney Drive Outfall Project	Construction in progress	
Ongoing	High	Basin Study Update	Status on study's recommendations and progress such as FDOT pond expansion	Killarney Drainage Improvements are under construction. MLK flood storage expansion design is underway. Nothing to report on the FDOT pond expansion.	Ongoing
Pending	High	Drainage Basin Improvements	CONDITION REPORT OF LK STORMWATER SYSTEM – Status of the report on mapping and the condition evaluation of all stormwater outfalls on or around Lake Killarney /cove/ canal. Who's responsible for this project and any update, or is a partial report review possible? I know the city hired an engineering firm and that report is due in about a year; however, I believe Shannon was working on this. Is this still in the works at the staff level?	Camera truck received May 2025; Program to begin inspections in high priority areas	Ongoing
Ongoing	High	Drainage Basin Improvements	NEW ENHANCEMENTS FOR LK – Where might it be good to include a CDS box if stormwater pipes and outfalls are updated, consolidated and fixed? Will the board be part of this discussion? Are there federal or state funds available for these types of expensive corrections and enhancements? I know staff always considers this enhancement; however, maybe the board could assist with encouragement to the commission to access funds for these environmentally beneficial devices.	FDEP grants funds for stormwater retrofit projects such as this. The City has applied and received a grant for a CDS unit at the Shoreview Ave outfall on Lake Killarney.	Ongoing
Pending	High	Street Sweeping Compliance	Status of ew contract, schedule, and work verification	Contractor is still in the process of learning the City streets and timing to complete sections of the City. Once completed, a schedule will be developed.	Ongoing
Pending	High	Lake Data Dashboard	Status of on-line dashboard	Beta complete and presented to Lakes & Waterway Board. Launch expected by Fall.	
Ongoing	High	Attend Orange County Lake Advisory Board Meeting	WP Board Members should attend regularly	WP staff hosts and attends OC meeting. WP Board expressed importance for its members (at least one) to regularly attend.	Ongoing
Ongoing	High	Canal Improvements	Board expressed concerns with maintenance, water quality and aesthetics	City performs monthly activities for the canal. City continues revegetation efforts and the treatment of Brazilian pepper.	Ongoing
Pending	High	Lake Killarney Board Members Participation	Better participation from board members in community projects and communication		

City Staff Recommendations to Board:

Pending	High	Welcome to your Lake Program	Provide welcoming educational packet for lakeside living for all new residents.	Lakes is developing packet for distribution and communicated for effectiveness, lake members provide awareness to new residents on the lake.	
Pending	High	Host Community Meetings	Provide Community meetings for education & awareness	Host annual Dock Party at a minimum to engage the community. Goal is to provide continuous education and a venue to gain contact information for all lakeside residents.	
Pending	High	Septic to Sewer	Reduce nutrient sources with septic to sewer conversion	Seek grants and coordinate with OC for conversion funds to include community educational program	

Lake Killarney Elevation (2026)



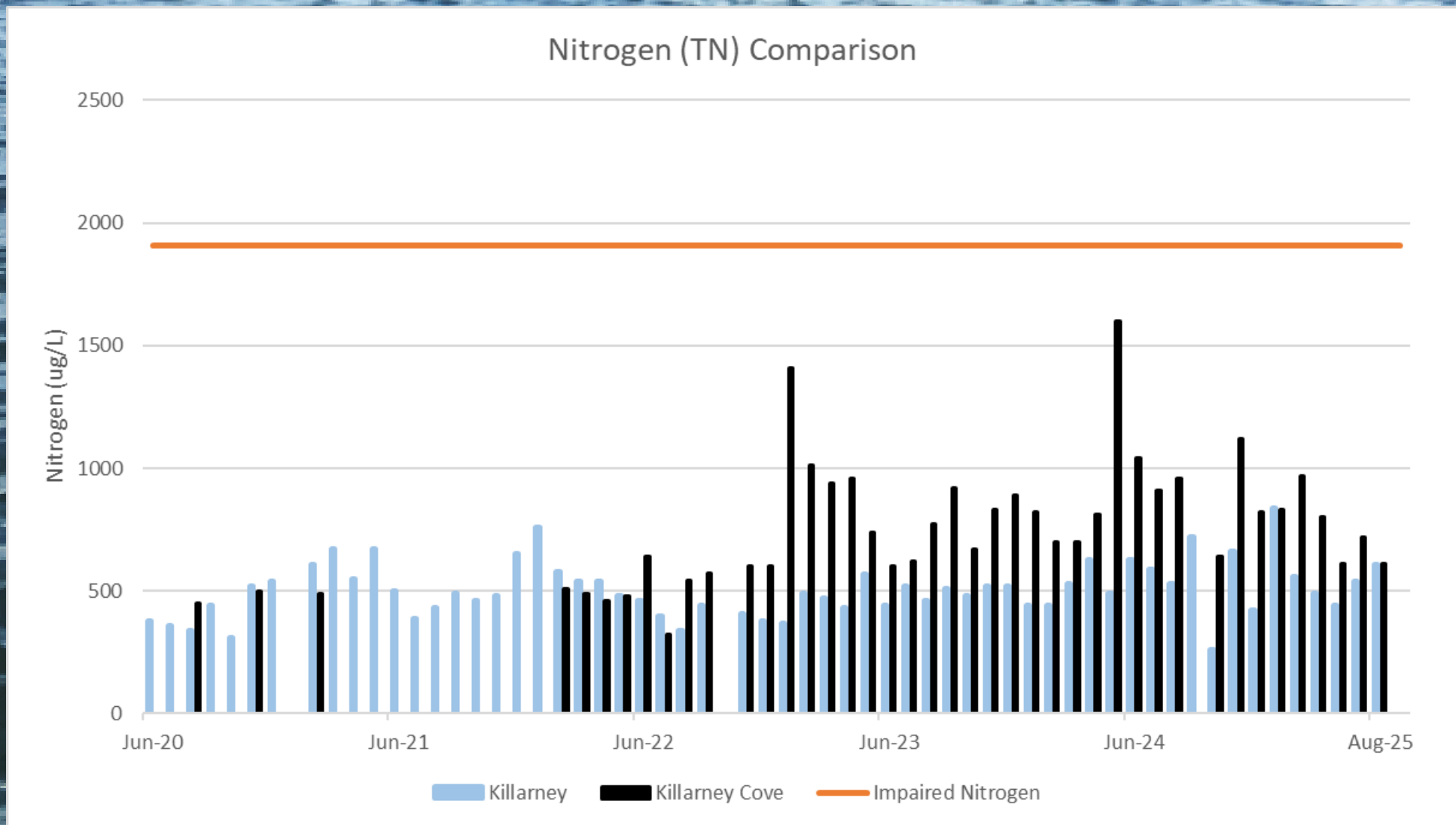
Drainwell Elevations :

- Killarney Drain Wells @ avg 81.66'
- Top of Drain Well casings @ avg 80.0'

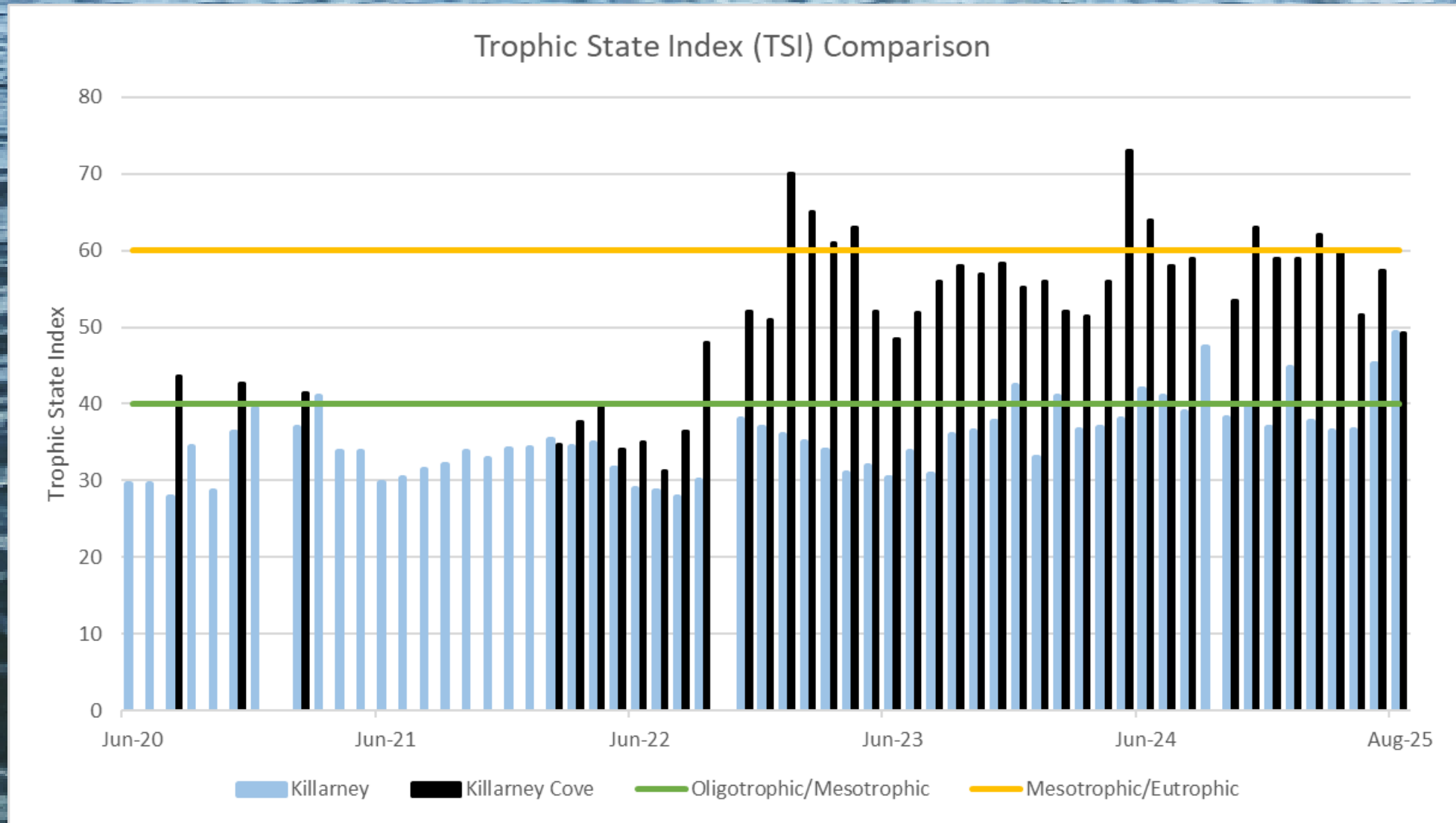
Weir Elevation :

- Orlando Ave Weir inflow @ 83.0'
- Lake Gem Weir outflow @ 82.7'

Lake Killarney (Nitrogen)



Lake Killarney (TSI)





Lake Killarney Board

agenda item 7.d

item type

Staff Updates

meeting date

January 7, 2026

prepared by

Victoria Tabor, Administrative Coordinator III

approved by

Victoria Tabor, Administrative Coordinator III

subject

Stormwater Management

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

1. SW Update 1.26 Lake Killarney Board

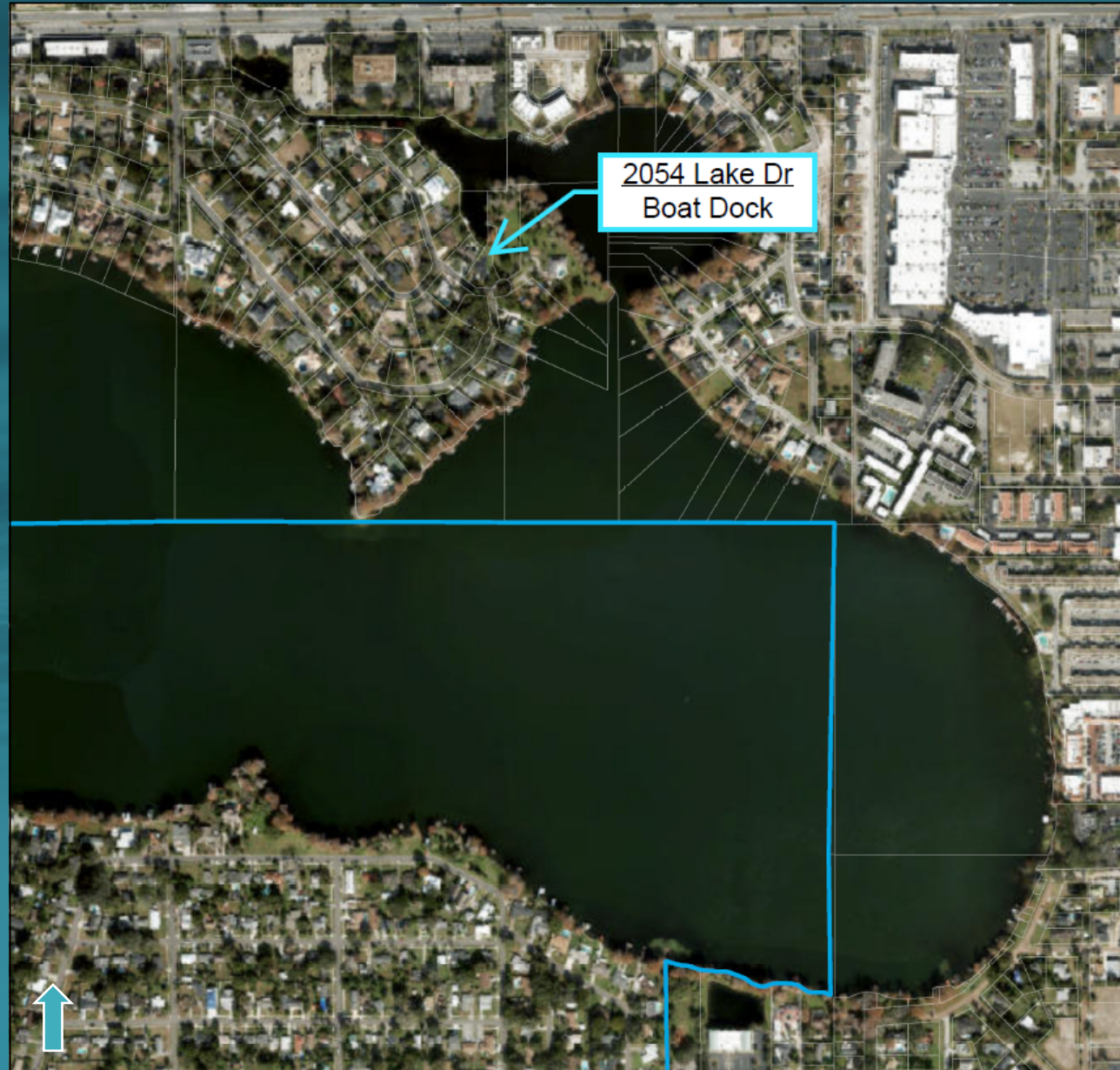
Stormwater Staff Update

Lake Killarney Board Stormwater CIP – Fiscal Year 2026

Drainage Improvements - Recent years of unusually heavy rainfall events have revealed several substandard drainage conditions in various locations throughout the City.	Annually Funded	\$335,388	Several in-house drainage improvements projects for 2025-26 - Completed - Lake Knowles Cir/ Edgewater Ave Pipe Replacement Ongoing - Stormwater Outfall Dredging as needed
			Upcoming
			Spruce Ave Pipe Replacement
			Shultz Ave Pipe Repair
			Cherokee Ave drainage improvements
			Harmon Ave Pipe Replacement
Seminole County Ditch Piping (along Arbor Park Dr) – Drainage ditch behind the homes along Arbor Park Drive has a shared drainage basin with Seminole County. Funding is provided for the design and construction to pipe the ditch.	2016	\$532,418	The Interlocal Agreement was approved by the City Commission and by the Seminole County Commission. 90% plans completed and submitted to Seminole County. Permit documents are being prepared. Estimated start date May 2026.
Stirling Bridge Replacement	2024	\$17,243	Design is underway.
Killarney Dr - Drainage & Street Improvements	2025	\$24,840	Combine failing outfalls into one outfall, includes new inlets. Site remediation is complete.
Palmer Ave at Old England - Drainage Improvements-Phase 1	2025	\$249,500	Replacement outfall at Old England Ave, north of Palmer Ave. Permit received. Work is scheduled for Early 2026.
Lake Spier Drainwell	2024	\$110,700	Both wells installed and online. Site remediation is underway.
Fawsett Road CDS Unit	2026	\$550,000	New CDS unit to treat the outfall that discharges to Lake Sue. 60% plans complete.
Curb Implementation	2026	\$80,000	Curb installation at various locations.
Golfside Dr Pipe Replacement	2026	\$600,000	Replace culvert under Golfside Dr to improve drainage upstream. Survey is complete.

Stormwater Staff Update

Lake Killarney Board
Current Lakefront Construction



Stormwater Staff Update

Lake Killarney Board

- Follow-up items:
 - Orange County Killarney Dr
 - Major Outfall Inspection Schedule
 - Street Sweeping Schedule



Lake Killarney Board

agenda item 7.e

item type

Staff Updates

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Upcoming Events

- Howell Branch Preserve Litter Clean-up — January 24th 9am @ 1205 Howell Branch Rd.

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

None



Lake Killarney Board

agenda item 8.a

item type

Board Comments

meeting date

January 7, 2026

prepared by

Victoria Tabor, Administrative Coordinator III

approved by

Victoria Tabor, Administrative Coordinator III

subject

Discussion of Public Comments Received

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

None



Lake Killarney Board

agenda item 9.a

item type

Upcoming Agenda Items

meeting date

January 7, 2026

prepared by

Victoria Tabor, Administrative Coordinator III

approved by

Victoria Tabor, Administrative Coordinator III

subject

Upcoming Agenda Items

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

None



Lake Killarney Board

agenda item 9.b

item type

Upcoming Agenda Items

meeting date

January 7, 2026

prepared by

Victoria Tabor, Administrative Coordinator III

approved by

Victoria Tabor, Administrative Coordinator III

subject

Summary of Meeting Action Items

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

None