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VIA ELECTRONIC CORRESPONDENCE

June 30, 2021

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File No: 8.DC.06.19

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**RE: Consent Decree (Case: No. 1:12-cv-24400-FAM),
Reference DOJ Case No. 90-5-1-1-4022/1,
Section VI, - Fats, Oils and Grease (“FOG”) Control Program Paragraph 19(a)
Fourth Annual FOG Control Program Review Report**

Dear Sir or Madam:

In accordance with the FOG Control Program approved by the United States Environmental Protection Agency (EPA) and Florida Department of Environmental Protection (FDEP) on September 7, 2017, Miami-Dade County (County) is submitting the Fourth Annual FOG Control Program Review Report.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate

and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Should you have any questions regarding this matter, please call me at (305) 372-6754.

Sincerely,



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Miami-Dade County FOG Control Program

4th Annual FOG Control Program Review Report

June 30, 2020

Prepared by

Division of Environmental Resources Management (DERM)

**Miami-Dade County Department of Regulatory and Economic
Resources**

Prepared for

United States Environmental Protection Agency and

Florida Department of Environmental Protection

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4th Annual FOG Control Program Review Report

PREPARED BY:

Division of Environmental Resources Management (DERM)

Miami-Dade County Department of Regulatory and Economic Resources

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Prepared by:	Carlos L. Hernandez, PE		

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				Carlos L. Hernandez, PE <i>Carlos L. Hernandez</i>
Revision	Revision Date	Status	Revised by:	Water & Wastewater Division Signature
		Final	Carlos L. Hernandez, PE	

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Table of Contents

1.	Introduction.....	3
2.	Performance Measures (PMs) and Key Performance Indicators (KPIs).....	4
2.1	Collection System SSOs Primarily Caused by FOG -----	4
2.2	Number of FOG Generators without a FOG Control Device -----	8
2.3	Number of Breached FOG Control Devices-----	8
2.4	FOG Program Workforce Analysis -----	9
2.4.1	Routine Inspections.....	12
2.4.2	Hot Spots & Complaints Inspections.....	13
2.4.3	Construction Inspections.....	13
2.4.4	Confirmation Inspections.....	14
2.4.5	FOG Disposal Facility Inspections.....	14
2.4.6	Residential Areas Inspections.....	15
2.4.7	eManifest Inspections.....	15
2.5	FOG Construction Plans and Certificate of Use Reviews -----	16
2.6	FOG Outreach and Education Events -----	17
3.	FOG Control Program Review Committee	18
4.	Proposed FCO and FCP Revisions	21
5.	Conclusions.....	22

Charts

Chart 1a	Sanitary Sewer Overflows for All Utilities
Chart 1b	2020 Sanitary Sewer Overflows by Utility
Chart 1c	Total FOG Hot Spot Utility Cost by Month
Chart 2	Food Service Establishments without a Grease Interceptor
Chart 3	Number of Grease Discharge Operating Permits
Chart 4	Number of Inspections per Year
Chart 5	Total FOG Engineering Reviews (Overtown & PIC)
Chart 6	Occupational License, Certificate of Use Reviews (Overtown & PIC)

Tables

Table 1	PMs & KPIs
Table 2	Prior, Current & Future Staffing
Table 3	Basis for Staffing Calculations
Table 4	10 Years Staffing FTEs
Table 5	Outreach Events
Table 6	FOG Implementation Schedule

Attachments

Attachment 1	Sample of Utility Hot Spot Report
Attachment 2	17 th FOG Round Table Meeting Materials

1. Introduction

The Miami-Dade County Department of Regulatory and Economic Resources, Division of Environmental Resources Management (DERM) prepared this Annual Fats, Oils, and Grease (FOG) Control Program Review Report (Report) pursuant to Miami-Dade County's FOG Control Program (FCP) and Ordinance (FCO) approved by the United States of America Environmental Protection Agency (EPA) and Florida Department of Environmental Protection (FDEP) on September 7, 2017. The FCO was approved by the Miami-Dade County Board of County Commissioners on February 21, 2018 and became effective on March 5, 2018.

Pursuant to Paragraph 19(a)(xv) of the of the Consent Decree (CD), Case No. 1:12-cv-24400-FAM, DERM's FCP includes an annual review process to evaluate the effectiveness of the FCP and FCO to achieve reductions in FOG discharges to the wastewater collection, transmission and treatment systems (WCTTSs) and thereby reduce sanitary sewer overflows (SSOs) caused by FOG. Performance Measures (PM) and Key Performance Indicators (KPIs) are utilized for this evaluation.

As noted in the prior annual report, the COVID-19 Pandemic had a significant impact on food service establishments (FSEs), the permitting and inspection processes, and the FCP. While significant programmatic changes were made quickly to expand electronic services in the permitting process (migrating 100% of the permitting process to electronic platforms to facilitate submittals, reviews and approvals), the nature of the impact of COVID-19 Pandemic on FSEs required significant changes to inspection programs for existing FSEs. The latter included shifting inspection points from FOG sources to downstream transmission systems (i.e., pump stations) to comply with mandatory safety precautions. While it is anticipated that COVID-19 Pandemic requirements will continue to change, it is assumed, for planning purposes that the current approach will persist until the end of this calendar year, with routine inspections starting in 2022. The latter also corresponds with staffing changes for 2022, with the anticipated addition of the following staff:

- One (1) Engineer 3: Manager for Treatment Programs, including FCP
- One (1) Engineer 3: Manager for WCTS, including SSO Response Program
- One (1) Pollution Control Inspector 1: SSO Response Program
- Six (6) Environmental Technician 2: SSO Response Program

2. Performance Measures (PMs) and Key Performance Indicators (KPIs)

The following PMs and KPIs are being utilized to evaluate the effectiveness of the FCP and FCO and, with other factors, evaluate the need to revise the FCP and/or FCO (refer to **Table 1**).

PM	KPI	Method	DERM Target
Collection System SSOs Primarily Caused by FOG		MDWASD Monthly Report/Meeting	Annual Reduction
Collection System Blockages Primarily Caused by FOG		MDWASD Monthly Report/Meeting	Annual Reduction
	Number of FOG Generators without FOG Control Device	FOG Inspections	Annual Reduction None by 2018
	Routine FOG Inspection Frequency	FOG Inspections	100% Annually by September 2019
	FOG Education (Residential)	Education	Six (6) Events Annually Implementation of the program by March 5, 2020 ⁽¹⁾
	FOG Stakeholder Outreach (commercial/industrial)	Outreach	Six (6) Events Annually

(1) March 5, 2018 + 24 Months (October 18, 2017 Miami-Dade County FOG Control Program & Proposed FOG Control Ordinance, Section 13.01)

Table 1. PMs & KPIs

A summary of select PMs, KPIs and other indicators are discussed below.

2.1 Collection System SSOs Primarily Caused by FOG

SSOs reported to DERM are monitored daily and logged for tracking and assessment (e.g., root cause, enforcement and moratoriums). The total number of SSOs reported by the sixteen (16) Utilities (MDWASD + 15 Municipal Utilities) is presented in **Chart 1a**. The data presented in **Chart 1a** is primarily from MDWASD reporting given the size of the MDWASD system relative to that of

the Municipal Utilities and the sophistication of MDWASD's identification and reporting capabilities stemming from prior consent decrees. DERM has been working with all Municipal Utilities to improve SSO identification and reporting capabilities and this has been discussed in Utility Round Table meetings. It is believed, based on the most recent data that Municipal Utility reporting has improved. It is therefore anticipated that as Municipal Utility reporting improves, the number of SSOs may actually increase, and that this increase may conceal actual improvements associated with the FCP. For this reason, SSOs will be presented by each utility and collectively as presented in **Chart 1b**.

Additionally, it is anticipated that several years of data will be required to establish reliable trends. That is, decreases or increases in SSOs may not reflect the impact of the FCP and FCO for a few years after March 2018, the implementation date for the new FCP/FCO.

A summary of findings for SSOs follows:

1. The total number of SSOs reported by the Utilities shows an increasing trend except for a decrease in 2018 (refer to **Chart 1a**).
2. The total number of SSOs caused by FOG was showing a decreasing trend but rose significantly in 2019 (refer to **Chart 1a**), decreasing in 2020.
3. SSOs by Utilities in 2020 is shown in **Chart 1b**.

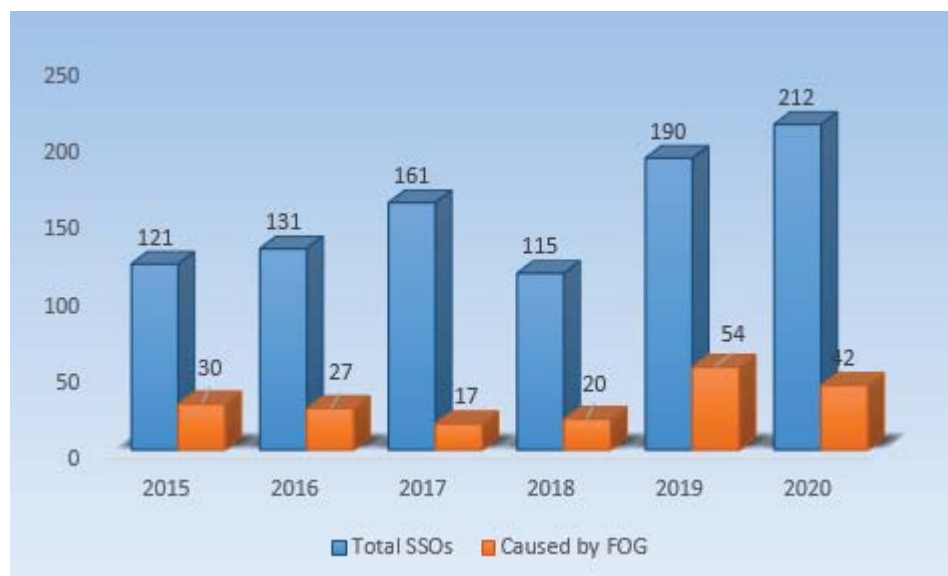


Chart 1a: Sanitary Sewer Overflows for All Utilities

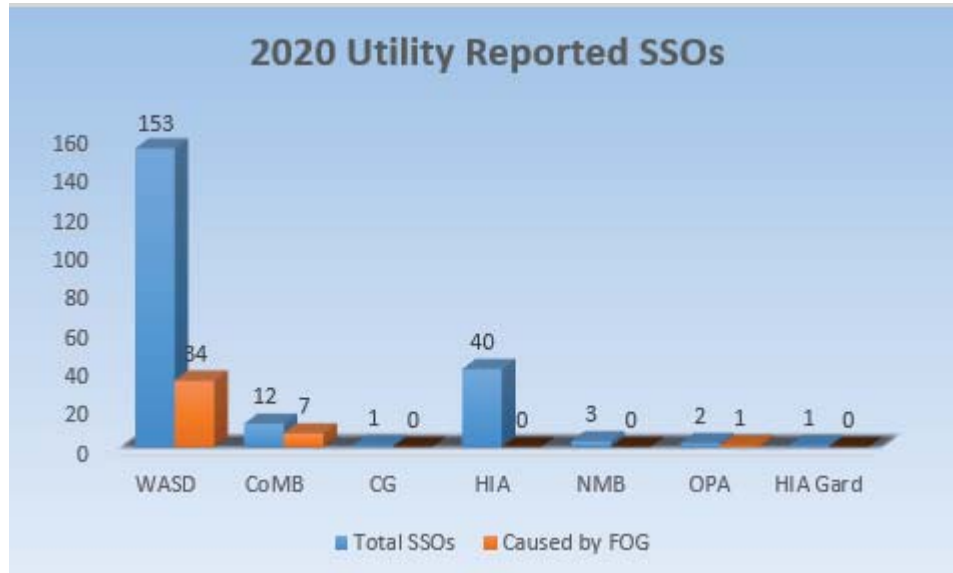


Chart 1b: 2020 Sanitary Sewer Overflows by Utility

The FCP strategies to reduce FOG related SSOs included front-end (e.g., design standards, more efficient interceptors, and eManifest) and back-end (e.g., Hot Spot reporting) process improvements. Hot Spot reporting continues to be a key area for prevention of SSOs.

The following are some of the areas inspected during 2020 and 2021 as a result of Hot Spot reports or complaints by Utilities:

- Giralda Avenue and Miracle Mile, City of Coral Gables
- Lincoln Road, Ocean Drive, and Collins Ave, City of Miami Beach
- Bal Harbour Shoppes area, Town of Bal Harbour
- NW 72nd Ave and NW South River Drive, Town of Medley
- NW 183rd St, between 42nd and 47th Ave
- SW 88th St and 99th Ave (shopping Center)
- SW 40th St and 67th Ave
- SW 117th Ave & 72 St
- SW 1st Ave, between 10th St & 11th St, Brickell
- SE 1st Ave, between 3rd and 4th St, Brickell
- 163rt St Intracoastal Mall
- SW 40th St and 79 St. Shopping center

As reported in the 2nd Annual FOG Control Program Review Report, MDWASD had integrated a real-time level monitoring system (e.g., SmartLevel™/SmartCover) to minimize Hot Spot SSOs. By incorporating two-way communication devices at key manholes, MDWASD can deploy field teams to prevent an SSO based on preset wastewater level alerts and warnings (i.e., wastewater level above invert measured from the bottom of the manhole cover). MDWASD defines a Hot Spot as a location with three (3) or more SSOs in a period of two (2) years. MDWASD continues to use this system to minimize SSOs.

Municipal Utilities are notifying DERM of Hot Spots utilizing the monthly Hot Spot Report or FOG complaints (areas of concern). The Municipal Utilities submit a Hot Spot report to DERM on a monthly basis. Currently, the DERM FOG Inspection Group supervisor reviews complaints and prioritizes inspections accordingly. A sample of Utility Hot Spot report is included in **Attachment 1**. The total cost of FOG Hot Spots for Utilities is included in **Chart 1c** below.

Notwithstanding the improvements made, additional focus is required to reduce SSOs. To this end, DERM will be expanding the SSO Response and Prevention Program starting in 2022.



Chart 1c: Total FOG Hot Spot Utility Cost by Month

2.2 Number of FOG Generators without a FOG Control Device

With the implementation of the new FCP, a key goal has been the reduction in the number of FSEs operating without a grease interceptor (No Grease Interceptor, NGI). Inspection efforts have focused on bringing these sites into compliance. The goal is to have zero (0) NGI sites.

The total number of NGI FSEs have decreased from **695** in 2015, to **36** (refer to **Chart 2**). This reduction is the result of a coordinated effort involving a significant number of resources working on compliance assistance, technical support and enforcement. DERM will continue to focus resources to accomplishing the goal of zero (0) NGI FSEs.

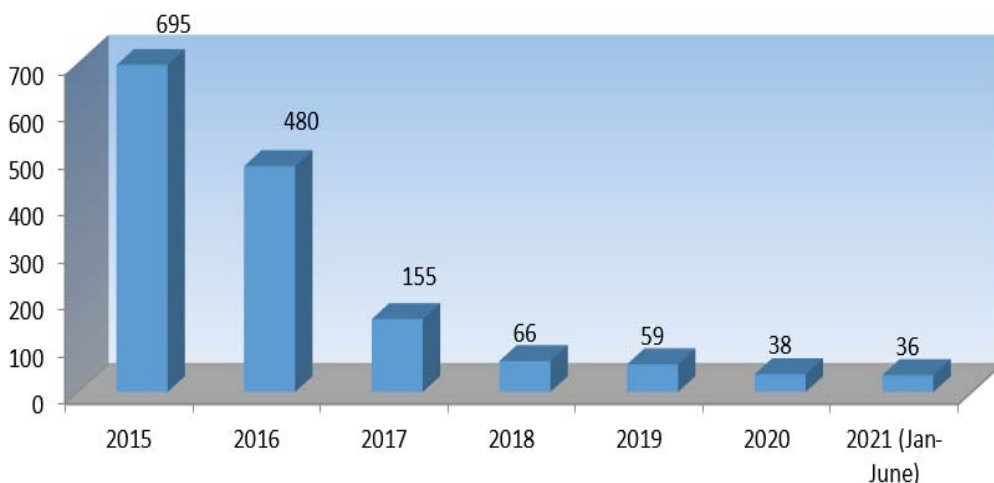


Chart 2: Food Service Establishments without a Grease Interceptor

2.3 Number of Breached FOG Control Devices

Starting with the third annual report, a new category was added: *Number of Breached FOG Control Devices*. It is anticipated that the number of NGIs will become zero and therefore a replacement category was selected that represents a significant concern and equally important to track in this report. A breached FOG Control Device is one that is damaged and/or defective so that it allows wastewater, FOG or food waste to seep, flow, or discharge into the ground, groundwater, surface waters or any other location not approved by the Director or Director’s

designee. Corrosion is a common root cause for breached devices and therefore unprotected concrete tanks are the most common type of breached device.

Due to the COVID-19 Pandemic, limited FSEs were inspected as the focus shifted to inspecting downstream systems (e.g., pump stations) to comply with mandatory safety precautions. As a result of this shift, a complete assessment of the number of potential breached tanks is not possible at this time. However, for those identified, enforcement continues. As the focus shifts to routine annual inspection in 2022, a more accurate count of breached tanks will be available. Future reports will provide totals by year in a chart form and summarize enforcement efforts and outcomes.

2.4 FOG Program Workforce Analysis

Staffing resources (workforce) and workload were evaluated to assess future staffing needs. Workload was analyzed by specific task/assignments and modified in anticipation of new staff for 2022:

- Routine Inspections
- Hot Spots & Complaints Inspections [by new 2022 Staff]
- Construction Inspections
- Confirmation Inspections
- FOG Disposal Facility Inspections
- Residential Areas Inspections
- eManifest Inspections
- *Private Pump Station Inspections (~ 1,500) [by new 2022 Staff]*
- *Public Pump Station Inspections (~1,600) [by new 2022 Staff]*

A significant change from prior years is the anticipated new staffing to support additional tasks to inspect and monitor private and public pump station inspections. This effort became significant when the COVID-19 Pandemic made it difficult to inspect FSEs. A shift to pump station inspections resulted from social-distancing requirements and concerns that pump station failures could further complicate public health concerns. Moreover, the accumulation of FOG in a wet well is a clear sign of poor FOG control, whether it be from commercial establishments (e.g., restaurants) or residences. Based on the success of this initiative, pump station inspections have been made a permanent task in the FCP through the end of 2021 and part of the SSO Response

and Prevention Programs starting in 2022. The latter will free up staff to initiate routine annual FSE inspections in 2022.

A comparison of staffing levels, past, present and future, is shown below in **Table 2**.

Staff Position	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Change
Division Chief	1	1	1	1	1	1	1	1	1	1	No change
Program Manager	1	0	0	0	1	1	1	1	1	1	Position was moved in 2019 to temporarily address immediate needs in development programs. Replacing position is proposed ⁽¹⁾
Supervisor	2	2	2	2	2	2	2	3	3	3	Increase proposed ⁽¹⁾
FOG Inspector	4	4	4	4	4	4	4	6	6	6	Increase proposed ⁽¹⁾
FOG Technician	8	8	10 ⁽²⁾	10 ⁽²⁾	12 ⁽³⁾	12 ⁽³⁾	12 ⁽³⁾	14 ⁽³⁾	14 ⁽³⁾	14 ⁽³⁾	Increase proposed ⁽¹⁾
<i>Gray used to depict estimated future values.</i> ⁽¹⁾ Additional positions are proposed to address programmatic initiatives, but subject to COVID-19 Pandemic impacts. ⁽²⁾ 2 Vacant positions added to assist with pump station inspections. ⁽³⁾ Excludes Public & Private Pump Station Inspections and Hot Spot Inspections to be performed by SSO Response & Prevention Program Staff in 2022 and beyond.											

Table 2: Prior, Current & Future Staffing

Workload data (by inspection category/assignments) for years 2017 to 2020 was reviewed and analyzed to estimate full time equivalent workforce requirements for a period of ten (10) years (2017-2027). A discussion of each inspection category, tabulated summary and assumptions (**Tables 3** and **4**) follow below.

Weeks/Year =	52 weeks		
Holidays =	2 weeks	Inspection days/week/FTE =	4 hours
Annual Leave =	2 weeks	Inspection hours/day/FTE =	6.5 per inspector
Sick Leave =	2 weeks	No. Inspections/year/FTE =	1008
Training =	2 week	Inspection hours/week/FTE =	26 Hours
		Inspection hours/year/FTE =	1,144 Hours
Annual Work =	44 weeks		

Table 3: Basis for Staffing Calculations

Year -->			2019	2020	2021	2022	2023	2024	2025	2026	2027
Routine GDO Inseptions -->			7,424	7,409	7,578	7,600	7,600	7,650	7,700	7,750	7,800
Hot Spot Inseptions -->			400	400	400	400	400	400	400	400	400
Status Confirmation Inseptions -->			1,349	743	1,094	985	887	887	887	887	887
Closed Confirmation Inseptions -->			3,563	3,798	2,877	2,599	2,340	2,340	2,340	2,340	2,340
Construction Inseptions -->			559	615	677	745	820	820	820	820	820
FOG Disposal Inseptions -->			32	64	116	116	116	116	116	116	116
eManifest Inseptions -->						500	500	500	500	500	500
Public Pump Stations Inseptions -->				1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Private Pump Stations Inseptions -->				1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
Inspection Category	Hours/Task/FTE	Classifications	2019	2020	2021	2022	2023	2024	2025	2026	2027
Routine	1.5	FOG Tech	5	0	0	10	10	10	10	10	10
	0.5	FOG Inspector	0	0	0	0	0	0	3	3	3
		Subtotal	5	0	0	10	10	10	13	14	14
Hot Spots & Complaints	6	FOG Tech	2	2	2	0	0	0	0	0	0
	6	FOG Inspector	2	2	2	0	0	0	0	0	0
		Subtotal	4	4	4	0	0	0	0	0	0
Status/Closed Confirmation	0.5	FOG Tech	0	0	0	0.4	0.4	0.4	0.4	0.4	0.4
	0.5	FOG Inspector	0	0	0	1.1	1.0	1.0	0	0	0
		Subtotal	0	0	0	1.6	1.4	1.4	0.4	0.4	0.4
Construction	0	FOG Tech	0	0	0	0	0	0	0	0	0
	4	FOG Inspector	2	2	2	3	3	3	3	3	3
		Subtotal	2	2	2	3	3	3	3	3	3
FOG Disposal	8	FOG Tech	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
		FOG Inspector	0	0	0	0	0	0	0	0	0
		Subtotal	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
eManifest	6	FOG Tech	0	0	0	2.6	2.6	2.6	2.6	2.6	2.6
		FOG Inspector	0	0	0	0	0	0	0	0	0
		Subtotal	0	0	0	2.6	2.6	2.6	2.6	2.6	2.6
Public Pump Stations	2	FOG Tech	0	3	3	0	0	0	0	0	0
	0	FOG Inspector	0	0	0	0	0	0	0	0	0
		Subtotal	0	3	3	0	0	0	0	0	0
Priavte Pump Stations	2	FOG Tech	0	3	3	0	0	0	0	0	0
	0	FOG Inspector	0	0	0	0	0	0	0	0	0
		Subtotal	0	3	3	0	0	0	0	0	0
Residential	4	FOG Tech	0	0	0	0	0	0	0	0	0
	4	FOG Inspector	0	0	0	0	0	0	0	0	0
		Subtotal	0	0	0	0	0	0	0	0	0
Total FOG Techs			7.9	8.3	8.3	13.8	13.8	13.9	13.9	14.0	14.0
Total Inspectors			4.1	4.2	4.5	3.7	3.9	3.9	6.2	6.3	6.3
Total Supervisors			2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0
Total Program Managers			0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
Grand Total			14.0	14.6	14.8	20.6	20.7	20.7	24.1	24.2	24.3

Table 4. 10 Years Staffing FTEs
***2017/2018 Not Shown**

2.4.1 Routine Inspections

The FCP included performing routine inspections of facilities with Grease Discharge Operating (GDO) permits starting after *September 30, 2019*. As of June 2021, there were approximately 7,578 GDO permitted facilities. The total number of GDO sites has been increasing yearly (refer to **Chart 3**). *With the COVID-19 Pandemic, it is unknown if this trend will continue or the number of FSEs will decrease. This is a significant variable that makes future planning difficult.*

Based on ongoing inspection efforts, the duration for an average routine inspection, factoring mobilization, transportation, inspection, and report preparation, the number of FOG technicians and inspectors required to accomplish routine annual inspections has been adjusted. Refer to **Tables 2, 3 and 4**.

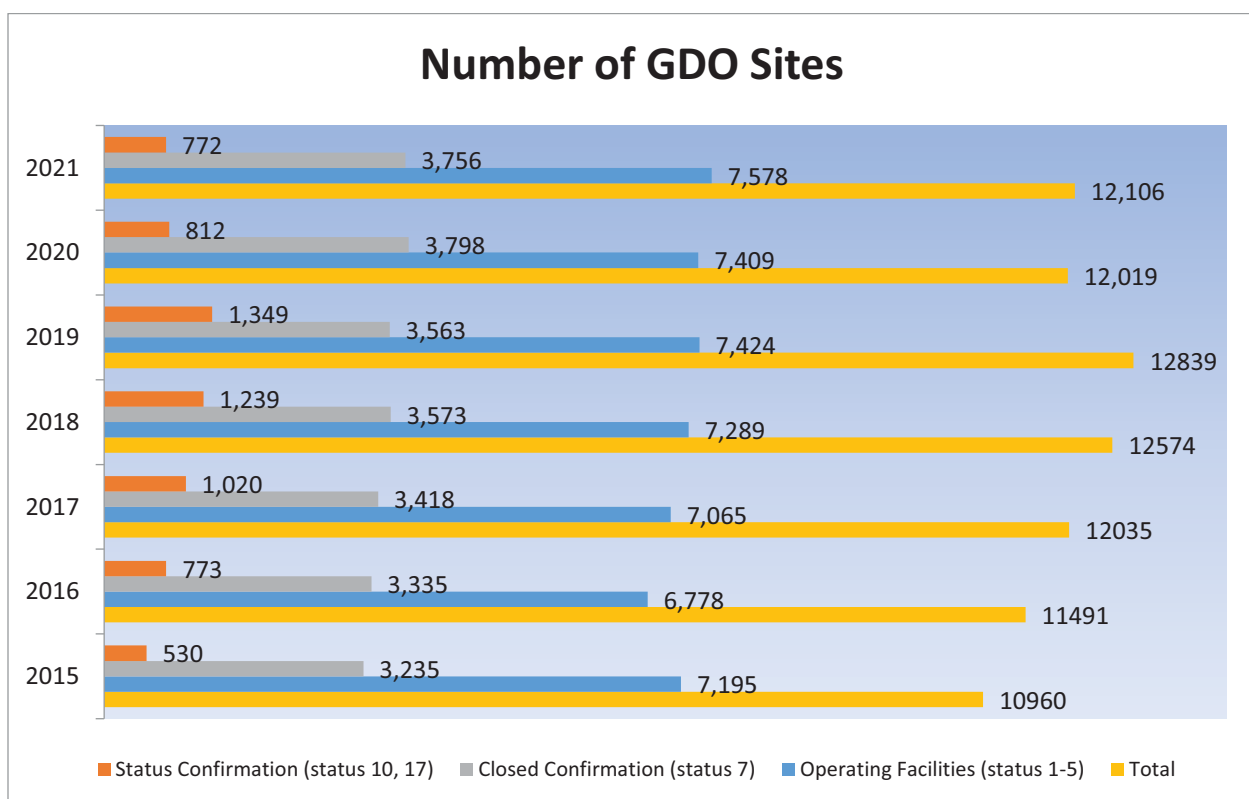


Chart 3: Number of Grease Discharge Operating Permits

2.4.2 Hot Spots & Complaints Inspections

Hot Spots inspections result from request from the Utilities to determine possible facilities causing FOG discharges in specific areas. Complaints inspections are conducted based on private and municipal complaints.

A new initiative that DERM is working on implementing is the use of real-time level monitoring systems (e.g., SmartLevel™/SmartCover). A pilot program was proposed and approved. This pilot would deploy up to ten (10) units to monitor key manholes in residential areas associated with FOG Hot Spots not being monitored by MDWASD (e.g., Municipal Utilities and residential areas). The status of the pilot program will be discussed in the next annual report.

As noted in the **Introduction** and in **Table 4** above, it is anticipated that the Hot Spots inspections will be performed by the SSO Response & Prevention Program in close coordination with the FOG Program supervisors and new Program Manager.

2.4.3 Construction Inspections

Starting March 2018, with the approval of the FCO, DERM began performing construction inspections to confirm compliance with approved plans. These inspections have proven to be invaluable in that they provide an opportunity to identify and correct problems during the construction phase and prior to final inspection and issuance of a Certificate of Occupancy (or Completion) being issued by the Municipal Building Department. Correcting problems after a CO or CC has been granted becomes extremely difficult, in part because a contractor has typically been paid in full and has demobilized from the site. A summary of construction inspections performed is presented below in **Chart 4**.

Number of Inspections per Year

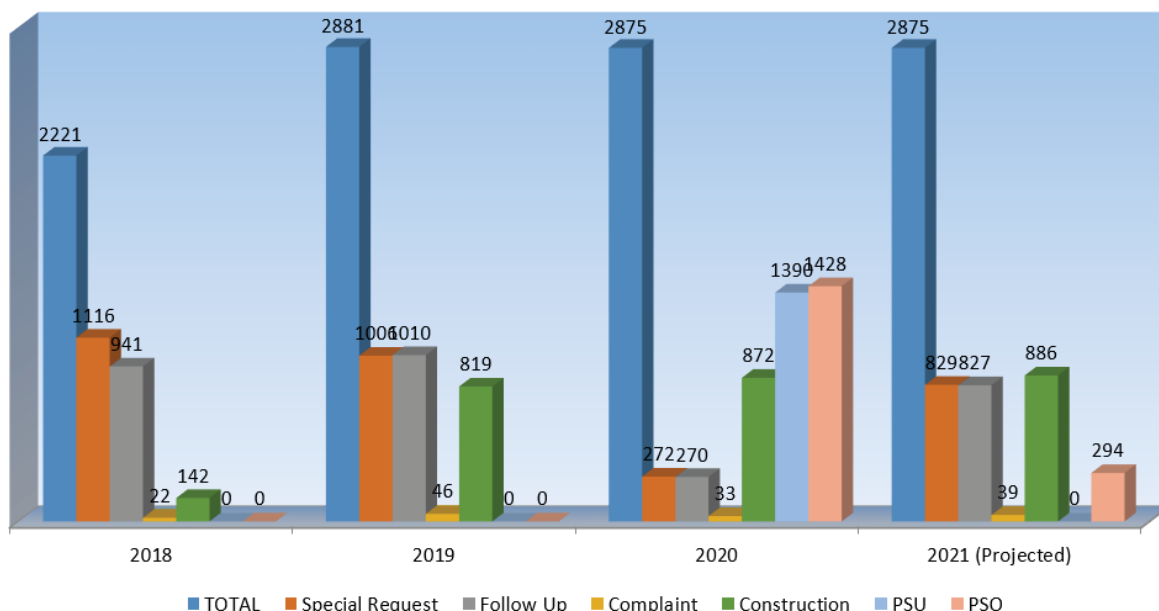


Chart 4: Number of Inspections per Year

2.4.4 Confirmation Inspections

Due to COVID-19 Pandemic challenges, the total number of facilities operating without a permit or closed (**Chart 3**) is an unknown. Starting in 2022, when routine annual inspections are initiated, these estimate will be reevaluated and actions taken accordingly. It is anticipated that the “Abeyance Program”, which sunsets on December 31, 2021, will facilitate the transition.

2.4.5 FOG Disposal Facility Inspections

To prevent/minimize comingling of FOG with septage, educate liquid waste haulers in the use of appropriate eManifest forms, and to improve the disposal process at the wastewater treatment plant, DERM started performing inspections of liquid waste haulers at the South District Wastewater Treatment Plant (SDWWTP) Hauled Waste Disposal facility in 2018. DERM is also coordinating with MDWASD in the hauled waste sampling program and disposal facility sampling.

2.4.6 Residential Areas Inspections

Some blockages caused by FOG reported by the utilities are in residential areas. DERM intended to initiate residential outreach in 2020 but due to the COVID-19 Pandemic this effort was postponed.

A new initiative that DERM is working on implementing is the use of real-time level monitoring systems (e.g., SmartLevel™/SmartCover). A pilot program was proposed and approved. This pilot would deploy up to ten (10) units to monitor key manholes in residential areas identified as being FOG hot spots. The status of the pilot program will be discussed in the next annual report.

2.4.7 eManifest Inspections

Liquid waste haulers and GDO facilities are required to submit information to DERM using the eManifest system. The system generates reports of potential violations that require review and inspection. Additionally, random sampling performed by MDWASD of hauled waste, in part as a deterrent to inappropriate waste disposal, requires follow up to determine the source location of waste material that exceeds local limits. These may include facilities served by septic system and industrial facilities.

2.5 FOG Construction Plans and Certificate of Use Reviews

An indicator of future increases (or declines) in the total of GDO facilities is the number of construction plans and certificate of use submittals. Construction plan submittals continue to increase as shown in **Chart 5** below. This would seem counterintuitive given the COVID-19 Pandemic; however, one possible factor is the improved coordination with Municipalities and the use of electronic plan submittals. The certificate of use applications show a more significant increase for 2020 (**Chart 6**). This too may be greatly influenced by the improved coordination and shift to an electronic review process making it less likely that a Municipality would skip the DERM (FOG) review process. How this increased activity will manifest itself in GDO permits is unknown.

The overall increase in reviews would suggest that the number of permitted facilities (GDOs) will continue to expand. It may also be influenced by greater FSE turnovers due to the COVID-19 Pandemic. However, as previously noted, the COVID-19 Pandemic’s short- and long-term impacts are significant unknowns that may require significant adjustments to staffing.



Chart 5: Total FOG Engineering Reviews (Overtown & PIC)

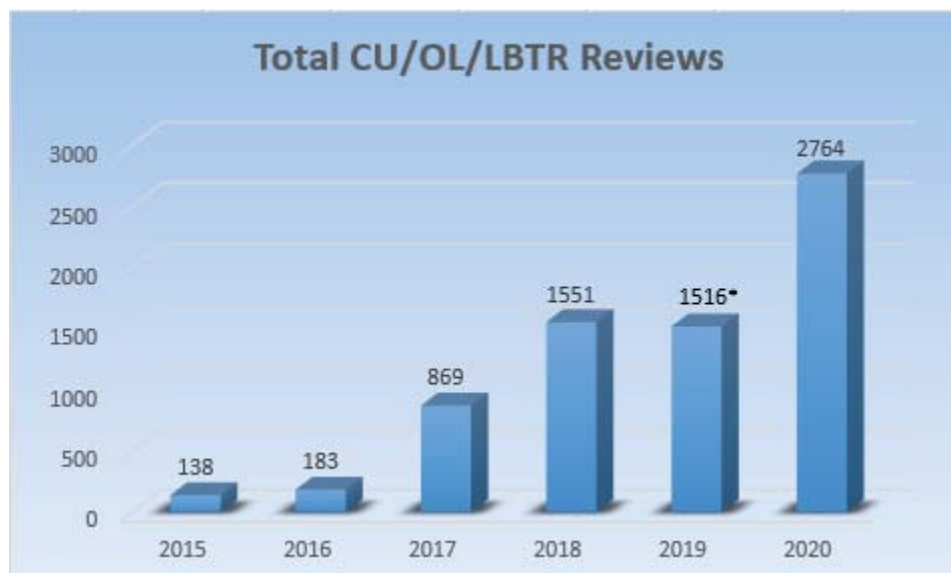


Chart 6: Occupational License, Certificate of Use Reviews (Overtown & PIC)
 *Not including West Dade

2.6 FOG Outreach and Education Events

DERM has focused on FOG outreach and education since 2014 and has exceeded the FCP target of six (6) stakeholder outreach events per year (refer to **Table 5**). As proposed in the FCP, DERM planned to expand the current MDWASD residential FOG outreach program by March 2020. The expansion was to include an educational campaign to address blockages caused by the combination of “flushable wipes” and FOG, which was one of the concerns expressed by the Utilities during the FOG Annual Review meeting held on June 18, 2019. Due to the COVID-19 Pandemic, this was not realized. It is anticipated that this effort will be reprogrammed for 2022 or 2023, depending on the COVID-19 Pandemic.

YEAR	TOTAL NUMBER	RESIDENTIAL OUTREACH	NON-RESIDENTIAL
2014	15	0	15
2015	20	0	20
2016	18	2	16
2017	12	0	12
2018	19	0	19
2019	19	2	17
2020	12	0	12

Table 5: Outreach Events

3. FOG Control Program Review Committee

The effectiveness of the FCP and FCO are continuously evaluated at the DERM Division Level (i.e., DERM Water and Wastewater Division). An annual review of the FCP effectiveness is performed by the FOG Control Program Review Committee (committee). The committee is composed of five members, each from one of the following Departments/Sections:

- DERM Water and Wastewater Division (formerly the Wastewater Permitting Section)
- DERM Director or Director's Designee
- RER Administration
- Miami-Dade County Water and Sewer Department, Wastewater Collection and Transmission Line Division
- Volume Sewer Customers (Municipal Utility)

Due to the COVID-19 Pandemic, the committee meeting for 2019 was postponed and required two separate virtual meetings. For 2020, input from stakeholders was requested during the 17th FOG Round Table held on June 23, 2021. The presentation and meeting materials are included in **Attachment 2**.

A summary of DERM's FOG Implementation Schedule progress is included in **Table 6**.

FOG Implementation Schedule		
Requirement	Requirement or Goal Date	Status
No Commingling of FOG and septage	<i>April 1, 2017</i>	Implemented
DERM to make training materials available for FOG generators (e.g., food service establishments), liquid waste transporters and FOG disposal facilities	<i>February 21, 2019</i>	Implemented
DERM to implement an electronic disposal manifest system, replacing the paper based system implemented April 1, 2015	<i>April 1, 2017</i>	Implemented
DERM to perform compliance assistance visits to active FSEs to promote awareness of the requirement to report electronically	<i>October 10, 2017</i>	Implemented
Require FSEs to utilize eManifest system (date the grease interceptor was pumped out and the name of the Liquid Waste Transporter).	<i>January 1, 2018</i>	Implemented
DERM to finalize procedures and checklist for Construction Inspections to be performed by RER.	<i>January 30, 2018</i>	Implemented
Guidelines for the Monthly Hot Spots Report will be made available to the Utilities.	<i>January 30, 2018</i>	Implemented
RER to perform FOG Control Device (grease interceptor) Construction Inspections for all plans approved under FOG 2.0 (i.e., all plans approved pursuant to Section 24-42.6, as enacted by County Ordinance).	<i>March 5, 2018</i>	Implemented
Monthly Hot Spots Report will be submitted by the Utilities per requirements in Section 24-42.6(13)	<i>March 5, 2018</i>	Implemented
Compliance Inspections for FSEs will be conducted annually.	<i>September 30, 2019</i>	Proposed 2022
To comply with Section 24-42.6(10)(iv) each FOG generator and FOG control device operator shall have one (1) trained person in the staff with knowledge in FOG reporting and maintenance requirements.	<i>January 1, 2019</i>	Training materials made available

Table 6: FOG Implementation Schedule

After reviewing and discussing performance measures (PMs) and key performance indicators (KPIs), with stakeholders, all were provided a form to provide input for the following questions:

1. What is Your No. 1 FOG Concern?
2. If you can change one thing, what would it be?
3. Are Existing PMs/KPIs good indicators?
4. Should we add New PM/KPI?
5. Other Comments?

As of June 28, 2021, no input has been provided by Stakeholders. Another attempt will be made before August 31, 2021 to get input, and if received, an updated report will be provided.

With regards to PMs/KPIs, RER Director's office had proposed including volume of hauled waste as a secondary KPI, as an indicator of FOG control devices pump out (cleaning) frequency compliance in the 2019 Committee Meeting. This indicator is currently tracked, and the trend will be included in the 2021 report due June 30, 2022.

Based on prior stakeholder recommendations, DERM implemented or will implement the following:

1. Improve front-end processes. The latest improvements implemented include an online system to intake and process Certificate of Use applications. This new system allows online submittal of Certificate of Use applications by customers and/or Municipalities and allows concurrent reviews by core and specialty reviewers (e.g., FOG engineers). ***It is anticipated that all processes will remain paperless.***
2. Implement the approved Pilot Program to utilize real-time level monitoring systems (e.g., SmartLevel™/SmartCover). This pilot program would deploy up to ten (10) units to monitor key manholes in residential and non-residential areas identified as being FOG Hot Spots. It is anticipated that it will be deployed in 2022.
3. DERM will continue to expand outreach using virtual platforms. The most recent event was the 17th FOG Round Table meeting held June 23, 2021.
4. DERM will further evaluate the need for additional FOG Inspectors, Technicians and Supervisors based on the workforce and workload analyses presented herein. This will include evaluating the impact of the COVID-19 Pandemic on the number of regulated facilities.

4. Proposed FCO and FCP Revisions

The FCO became effective in March 2018 and no changes are currently proposed. DERM will continue to monitor all areas of the FCO (e.g., design standards, plan review, construction inspections, operating permits, etc.) routinely to ascertain if any changes are required. Prior to making any changes to the FCO, which would require Board of County Commissioner approval, an Ordinance Revision Plan (ORP) will be submitted to FDEP and EPA for review and approval. The ORP would include, at a minimum, the regulatory and technical basis for the proposed changes and implementation schedule (e.g., public outreach, public comment, legislative timeframes, and code implementation timeline with change applicability and grandfathering criteria).

Based on working knowledge gained by implementing the FCP, some adjustments are proposed for the FCP. These include adding staff as noted previously for 2022.

DERM's inspection protocol for 2017 through 2019 included focusing primarily on Hot Spots and Complaints and starting to transition more staff resources to routine inspections in late 2019, with the goal of initiating annual inspections by September 30, 2019. Given the level of effort required to address Hot Spots and Complaints, expanding SDWWTP inspections, eManifest enforcement/inspections, construction inspections/re-inspections, and COVID-19 Pandemic, shifting resources to annual inspections was not possible in 2021. However, based on the projected workload for all inspection categories, additional staffing is required to meet all inspection goals for 2022 and beyond as previously discussed. It is anticipated that additional staffing will be available by 2022. However, due to the COVID-19 Pandemic and associated unknowns, it is difficult to accurately estimate the number of additional staff required long term.

5. Conclusions

DERM implemented the FCP to reduce FOG discharges to the WCTTS and thereby reduce FOG related SSOs. While the FCP and FCO have only recently been approved, DERM has made great progress improving key functions: Design/Review, Compliance/Construction Inspections, FOG Manifesting (i.e., eManifest) and Outreach.

DERM will continue to make progress implementing the FCP and enforcing the FCO, and when applicable, propose changes to the EPA and FDEP.

With the expansion of the SSO Response and Prevention Program, additional staffing will be available to perform routine FSE inspections and better address SSOs reductions.

ATTACHMENT 1

Sample of Utility Hot Spot Report

Accelerated FOG Maintenance (aFOG) Report
MDC Code Section 24-42.8(13)

Utility Name: City of Miami Beach
 Month Reported: 09/01/20
 Completed by: Kristina Nunez

Utility Code	Date of Maintenance mm/dd/yyyy	Maintenance Location (address)	ZIP code	X. Coordinate (Feet)	Y. Coordinate (Feet)	Causes ³	Maintenance Initial MH #	Maintenance Final MH #	Length of Pipe Cleaned (Feet)	Description of Maintenance Performed ¹	List of complete name of Chemicals added	Volumes Recovered for Disposal (gallons) ²	Liquid Waste TDRM Permit LW-ST #	Disposal Ticket No. ⁵	Maintenance Cost ⁶ Labor	Maintenance Cost ⁶ Equipment	Maintenance Cost ⁶ Materials/Supplies	Total Maintenance Cost	Event Id (DERM use only)
2	09/02/20	2954 N Bay Road	33140	939233.682	536266.577	FOG	SWR19851	SWR19851	25	Hydro Jetting		1,050	372	348465	\$ 302.46	\$ 235.30	\$	\$ 537.76	2440762954 N Bay Road
2	09/02/20	1365 Drexel Avenue	33139	941493.548	528527.473	FOG & Peps (FROG)	SWR21787	SWR21787	25	Hydro Jetting		1,050	372	348465	\$ 96.25	\$ 127.65	\$	\$ 222.90	2440761365 Drexel Avenue

NOTES
¹ Cleaning performed by utilities to prevent sanitary sewer overflows caused by FOG blockages in sanitary sewer systems, including but not limited to laterals, gravity mains, pump stations, and air release valves
² Gases
³ FOG
 FOG & Rsgs (FROG)
 FOG & Roots
 Other
⁴ Disposal Ticket No. - Must be reported from the Manifest form used to bring the waste to the disposal facility (Treatment plant). See sample form in the next TAB "Sample Disposal Manifest Form"
⁵ Disposal Ticket No. - Must be reported from the Manifest form used to bring the waste to the disposal facility (Treatment plant). See sample form in the next TAB "Sample Disposal Manifest Form"
⁶ Cost of accelerated FOG maintenance including labor, equipment, and materials. Labor shall include field and office staff

FOG & Rsgs (FROG)
FOG & Roots
Other
³ Disposal Ticket No. - Must be reported from the Manifest form used to bring the waste to the disposal facility (Treatment plant). See sample form in the next TAB "Sample Disposal Manifest Form"
 Hydro Jetting
 Pipe replaced due to grease solidified
 Other
 Other
⁴ Quantities of waste removed, recovered, collected or treated to prevent a sanitary sewer overflow
⁵ Disposal Ticket No. - Must be reported from the Manifest form used to bring the waste to the disposal facility (Treatment plant). See sample form in the next TAB "Sample Disposal Manifest Form"
⁶ Cost of accelerated FOG maintenance including labor, equipment, and materials. Labor shall include field and office staff

ATTACHMENT 2
17th FOG Round Table Meeting
Material

17th FOG Roundtable

MIAMI-DADE COUNTY

RER, DERM

WATER & WASTEWATER DIVISION

FOG CONTROL PROGRAM

Wednesday, June 23rd, 2021

10:00am – 12:00pm



DERM Presenters:

- Carlos Hernandez, Division Chief
- Carlos Lincheta, Engineer II
- Ashton Youngquist, Environmental Specialist Supervisor

Guest Presentations:

Raymond Nichols & Laurent Conde, *Hawk Measurement Systems*
Mario Rubines, *Schier Representative*

DERM Agenda:

- Opening remarks by Carlos Hernandez, P.E.
Division Chief, Water & Wastewater Division
 - FOG Control Program Annual Review
- Submittal Process
 - Plan Review
 - Occupational License/ BTR/ CU
 - Common Mistakes
- Who Qualifies for the Abeyance?
- Inspections
 - Construction Inspections
 - How to report in eManifest
 - Enforcement
- Q & A

FOG Control Program Annual Review

- Evaluate FOG inspection compliance and compliance assistance effectiveness in reducing wastewater collection and transmission system blockages and sanitary sewer overflows (SSOs).
- Discuss how Performance Measures (PMs) and Key Performance Indicators (KPIs) are measured, tracked, and evaluated.

PM	KPI	Method	DERM Target
Collection System SSOs Primarily Caused by FOG		MDWASD Monthly Report/Meeting	Annual Reduction
	Collection System Blockages Primarily Caused by FOG	MDWASD Monthly Report/Meeting	Annual Reduction
	Number of FOG Generators without FOG Control Device	FOG Inspections	Annual Reduction Goal is to have None by end of 2018
	FOG Inspection Frequency	FOG Inspections	100% Annually by 2019
	FOG Education (Residential)	Education	Six (6) Events Annually, to be fully implemented by March 4, 2020
	FOG Stakeholder Outreach (commercial/Industrial)	Outreach	Six (6) Events Annually

FOG Control Program Annual Review

1. What is your #1 FOG Concern?
2. If you can change one thing, what would it be?
3. Are the PM/KPI good indicators?
4. Should we add new PM/KPI?
5. Other Comments?

Send us your input: FOG@miamidade.gov

Submittal Process

Presented by:

Carlos Lincheta, Engineer II

LATEST NEWS AND UPDATES



- New FOG 2.5 Guidance Manual will be available online this week
- All plan, and certificate of use/occupational license submittals remain *electronic* only
- All FOG/Grease plans are being reviewed by OTV staff engineers
- Future job openings in the Water & Wastewater Division

Plan review intake via the E-municipal System

- Some municipalities have electronic plan intake processing
 - Miami
 - Miami Gardens
 - Cutler Bay
 - North Miami Beach
 - Doral
 - Miami Lakes
 - Homestead
- Applications from these cities must come directly to the County from the cities' existing electronic transfer protocols.



Web Portal for Plans, and Municipal Certificate of

Use Submittals & Tracking
Make sure that you are using Google Chrome as your web browser.

<https://www.miamidade.gov/Apps/RER/EPSPortal>

Miami-Dade Department of Regulatory & Economic Resources

Plan Status & Application Submittal Portal

Search status of Applications & Plans

Search a tracking or application number (such as C, M, N and UP process numbers).

Enter tracking or application

Use the Advanced Search feature to look for an application by address or folio number. Please note that the search results will be limited only to applications that require plan review. To search for all permits/applications by address or folio please visit the Building Permit Selection Menu.

Q Advanced Search

Building Permit-Related Applications & Plans Submissions

For submittals processed at the Miami-Dade Permitting & Inspection Center or Overtown Transit Village 2nd Floor: new building-related permit applications, plans, corrections, revisions, extensions, re-issuances, subsidiary permits, change of contractor.

Includes municipal building permit plan reviews that require County approvals (i.e. DERM, WASO, FIRE, etc.).

Building Permits

Submit for Review and Approval a Municipal Certificate of Use

Use this feature for Miami-Dade County reviews and approvals of Municipal Certificates of Use, Occupancy, Occupational, or any other business license that allows the establishment of a business at a location (Municipal CU).

This process includes reviews from the Department of Regulatory and Economic Resources Environmental Resource Management Division (DERM) and/or the Miami-Dade County Water and Sewer Department (WASD). Other reviews or permits may be required based on the location and nature of the business.

Municipal CU

Register an Account

Registering an account with miamidade.gov offers added benefits such as:

- Access to My Applications page that lists your current and previous submissions.
- Easily locate and track the status of your submissions.
- Pre-populate submissions with contact information from registered account.
- Allows you to submit reworks to a UP number.

My Applications

DERM Program & Permit Review Submissions

For submittals that require DERM program or permit review such as Class I-W permits, Tree permits, EQCB applications and more.

Not to be used for municipal building permit plan reviews that require County approvals (i.e. DERM, WASO, FIRE, etc.).

DERM Permits



Unincorporated Miami-Dade County Certificate of Use (CU)

At any point throughout the process described below, if there is information that is pending, each section will reach out to the applicant to obtain the required items.

- 1) CU application available at the link: <https://www.miamidade.gov/zoning/library/forms/certificate-of-use.pdf>
- 2) Zoning Staff will receive the CU application via email RER-CUINFO@miamidade.gov and enter the information into the Mainframe and issue a U#
- 3) Zoning staff will then forward the application with the U Number via email to DERM at cynthia.palermo@miamidade.gov.
- 4) DERM will review and if WASD is needed, will forward the application to WASD via email at NewBusinessSupvList@miamidade.gov
- 5) Once WASD has approved it, they will reply to DERM referencing the U#. **DERM review will be activated.**
- 6) **DERM staff will issue comments pertaining to their Section, and in the same email thread with the applicant, they will forward the email to FOG Review Engineers for FOG Review.**
- 7) **The FOG Review Engineer will respond back to the email thread to let the applicant know what documents are required to be sent back that FOG Reviewer in order to obtain the FOG Review approval.**
- 8) **Once FOG Review comments are satisfied, a FOG Review approval will be issued to the applicant, and DERM staff via an approval email.**
- 9) Once DERM has approved, they will notify Zoning referencing the U# and They will list any requirements/restrictions on the email.
- 10) Zoning will update the mainframe system and will notify the customer that the CU was approved, to pay fees and schedule the Zoning CU inspection. Zoning inspections will not be scheduled until further notice. Zoning staff will inform customer if a fire inspection is also required.
- 11) CU inspections to be performed by Neighborhood Compliance Staff.



Common Mistakes During Plan Submittal



Permit Application/Document Submission

Please, upload only one set of plans per submission. One set of plans can be associated with a single application or multiple applications.

First Name *

Last Name *

Email *

Phone *

Project Address (full address, intersection, or folio)

Plan Type

New Application

+ Add Files... No files selected

Document	Size	Type	Status
Upload Application			

Clear

Start Over

Instructions

General Instructions and Guidelines

Please, review these instructions and guidelines before completing the Permit Application Submission Form. **Ensure that you are using Google Chrome as your web browser.** If you have questions or encounter problems using this new feature, send an email to PERM@HighlandCounty.com.

All Forms/Applications/Checklists/Guidelines are available here

- For a new submittal of permit application(s) and plans please have the following ready
 - Permit application(s) with required signatures and notarization
 - Contact sheet
 - Fee sheet if required
 - Other required documents such as fence addendum, pool barrier form, etc.
 - Plans and supporting documentation meeting established Concurrent Review Guidelines
 - All drawings and supporting documents in the plan package must be in PDF format.
 - PDF files shall have only one layer (flattened) without any embedded objects.
 - PDF files shall not be encrypted or password protected.
 - Documents should be scanned at no greater than 300 dpi.
 - Adobe Portfolio PDF types are not accepted.
 - File naming and size limit
 - The file name shall not contain:
 - Any leading or trailing spaces.
 - Special characters such as parentheses "()", double periods ".", question marks "?", etc.
 - The discipline is the primary method of classification for file names. Each file shall contain the discipline code as the first letter of the file name, followed by a user-definable numerical field that closely corresponds to the sheet sequence number.
 - For example A-101
 - For reworks the corrected files should be named the same as the original with the date of the rework. Only submit the sheets requiring corrections (do not resubmit the entire plan set).
 - For example A-101-3-28-2020
 - The total upload for the plan set should not exceed 4 GB
 - Plan must be submitted as one PDF per plan sheet
 - Calculations, Notes, Application and Supporting Documents can be submitted as multiple page PDFs
- ### Completing the Permit Application Submission form and uploading documents
- Complete the application submission form. Please ensure that a valid phone number and email address are provided. A Permit Occupancy Representative will contact you to provide your process number or to clarify your submittal.
 - Choose files for upload.
 - Ensure you have selected all the files you intend to load in this permit application. To select multiple files that are not grouped together, hold the Ctrl key while clicking each of the files you want to select.
 - Select the Submit button and wait for the upload to be completed. (Note: the speed of the upload depends on your internet connection, network traffic, and file size.)
 - Once the application is submitted, you will receive a confirmation number along with an email confirmation.
 - You will receive a confirmation email
 - A Permit Occupancy Representative will contact you to provide you with a process number or to discuss your submittal.

Common Mistakes During Plan Submittal

Not Reading The Instructions

The instructions screen provides all information for the:

- Required forms
- Links to the required forms
- PDF formatting
- Sheet naming
- Size limitations

Instructions

General Instructions and Guidelines

Please, review these instructions and guidelines before completing the Permit Application Submission form. **Ensure that you are using Google Chrome as your web browser.** If you have questions or encounter problems using this new feature, send an email to [\(RER\) Permit Application Submissions](#).

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 - a. Permit application(s) with required signatures and notarization
 - b. Contact sheet
 - c. Fee sheet if required
 - d. Other required documents such as fence addendum, pool barrier form, etc.
2. Plans and supporting documentation meeting established Concurrent Review Guidelines
 - a. All drawings and supporting documents in the plan package must be in PDF format.
 - b. PDF files shall have only one layer (flattened) without any embedded objects.
 - c. PDF files shall not be encrypted or password protected.
 - d. Documents should be scanned at no greater than 300 dpi.
 - e. Adobe Portfolio PDF types are not accepted.
3. File naming and size limit
 - a. The file name shall not contain:
 - i. Any leading or trailing spaces.
 - ii. Special characters such as: parenthesis "(", ")", double periods "..", question marks "?", etc.
 - b. The discipline is the primary method of classification for file names. Each file shall contain the discipline code as the first letter of the file name, followed by a user-definable numerical field that closely corresponds to the sheet sequence number.
 - i. For example A-101
 - c. For reworks the corrected files should be named the same as the original with the date of the rework. Only submit the sheets requiring corrections (do not resubmit the entire plan set).
 - i. For example A-101-3-26-2020
 - d. The total upload for the plan set should not exceed **4 GB**
 - e. Plan must be submitted as **one PDF** per plan sheet
 - f. Calculations, NOAs, Application and Supporting Documents can be submitted as multiple page PDFs

Completing the Permit Application Submission form and uploading documents

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2. Choose files for upload.
3. Ensure you have selected all the files you intend to load in this permit application. To select multiple files that are not grouped together, hold the Ctrl key while clicking each of the files you want to select.
4. Select the Submit button and wait for the upload to be completed. (Note: the speed of the upload depends on your internet connection, network traffic, and file size.)
5. Once the application is submitted, you will receive a confirmation number along with an email confirmation.
6. You will receive a confirmation e-mail
7. A Permit Occupancy Representative will contact you to provide you with a process number or to discuss your submittal.



Providing The Required Completed Forms

Instructions

General Instructions and Guidelines

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All Forms/Applications/Checklists/Guidelines are available [here](#)

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 - Fee sheet if required
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 - For example A-101
- For reworks the corrected files should be named the same as the original with the date of the rework. Only submit the sheets requiring corrections (do not resubmit the entire plan set).
 - For example A-101-3-26-2020
- The total upload for the plan set should not exceed **4 GB**
- Plan must be submitted as **one PDF** per plan sheet
- Calculations, NOAs, Application and Supporting Documents can be submitted as multiple page PDFs

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- Select the Submit button and wait for the upload to be completed. (Note: the speed of the upload depends on your internet connection, network traffic, and file size.)
- Once the application is submitted, you will receive a confirmation number along with an email confirmation.
- You will receive a confirmation e-mail
- A Permit Occupancy Representative will contact you to provide you with a process number or to discuss your submittal.

CONTACT INFORMATION FOR PERMIT APPLICATION

Miami-Dade Department of Regulatory and Economic Resources

FIRST NAME (print clearly)	LAST NAME (print clearly)
MOBILE PHONE	OFFICE HOME PHONE
<small>EMAIL (required so you can be notified on the status of your plan)</small>	
<small>COMMENTS (If you are submitting a municipal plan, please provide the municipal process number(s) and ensure the municipal application is in the set of plans.)</small>	

PLANS (check all that apply)

Please indicate if plans qualify for the following expedited plan reviews:

<input type="checkbox"/> GOVT PROJECT	<input type="checkbox"/> GREEN BLDG* (new construction only)	<input type="checkbox"/> PACE PROJECT
<input type="checkbox"/> ADJUTANT GENERAL HOUSING*	<input type="checkbox"/> ECONOMIC SIGNIFICANCE*	<input type="checkbox"/> CONCERGE

*Pursuant to Ordinance 99-140, Ordinance 08-215, and Ordinance 08-217. Project may have additional requirements.

REQUESTED PLAN REVIEWS (check all that apply for rework only)

<input type="checkbox"/> ALL	<input type="checkbox"/> BLDG	<input type="checkbox"/> ELEC	<input type="checkbox"/> FIRE	<input type="checkbox"/> ROOF
<input type="checkbox"/> LANDSCAPING	<input type="checkbox"/> MECH	<input type="checkbox"/> PLUM	<input type="checkbox"/> PWS	<input type="checkbox"/> SIGN
<input type="checkbox"/> STRU	<input type="checkbox"/> ZONR	<input type="checkbox"/> WASH	<input type="checkbox"/> WPF	<input type="checkbox"/> SHOP DRAWING
<input type="checkbox"/> DERM CORE	<input type="checkbox"/> DERM AIR	<input type="checkbox"/> DERM AIRPORT	<input type="checkbox"/> DERM ASBESTOS	<input type="checkbox"/> DERM COASTAL
<input type="checkbox"/> DERM CEAS	<input type="checkbox"/> DERM INDUSTRIAL	<input type="checkbox"/> DERM POLLUT	<input type="checkbox"/> DERM PRE-TREATMENT	<input type="checkbox"/> DERM FLOOD
<input type="checkbox"/> DERM TREES	<input type="checkbox"/> DERM WATER TREATMENT	<input type="checkbox"/> DERM WETLANDS	<input type="checkbox"/> PERMIT BY AFFIDAVIT CHECK	<input type="checkbox"/> DERM SOLID WASTE
<input type="checkbox"/> DCHVRS				<input type="checkbox"/> SHORT TERM EVENT AFFIDAVIT CHECK

OPTIONAL PLAN REVIEWS (check all that apply)

<input type="checkbox"/> BLDG	<input type="checkbox"/> ELEC	<input type="checkbox"/> MECH	<input type="checkbox"/> PLUM	<input type="checkbox"/> STRU
-------------------------------	-------------------------------	-------------------------------	-------------------------------	-------------------------------

OPR DERM INITIAL REVIEWS (check all that apply)

DERM SPECIALTY (New will be notified after case review to complete for additional fees)

OPR DERM RERWORK (OPR for specialty only available at PHC)

<input type="checkbox"/> CEAS	<input type="checkbox"/> ASBESTOS	<input type="checkbox"/> COASTAL	<input type="checkbox"/> FLOOD	<input type="checkbox"/> TRAINING & DRAINAGE
<input type="checkbox"/> INDUSTRIAL	<input type="checkbox"/> WETLAND	<input type="checkbox"/> PRE-TREATMENT	<input type="checkbox"/> CORE	<input type="checkbox"/> CHOOD

FOR OFFICE USE ONLY

To be completed by Permit and Occupancy Representatives or Plan Processing Specialists

APPLICATION DATE	CLERK NAME	ARRIVAL TIME
PROCESS NUMBER	PROCESS NUMBER	PROCESS NUMBER
<input type="checkbox"/> RE-ISSUE	<input type="checkbox"/> PLAN REVISION	<input type="checkbox"/> RERWORK
		<input type="checkbox"/> SHOP DRAWING

Herbert S. Saffel Permitting and Inspection Center, 11805 SW 26th Street, Miami, Florida 33157-3474 | 786-315-3100 | miamidade.gov/permits

MIAMI-DADE COUNTY

Providing The Required Completed Forms

Instructions

General Instructions and Guidelines

Please review these instructions and guidelines before completing the Permit Application Submission form. Ensure that you are using **Google Chrome** as your web browser. If you have questions or encounter problems using this new feature, send an email to: (REDACTED) Permit Application Submissions.

All Forms/Applications/Checklists/Guidelines are available here:

1. For a new submittal of permit application(s) and plans please have the following ready:

a. **Submit applications(s) with required signatures and notarization**

b. Contact sheet

c. Fee sheet if required

d. Other required documents such as fence addendum, pool barrier form, etc.

2. Plans and supporting documentation meeting established Concurrent Review Guidelines

a. All drawings and supporting documents in the plan package must be in PDF format.

b. PDF files shall have only one layer (flattened) without any embedded objects.

c. PDF files shall not be encrypted or password protected.

d. Documents should be scanned at no greater than 300 dpi.

e. Adobe Portable PDF types are not accepted.

3. File naming and size limit

a. The file names shall not contain:

i. Any leading or trailing spaces.

ii. Special characters such as: parentheses "()", double periods "..", question marks "?", etc.

b. The discipline is the primary method of classification for file names. Each file shall contain the discipline code as the first letter of the file name, followed by a user-definable numerical field that closely corresponds to the sheet sequence number.

i. For example A-101

c. For rework the corrected files should be named the same as the original with the date of the rework. Only submit the sheets requiring corrections (do not resubmit the entire plan set).

i. For example A-101-3-26-2020

d. The total upload for the plan set should not exceed **4 GB**

e. Plan must be submitted as **new PDF** per plan sheet

f. Calculations, Notes, Application and Supporting Documents can be submitted as multiple page PDFs

Completing the Permit Application Submission form and uploading documents

1. Complete the application submission form. Please ensure that a valid phone number and email address are provided. A Permit Occupancy Representative will contact you to provide your process number or to clarify your submittal.

2. Choose files for upload.

3. Ensure you have selected all the files you intend to load in this permit application. To select multiple files that are not grouped together, hold the **Ctrl** key while clicking each of the files you want to select.

4. Select the **Submit** button and wait for the upload to be completed. (Note: the speed of the upload depends on your internet connection, network traffic, and file size.)

5. Once the application is submitted, you will receive a confirmation number along with an email confirmation.

6. You will receive a confirmation e-mail

7. A Permit Occupancy Representative will contact you to provide you with a process number or to discuss your submittal.

NOTE: ALL SHEETS MUST BE REVIEWED
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
11805 SW 26th Street Coral Way • Miami, Florida 33175-3474 • (786) 315-3000
PERMIT APPLICATION

Job Address Parcel No. Lot Subdivision Block Plat	Contractor No. Contractor Name Contractor Address City State Zip	Current use of property Description of Work Sq. Ft. Hours	Owner Address City State Zip Phone Last four (4) digits of Owner's Social Security No.
Location of Improvement Meters and boundary Subdivision Block Plat	Contractor Information Contractor No. Contractor Name Contractor Address City State Zip	Current use of property Description of Work Sq. Ft. Hours	Owner's Name Address City State Zip Phone
Type of Improvements New Construction or Alteration Reconstruction of Structure Enclosure Repair Hazardous Waste	Review Status 1 <input type="checkbox"/> New Construction or Alteration 2 <input type="checkbox"/> Reconstruction of Structure 3 <input type="checkbox"/> Enclosure 4 <input type="checkbox"/> Repair 5 <input type="checkbox"/> Hazardous Waste	Permit Type 1 <input type="checkbox"/> General 2 <input type="checkbox"/> Electrical 3 <input type="checkbox"/> Mechanical 4 <input type="checkbox"/> Plumbing 5 <input type="checkbox"/> Fire 6 <input type="checkbox"/> Other	Permit Fee 1 <input type="checkbox"/> \$100 2 <input type="checkbox"/> \$200 3 <input type="checkbox"/> \$300 4 <input type="checkbox"/> \$400 5 <input type="checkbox"/> \$500 6 <input type="checkbox"/> \$600 7 <input type="checkbox"/> \$700 8 <input type="checkbox"/> \$800 9 <input type="checkbox"/> \$900 10 <input type="checkbox"/> \$1000
Person to Pick up Plans Name Address City State Zip Phone	Permit Fee 1 <input type="checkbox"/> \$100 2 <input type="checkbox"/> \$200 3 <input type="checkbox"/> \$300 4 <input type="checkbox"/> \$400 5 <input type="checkbox"/> \$500 6 <input type="checkbox"/> \$600 7 <input type="checkbox"/> \$700 8 <input type="checkbox"/> \$800 9 <input type="checkbox"/> \$900 10 <input type="checkbox"/> \$1000	Permit Type 1 <input type="checkbox"/> General 2 <input type="checkbox"/> Electrical 3 <input type="checkbox"/> Mechanical 4 <input type="checkbox"/> Plumbing 5 <input type="checkbox"/> Fire 6 <input type="checkbox"/> Other	Permit Fee 1 <input type="checkbox"/> \$100 2 <input type="checkbox"/> \$200 3 <input type="checkbox"/> \$300 4 <input type="checkbox"/> \$400 5 <input type="checkbox"/> \$500 6 <input type="checkbox"/> \$600 7 <input type="checkbox"/> \$700 8 <input type="checkbox"/> \$800 9 <input type="checkbox"/> \$900 10 <input type="checkbox"/> \$1000

NOTE: ALL SHEETS MUST BE REVIEWED
MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
11805 SW 26th Street Coral Way • Miami, Florida 33175-3474 • (786) 315-3000
**APPLICATION FOR MUNICIPAL PERMIT APPLICANTS
THAT REQUIRE PLAN REVIEW FROM MIAMI-DADE FIRE RESCUE
AND/OR ENVIRONMENTAL SERVICES**

NOTE: ALL SHEETS MUST BE REVIEWED
MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
11805 SW 26th Street Coral Way • Miami, Florida 33175-3474 • (786) 315-3000
**APPLICATION FOR MUNICIPAL PERMIT APPLICANTS
THAT REQUIRE PLAN REVIEW FROM MIAMI-DADE FIRE RESCUE
AND/OR ENVIRONMENTAL SERVICES**

Job Address Parcel No. Lot Subdivision Block Plat	Contractor No. Contractor Name Contractor Address City State Zip	Current use of property Description of Work Sq. Ft. Hours	Owner Address City State Zip Phone Last four (4) digits of Owner's Social Security No.
Location of Improvement Meters and boundary Subdivision Block Plat	Contractor Information Contractor No. Contractor Name Contractor Address City State Zip	Current use of property Description of Work Sq. Ft. Hours	Owner's Name Address City State Zip Phone
Type of Improvements New Construction or Alteration Reconstruction of Structure Enclosure Repair Hazardous Waste	Review Status 1 <input type="checkbox"/> New Construction or Alteration 2 <input type="checkbox"/> Reconstruction of Structure 3 <input type="checkbox"/> Enclosure 4 <input type="checkbox"/> Repair 5 <input type="checkbox"/> Hazardous Waste	Permit Type 1 <input type="checkbox"/> General 2 <input type="checkbox"/> Electrical 3 <input type="checkbox"/> Mechanical 4 <input type="checkbox"/> Plumbing 5 <input type="checkbox"/> Fire 6 <input type="checkbox"/> Other	Permit Fee 1 <input type="checkbox"/> \$100 2 <input type="checkbox"/> \$200 3 <input type="checkbox"/> \$300 4 <input type="checkbox"/> \$400 5 <input type="checkbox"/> \$500 6 <input type="checkbox"/> \$600 7 <input type="checkbox"/> \$700 8 <input type="checkbox"/> \$800 9 <input type="checkbox"/> \$900 10 <input type="checkbox"/> \$1000
Person to Pick up Plans Name Address City State Zip Phone	Permit Fee 1 <input type="checkbox"/> \$100 2 <input type="checkbox"/> \$200 3 <input type="checkbox"/> \$300 4 <input type="checkbox"/> \$400 5 <input type="checkbox"/> \$500 6 <input type="checkbox"/> \$600 7 <input type="checkbox"/> \$700 8 <input type="checkbox"/> \$800 9 <input type="checkbox"/> \$900 10 <input type="checkbox"/> \$1000	Permit Type 1 <input type="checkbox"/> General 2 <input type="checkbox"/> Electrical 3 <input type="checkbox"/> Mechanical 4 <input type="checkbox"/> Plumbing 5 <input type="checkbox"/> Fire 6 <input type="checkbox"/> Other	Permit Fee 1 <input type="checkbox"/> \$100 2 <input type="checkbox"/> \$200 3 <input type="checkbox"/> \$300 4 <input type="checkbox"/> \$400 5 <input type="checkbox"/> \$500 6 <input type="checkbox"/> \$600 7 <input type="checkbox"/> \$700 8 <input type="checkbox"/> \$800 9 <input type="checkbox"/> \$900 10 <input type="checkbox"/> \$1000



Common Mistakes During Plan Submittal

- Payment of upfront fees to begin the review process

Completing the Application

Your application was successfully created.

Tracking Number: **MUA20020077**

Process Number: **MUA20020077**

You have pending fees. If you wish to pay now please visit **Payupfront Fee**

Please save this confirmation for your records. If you have any questions or concerns, please email (RER) CU Application Submissions.

[New certificate of use request](#) [Return Home](#)

- When the application has been “successfully created.” The system will display the Tracking and Process numbers.
- An email confirmation with further details on how to track the status of the application will be sent to the business owner and application contact.
- A link will be provided to the ePayment site to pay the Upfront Fees.

The review of the application cannot begin until the Upfront Fees have been paid.



Common Mistakes During Plan Submittal

- Trade activation, and activating reworks

The screenshot shows a software interface for permit applications. At the top, the user is identified as 'Jose Martinez'. The main area displays application details for 'JOSE MARTINEZ' with a status of 'Rework'. A green button labeled 'Start Import/Rework' is highlighted with a red arrow. Below this, there are sections for 'Reviews' (with a 'Review' button), 'Disposition' (with a 'PC-CUSTOMER INTAKE' button), and 'Instructions'. The 'Instructions' section contains a list of guidelines for plan submissions, including requirements for file formats, naming conventions, and content restrictions.

Applications

Process: LPK00000302 Print Job Copy

Submission ID: WES000383

Connection For Rework: Import Errors NO EXPEDITE

Contact Name: JOSE MARTINEZ
Municipality: Rework
Tracking Date: 7/20/2020 3:48 PM

Submital Type: Electronic
Last Notified: 7/20/2020 4:57 PM / Email
Plan Revision: Name
Storage Location: Name

Instructions

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 - a. All drawings and supporting documents in the plan package must be in PDF format.
 - b. PDF files shall have only one layer (flatseed) without any embedded objects.
 - c. PDF files shall NOT be encrypted or password protected.
 - d. Documents should be scanned at no greater than 300 dpi.
 - e. Adobe Portable PDF types are not accepted.
2. File naming and size limit
 - a. The file name shall not contain:
 - i. Any leading or trailing spaces.
 - ii. Special characters such as parentheses "()", double periods ".", question marks "?", etc.
 - b. The discipline is the primary method of classification for file names. Each file shall contain the discipline code as the first letter of the file name, followed by a user-definable numerical field that closely corresponds to the sheet sequence number.
 - i. For example A-101.
 - c. For reworks the corrected files should be named the same as the original with the date of the rework. Only submit the sheets requiring corrections (do not resubmit the entire plan set).
 - i. For example A-101-2-28-2320
 - d. The total upload for the plan set should not exceed 4GB
 - e. Plans must be submitted as one PDF per plan sheet

Select the Start Import/Rework button



Common Mistakes During Plan Submittal

- Revisions to previously approved plans start at the City/Municipal Building Department, and are sent for DERM Plan review via e-municipal system, or customer upload as previously mentioned



Common Mistakes During Plan Submittal

- Complete the application submission form. Please ensure that a valid phone number and email address are provided. A Permit Occupancy Representative will contact you to provide your process number or to clarify your submittal.
- If you have questions or encounter problems using this new feature, send an email to RER-PAS@miamidade.gov at [RER-PAS@miamidade.gov](https://www.miamidade.gov/permits/submit)

RER-PAS@miamidade.gov

Common Mistakes During CU/OL Submittal

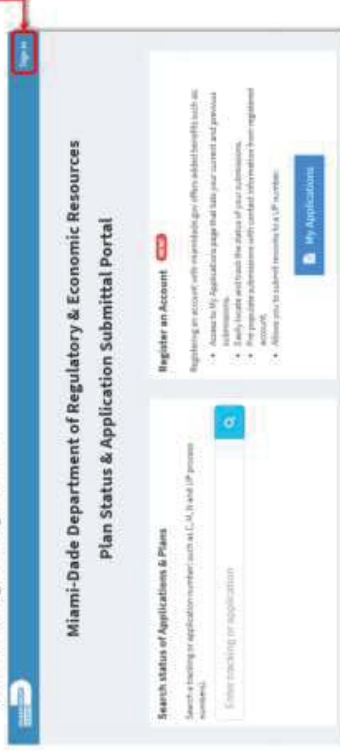
Registering an account

- Hiialeah cases

Getting Ready to Submit

A miamidade.gov account is required to apply for the Review of a Municipal Certificate of Use.

- If you have a miamidade.gov account, you can sign in using the link on the upper right-hand corner of the **Plan Status & Application Submittal Portal**.
 - If you use other Miami-Dade County applications, such as **MeetQ**, you already have a miamidade.gov account.
 - If you don't currently have a miamidade.gov account, you can register after clicking the **Sign In** link.



Not registered with miamidade.gov?

If you are not registered with miamidade.gov, you must sign up for a miamidade.gov account.

- Step 1**
Select sign up for a miamidade.gov account.



- Step 2**
Complete the registration process.



- Step 3**
After completion, click 'Confirm' in the confirmation email to access the portal.



Common Mistakes During CU/OL Submittal

Using the Import/Rework Function

- Trade activation, and activating reworks

1 Upload Files 2 Reviews to rework 3 Confirm

← Back

Next

Instructions

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 - b. PDF files shall have only one layer (flattened) without any embedded objects.
 - c. PDF files shall not be encrypted or password protected.
 - d. Documents should be scanned at no greater than 300 dpi.
 - e. Adobe Portfolio PDF types are not accepted.

Please select the REVIEWS needed for rework (check all that apply).

Review	Disposition
<input checked="" type="checkbox"/> DERM CU CORE	<input checked="" type="checkbox"/> R

6. Place a checkmark in the boxes next to all the review areas that you would like to route your corrections to.
7. Click the blue **Next** button.

Common Mistakes During CU/OL Submittal:

Existing FOG Control Device Condition Assessment Reports

- Condition Assessment can be completed only by a Florida licensed P.E., or licensed plumber
- All attachments must be provided

CONDITION ASSESSMENT CERTIFICATION
The Condition Assessment shall be certified by a Professional Engineer or Licensed Plumber

Company Name : _____ Email: _____
Company Address: _____
 Professional Engineer Licensed Plumber License No.: _____ Phone No.: _____
Name: _____ Date: _____
Signature: _____

By signing above, I certify that I performed the assessment and visually inspected the tanks listed below.

Required Attachments

1) Pump-out receipt 2) Disposal Facility Ticket 3) FOG Waste Manifest
 4) Photos of FCD Location 5) Photos of FCD inside walls 6) Photos of Inlet and Outlet Manholes



Common Mistakes During CU/OL Submittal:

Providing complete, and consistent information:

- Completing the GDO permit application, Condition Assessment report
- Consistent information on GDO permit application and Assessment,
- Consistent information (seating, square footage, use, etc.) shown on GDO permit application, and Certificate of Use application

Accessing DERM Electronic Records

- Access to public records regarding: GDO permits, inspection reports, recent records of plan approval, email correspondences, notices of violation etc. can be found at the link below providing address, folio number, or GDO permit number

<https://ecmrer.miamidadade.gov/hpi/search>

Search

232230020130

Prev 1 out of 6 Next

✓ (0)

25/Page Filter

Folio	Case Number	Facility Name	Document Type	Date	House Number	Street Direction	Street Name	Street Type
<input type="checkbox"/>	0232230020130	MIAMI BEACH R...	INSPECTION RE...	05-25-2004	4833		COLLINS	AVE
<input type="checkbox"/>	0232230020130	MIAMI BEACH R...	OPERATING PE...	07-15-2004	4833		COLLINS	AVE
<input type="checkbox"/>	0232230020130	MIAMI BEACH R...	OPERATING PE...	06-03-2004	4833		COLLINS	AVE
<input type="checkbox"/>	0232230020130	MIAMI BEACH R...	CORRESPONDE...	05-13-2004	4833		COLLINS	AVE
<input type="checkbox"/>	0232230020130	MIAMI BEACH R...	OPERATING PE...	02-12-2013	4833		COLLINS	AVE
<input type="checkbox"/>	0232230020130	MIAMI BEACH R...	OPERATING PE...	12-06-2010	4833		COLLINS	AVE
<input type="checkbox"/>	0232230020130	MIAMI BEACH R...	MISC. DOCUMEN...	09-14-2000	4833		COLLINS	AVE
<input type="checkbox"/>	0232230020130	MIAMI BEACH R...	OPERATING PE...	06-20-2003	4833		COLLINS	AVE
<input type="checkbox"/>	0232230020130	MIAMI BEACH R...	OPERATING PE...	06-22-2007	4833		COLLINS	AVE
<input type="checkbox"/>	0232230020130	MIAMI BEACH R...	MISC. DOCUMEN...	11-07-2001	4833		COLLINS	AVE
<input type="checkbox"/>	0232230020130	MIAMI BEACH R...	MISC. DOCUMEN...	01-11-2002	4833		COLLINS	AVE

MIAMI-DADE COUNTY

Revised Abeyance of Requirements under MDC Section 24-42.6



Carlos A. Gimenez, Mayor

Department of Regulatory and Economic Resources
Environmental Resources Management
701 NW 1st Court, 4th Floor
Miami, Florida 33136-3912
T 305-372-6754 F 305-372-6759
miamidade.gov

VIA ELECTRONIC CORRESPONDENCE

September 22, 2020

CCN: 63385
File No: 8.DC.20.52

Chief, Environmental Enforcement Section
Environment and Natural Resources Division
Attn: Tom Mariani
U.S. Department of Justice
P.O. Box 7611
Washington, D.C. 20044-7611
RE: DOJ No. 90-5-1-1-4022/1
Tom.Mariani@usdoj.gov

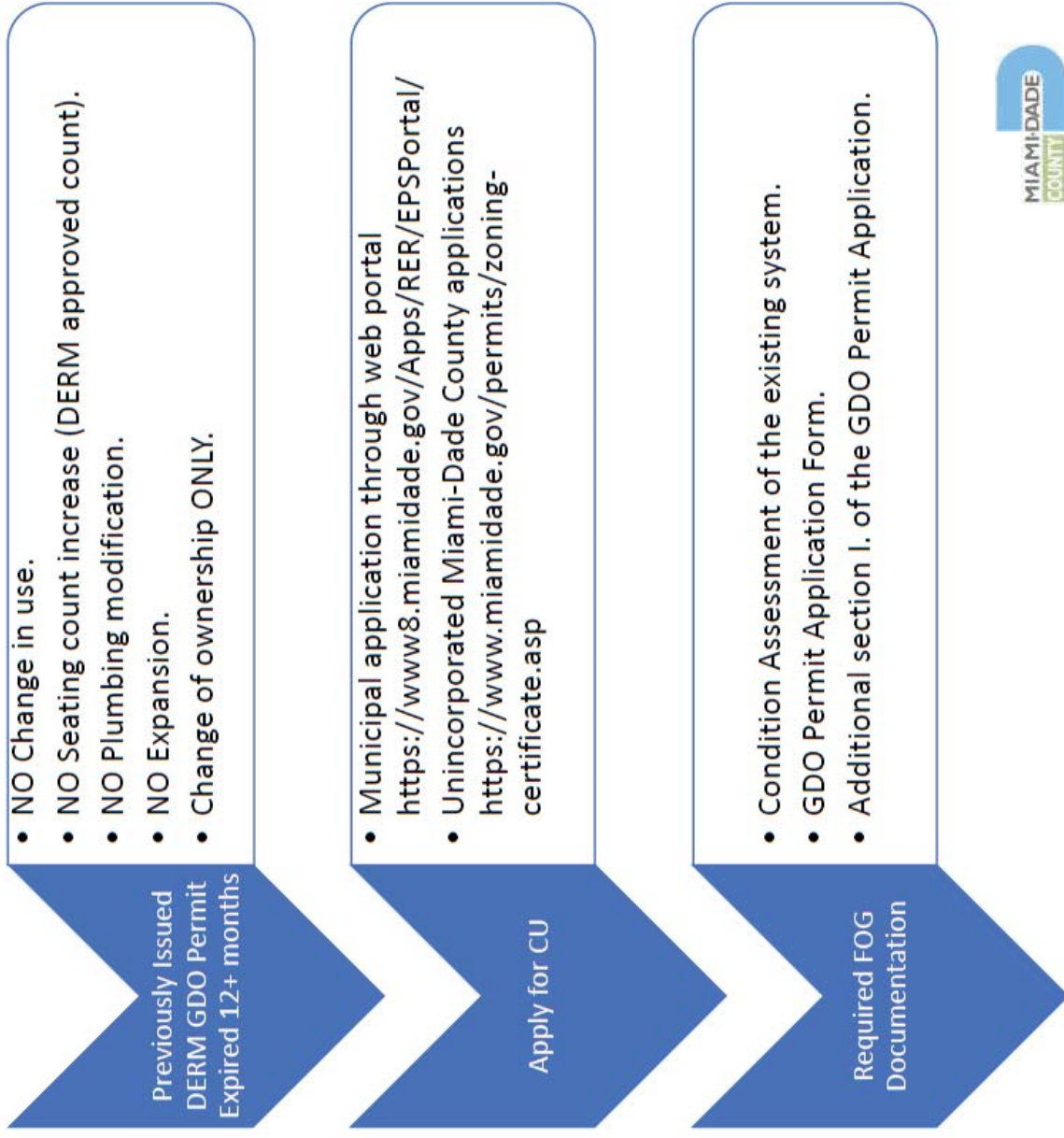
Chief, Clean Water Enforcement Branch
Water Protection Division
Attn: Brad Ammons
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Ammons.Brad@epa.gov

Rachael Amy Kamons
Environmental Enforcement Section
U.S. Department of Justice
P.O. Box 7611
Ben Franklin Station
Washington, D.C. 20044-7611
Rachael.Kamons@usdoj.gov

Florida Department of Environmental Protection
Southeast District – West Palm Beach
Attn: Compliance/Enforcement Section
3301 Gun Club Road, MSC 7210-1
West Palm Beach, FL 33406
Jason.Andreotta@dep.state.fl.us

RE: Consent Decree (Case No. 1:12-cv-24400-FAM),
Reference DOJ Case No. 90-5-1-1-4022/1,
Section VI, - Fats, Oils and Grease ("FOG") Control Program Paragraph 19(a),
Section XI – Force Majeure, Paragraph 52
Revised Abeyance of Requirements under Section 24-42.6 of the Code of Miami-Dade
County

Revised Abeyance of Requirements under MDC Section 24-42.6 (Effective Sept. 22, 2020 – Dec. 31, 2021)



Revised Abeyance of Requirements under MDC Section 24-42.6

Facility Criteria		Abeyance Criteria	Upgrade Period
New Facility	Abeyance <i>NOT</i> applicable	Fully comply with Code prior to operating and/or making changes to operations.	
Change in Use or Expansion	Abeyance <i>NOT</i> applicable		
Change in Ownership/Tenant Only	Abeyance Applicable	Facility with FOG Control Device Approved by DERM on or after January 1, 2015: <ul style="list-style-type: none"> Comply with FOG 2.0 within 36 months of CU approval. Facility with FOG Control Device <i>NOT</i> Approved by DERM on or after January 1, 2015: <ul style="list-style-type: none"> Comply with FOG 2.0 within 24 months of CU approval. 	
FOG2.0: FOG Control Device shall comply with requirements stipulated in Section 24-42.6 of the Miami-Dade County Code, as approved by FDEP/EPA. DERM: Division of Environmental Resources Management.			

Inspections for FOG Generating Facilities

Presented by:

Ashton Youngquist,
Environmental Specialist
Supervisor

Inspections Are Being Conducted For

- Enforcement Follow-up
- Complaints related to permitted facilities or FOG generators
 - Grease interceptor overflowing
 - FOG dumping
- Construction verification for Municipal projects
- Sanitary Sewer Pump Stations (Utility and Private)

Inspection Type	Total Inspections 2021
GDO	476
PSU	0
PSO	687
Complaints	18
Construction	373

Construction Inspections

FOG CONTROL DEVICE (FCD) INSTALLATION INSPECTION



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
Division of Environmental Resources Management (DERM)
Water and Wastewater Section | 701 NW 7th Court • Miami, FL 33136

DERM PROCESS NO.: _____ DATE: _____ TIME: _____

MUNICIPAL PROCESS/PERMIT NO.: _____

ADDRESS: _____

COMMENTS: _____

INSPECTOR NAME: _____ PHONE NO.: _____

INSPECTOR E-MAIL: _____

SIGNATURE: _____

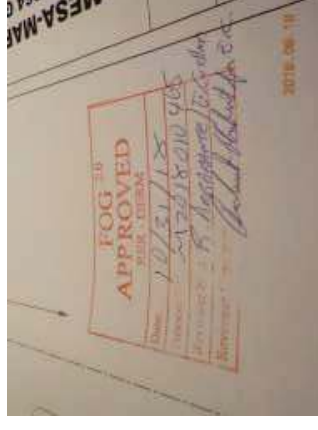


- Verify installation of FOG pretreatment systems as per Plans approved by DERM
 - Grease interceptors
 - Solids Separators
 - Sampling points
 - Monitoring Devices
 - Location

- If installation matches the plans, it will be Approved

Be Ready for the Inspection

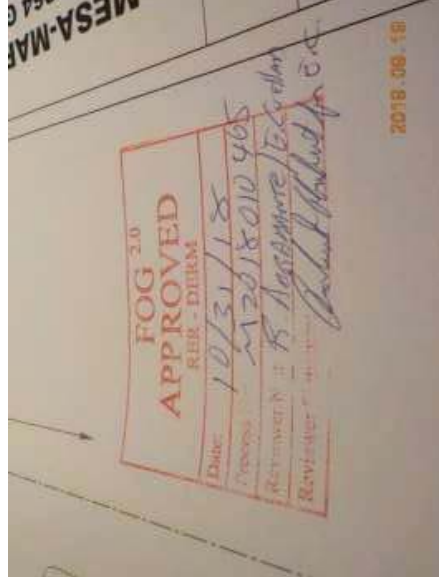
- ✓ Have Plans approved by DERM and Plumbing department on site
- ✓ Make sure all fixtures are accessible
- ✓ Make sure installation matches the plans
 - ✓ Equipment make and model
 - ✓ Labels with 99% certification available
- ✓ Location
- ✓ Clearances



DERM Approval Stamp

Miami Dade County Department of Regulatory and Economic Resources - Job Copy	
0001123787 - 3/30/2017 2:41:50 PM	
P-1-11012016.PDF	
Examiner	Date Time Stamp
Nadia Ramon	11/2/2016 9:11:14 AM A
Roydio Loraizo	11/2/2016 11:34:21 AM A
	Disp. Trade Stamp Name
	PLUMBING ISOMETRIC
	DERM Approved POG
	PLUM Approved

Miami Dade County Department of Regulatory and Economic Resources - Job Copy		
0221006851 - 3/5/2021 9:26:35 AM		
M2021006851 PI.1-os.pdf		
Examiner	Date Time Stamp	Trade Stamp Name
LOPEZ, KARINA	3/5/2021 8:24:05 AM	DFOG Approved



What do I do if my inspection was disapproved?



DERM PROCESS NO.: _____ DATE: _____ TIME: _____

MUNICIPAL PROCESS/PERMIT NO.: _____

ADDRESS: _____

COMMENTS: _____

INSPECTOR NAME: _____ PHONE NO.: _____

INSPECTOR E-MAIL: _____

SIGNATURE: _____

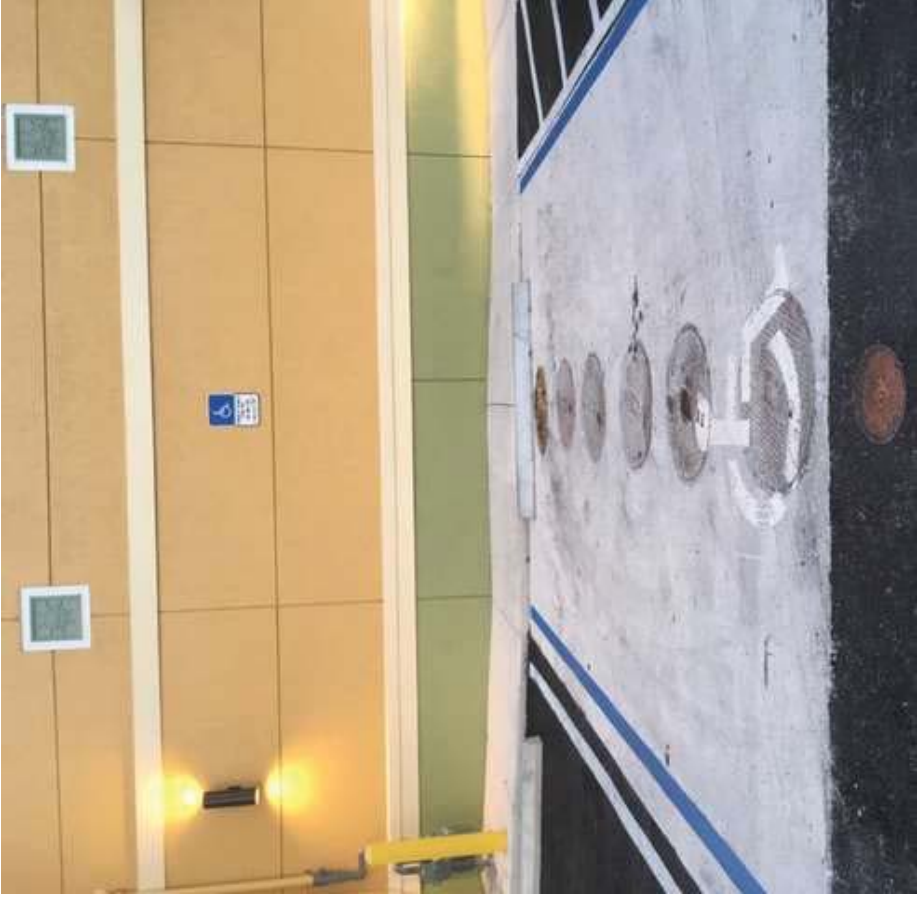
X DISAPPROVED

- Equipment does not match approved plans:
 - Install correct model
 - Submit plans for revision to DERM and the correspondent Plumbing department.
- Label with 99% Certification missing:
 - Attach correct label
- Different location:
 - Install at correct location or
 - Submit plans for revision to DERM and the correspondent Plumbing department

Construction Inspection Fails

Grease interceptors installed within a WASD Easement





Construction Inspection Fails

- Grease interceptors installed in a Handicap parking space
- The grease pretreatment system shall be accessible **at all times**

Construction Inspection Fails

- Installation did not match approved plans
- The vertical separation from the standing point of the platform to the level of the grease interceptor lids shall not be more than 40 inches
- The grease pretreatment system shall be **safely** accessible



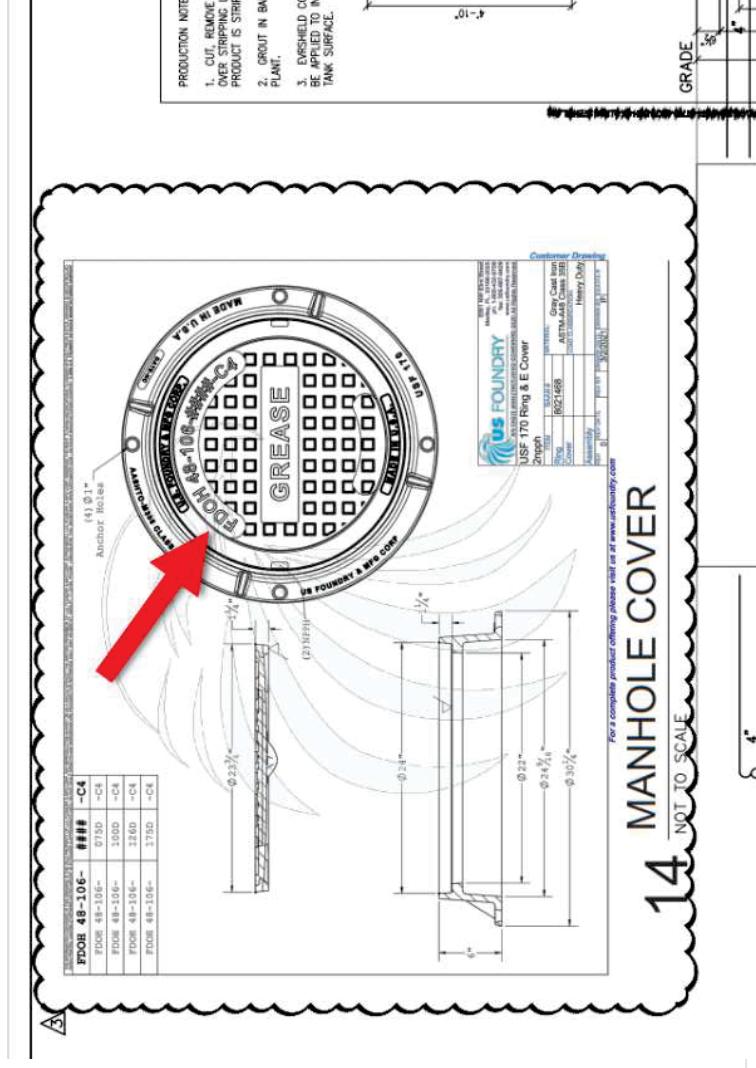


Construction Inspection Fails

Incorrect labels- Hydromechanical



- FDOH number stenciled by manufacturer on inlet side, visible prior to installation
- Numbers shall not be spray painted
- Newly proposed manholes with FDOH number from manufacturers



Gravity Interceptors

FDOH Labeling

What Are The Current Procedures at DERM?

How To Request a Construction Inspection

(only for facilities located within municipalities)

Request shall be sent by email to iFOG2@miamidade.gov

No Phone call requests accepted!



- Facility address
- DERM process number
- Contact name/phone number

Inspections are typically scheduled for the following business day, if requests are received prior to 3:30pm



What Are The Current Procedures at DERM?

How To Pay a Re-inspection Fee

(only for facilities located within municipalities)

A re-inspection fee of \$80.63 applies to the 3rd construction inspection and each inspection thereafter. An invoice will be provided to you upon requesting the 3rd inspection.

The DERM Cashier at OTV is not currently open to the public, payment options include:

- Pay with check by mail
- Pay online with credit card or e-check



What are Permitted Facilities required to do?

Follow all Operating Permit Conditions

 Clean the grease interceptors at the frequency established on the permit

 Report electronically every time the grease interceptor is pumped-out

 Inspect and clean solid separators as needed

 Inspect containers for used cooking oil daily

Why Pump-outs Are Important...

- Lack of maintenance = erosion to the tank walls
- Compromised tank integrity → Collapse
- Costly Emergency Service
- Restaurant closure during repairs
- Submit formal plans for replacement to local Building Department and DERM



eManifest

- Reporting every pump-out of the grease interceptor(s) in eManifest is a requirement
- Link to the eManifest website and temporary password are included in Specific Condition #2 of your Operating Permit

SPECIFIC CONDITIONS

1. The grease interceptor shall be cleaned at a minimum every 60 day(s). Solids separator and sampling port shall be inspected daily and cleaned as needed to prevent slow drainage, backups or overflows. An increase in maintenance frequency and/or upgrading of the existing grease interceptor shall be required if it is determined by the Department that discharges into the sanitary sewer system exceed the Sanitary Sewer Discharge Limitations and Pretreatment Standards set forth in Chapter 24 of the Code of Miami-Dade County, or may cause or contribute to blockages in the building drain lines, building sewer, laterals or public sanitary sewer system. If you are not responsible for cleaning of the grease interceptor, notify the Department immediately via email at FOG@miamidade.gov to ensure that permit records for the facility are up to date.
2. Report electronically every time the grease interceptor is cleaned. Reporting shall be completed by the 20th day of the month subsequent to the grease interceptor cleaning date. Reporting link: <https://www8.miamidade.gov/apps/rer/GreaseDischargeOperatingReport/Default>. The initial password for the electronic manifest system is G@o12345. For additional information about the electronic manifest system and for a maintenance log sample, visit the RER website at <http://www.miamidade.gov/environment/fats-oils-grease.asp>. If you are not responsible for cleaning of the grease interceptor, notify the Department immediately via email at FOG@miamidade.gov to ensure that permit records for the facility are up to date.

3. The operation shall not cause or allow a sanitary nuisance, ground or groundwater contamination, overflows, or blockages in the plumbing line

eManifest

What do you Need

- ✓ Your GDO operating permit number (GDO-_____)
- ✓ The pumper/service contractor LW operating permit number (LW-_____)
- ✓ Date of the grease interceptor maintenance/pump out.
- ✓ A computer, laptop, or cell phone with internet connection.

NOTE: always use
GOOGLE CHROME

MIAMI-DADE COUNTY

Home Help Logout

Grease Discharge Operating (GDO) Report

Home

In accordance with Chapter 24, Miami-Dade County Environmental Protection Ordinance (Code), all nonresidential facilities which can introduce fats, oils or grease into a utility or non-utility owned and operated sanitary sewer collection system in quantities which have the potential to affect or hinder the operation of sewage collecting, transmission or treatment facilities must obtain and maintain a Grease Discharge Operating Permit.

All facilities with GDO permit class OP (operator) or GENOP (generator/operator) are required to complete and submit a Liquid Waste Transporter Electronic Manifest on or before the 20th of the month the Fats, Oils and Grease Control Device is cleaned.

Refer to your GDO Permit for additional requirements.

Login

GDO Permit #

email

Password

[Forgot Password?](#) [Change Password](#)


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eManifest

- Type your GDO permit number (remove prior zeros)
- Enter an email address
- Confirm email address
- Type in temporary password



Grease Discharge Operating (GDO) Report

Home Help Logout

Home

In accordance with Chapter 24, Miami-Dade County Environmental Protection Ordinance (Code), all nonresidential facilities which can introduce fats, oils or grease into a utility or non-utility owned and operated sanitary sewer collection system in quantities which have the potential to affect or hinder the operation of sewage collecting, transmission or treatment facilities must obtain and maintain a Grease Discharge Operating Permit.

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Refer to your GDO Permit for additional requirements.

Login

GDO Permit #


email

Confirm email

Password

[Forgot Password?](#) [Change Password](#)

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eManifest

Change Password

Use **G@o12345** default password the first time and/or request forgotten password.

1. Type your old password.
2. Type the new password
3. Type the confirm password.
should have at least eight (8) characters
and include:

- ✓ an **UPPER case letter**
- ✓ a **lower case letter**
- ✓ a **number**
- ✓ a **special character**
(!, @, #, %, &, *)

Change Password

Permit#	4 - OS/OUTBACK STEAKHOUSE OF FL, LLC/DBA OUTBACK STEAKHOUSE #1077		
Current Password	<input type="password"/>		
New Password	<input type="password"/>	New password	
Confirm Password	<input type="password"/>	Confirm password	
	<input type="button" value="Submit"/>	<input type="button" value="Clear"/>	

eManifest

Fats, Oils, and Grease Control Device Cleaning

Use your Liquid Waste Transporter invoice to locate the LWT Permit Number (ST-#####-00) from the list below. If the number is not available then select 'Non Listed Liquid Waste Transporter --'. If you, the Food Service Establishment, perform your own cleaning then select 'SELF'.

Select By * Liquid Waste Transporter # Liquid Waste Transporter Company Name

Liquid Waste Transporter # *

45 - J & M SCAFFOLDS OF FLORIDA, INC.

Company Name *

J & M SCAFFOLDS OF FLORIDA, INC.

Company Address *

11050 NW 36 AVE

Company Phone # *

305-953-6965

Date Cleaned *

mm/dd/yyyy

[Preview](#)

eManifest

After clicking Submit, you will receive a confirmation email

Preview

Food Service Establishment Information


Facility Name	Your FSE
Facility Address	701 NW 1 st Court
Facility Phone #	305-222-2222

Cleaning Performed By Liquid Waste Transporter

Fats, Oils, and Grease Control Device Cleaning

Liquid Waste Transporter #	00
Company Name	EXAMPLE GIVEN PLUMBING & SEPTIC TANK CONTRACTOR, INC.
Company Address	757 NW 2 TER
Company Phone #	305-555-5697
Date Cleaned	07/18/2017

Grease Discharge Operating Certification
I certify that the information above is true and accurate.

Accept *   

Changes to Permit Information



Send an email to dermpermits@miamidade.gov including your GDO permit number, notifying us of the changes



Be advised changes to the grease pretreatment system or business name/ownership will require FOG Review and/or CU Review

What has been or can be extended based on COVID-19?

Outstanding Enforcement

If your facility was issued a Field Notice, UCVN (ticket), or Notice of Violation (NOV):

- Email the Inspector or Code Enforcement Officer as soon as possible for guidance
- If you do not have their email address, send an email to the FOG Group Supervisors: Ashton.Youngquist@miamidade.gov or Laura.Castillo@miamidade.gov
- Include your GDO permit number and Facility Address



Removal of Fixtures

- A Plumbing Permit may be required to remove sinks, 3-compartment sinks, or other fixtures
- Check with local Building Department
- Approval from FDOH and DBPR may also be required



What has
been or can
be extended
based on
COVID-19?

Extensions

- Depending on the type of Notice issued and reason for the violation, you may be able to receive an extension of time to comply
- NOTE: **Sanitary Nuisances** or any violation posing a danger to human health and the environment are not subject to extensions and will require immediate compliance





FUTURE JOB OPENINGS!

Apply online to join our team

<https://www.miamidade.gov/global/humanresources/jobs/home.page>

Environmental
Technician 2

Pollution
Control
Inspector 1

Engineer
positions

Division Chief	Carlos L. Hernandez, P.E. hernac@miamidade.gov
FOG Supervisors	<p>Laura Castillo Ashton Youngquist Ashton Youngquist</p>
FOG Inspectors	<p>Nelson Martinez Briana Henriques Jhon Garcia Valencia Isabel Gonzalez</p>
FOG Techs	<p>Erika Perez Randall Mejia Nicholas Padgett Charles Bryant Yeitsi Cabrera Cedric McQueen Edwin Mozo Stephanie Raudales Brian Avila</p>
FOG Permitting	<p>Carlos Ruiz Mario Irigoyen</p>



Division Chief	Carlos L. Hernandez, P.E. hernac@miamidade.gov
Senior Professional Engineer	Galo Pacheco, P.E. Galo.Pacheco@miamidade.gov
FOG Engineers (OTV)	<p>Carlos Lincheta Carlos.Lincheta@miamidade.gov</p> <p>Nadia Ramnanan Nadia.Ramnanan@miamidade.gov</p> <p>Karina Lopez Karina.Lopez@miamidade.gov</p> <p>Victor Cabrera Victor.Cabrera@miamidade.gov</p>
"FOG" Engineers (West Dade – no new submittals)	<p>Roberto Abrahamante Roberto.Abrahante@miamidade.gov</p> <p>Anthony Hung Anthony.Hung@miamidade.gov</p> <p>Enrique Cuellar Enrique.Cuellar@miamidade.gov</p> <p>Diana Jo Lee Diana.JoLee@miamidade.gov</p> <p>Yudeisy Martin Yudeisy.Martin@miamidade.gov</p>



Guest Presentation by:

Raymond Nichols & Laurent Conde,
Hawk Measurement Systems

Hawk Measurement Systems

A Higher Level of Performance



www.hawkmeasurement.com

Company Introduction

Hawk Measurement

- Manufacturer of Process Control Instrumentation
- Founded 1988
- 2 Facilities
 - HQ Melbourne, Australia
 - US Manufacturing in Medina, Ohio
- Over 30 years experience in a variety of industries including Mining, Oil & Gas, Power, Water/Wastewater, Food and Chemical etc.
- In-house design, R&D and manufacturing





IMD-3000

Hawk Measurement has designed and developed the most reliable grease trap monitoring system on the market. The IMD-3000 FOG Reduction System measures and monitors Fats, Oils, and Grease (FOG) using data logged interface and cellular monitoring capabilities as well as associated secured remote web portal and a data management system.

Technology Overview

Hawk Measurement is a level measurement expert, and what sets us apart from the competition is the measurement technology we utilize: Guided Wave Radar.

Guided Wave Radar Technology...

- ✓ Can Read through Any Level of Debris
- ✓ Can Accurately Read Surfaces with Angles and Corners
- ✓ Is Immune to the Build-Up of Grease and Debris
- ✓ Can Provide Real-Time Measurements in Fractions of an Inch

www.hawkmeasurement.com

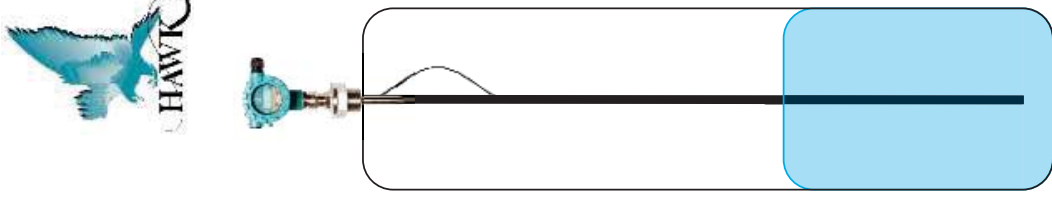


What is Guided Wave Radar?

Microwave pulses are transmitted along a cable or probe to the product being measured. At the point where the wave meets the product surface it is reflected by the product. The unit automatically calculates the distance to the pulse reflection using time of flight & time expansion. The intensity of the reflection depends on the dielectric constant of the product. The instrument measures the time between emission and reception of the signal which is proportional to the distance.

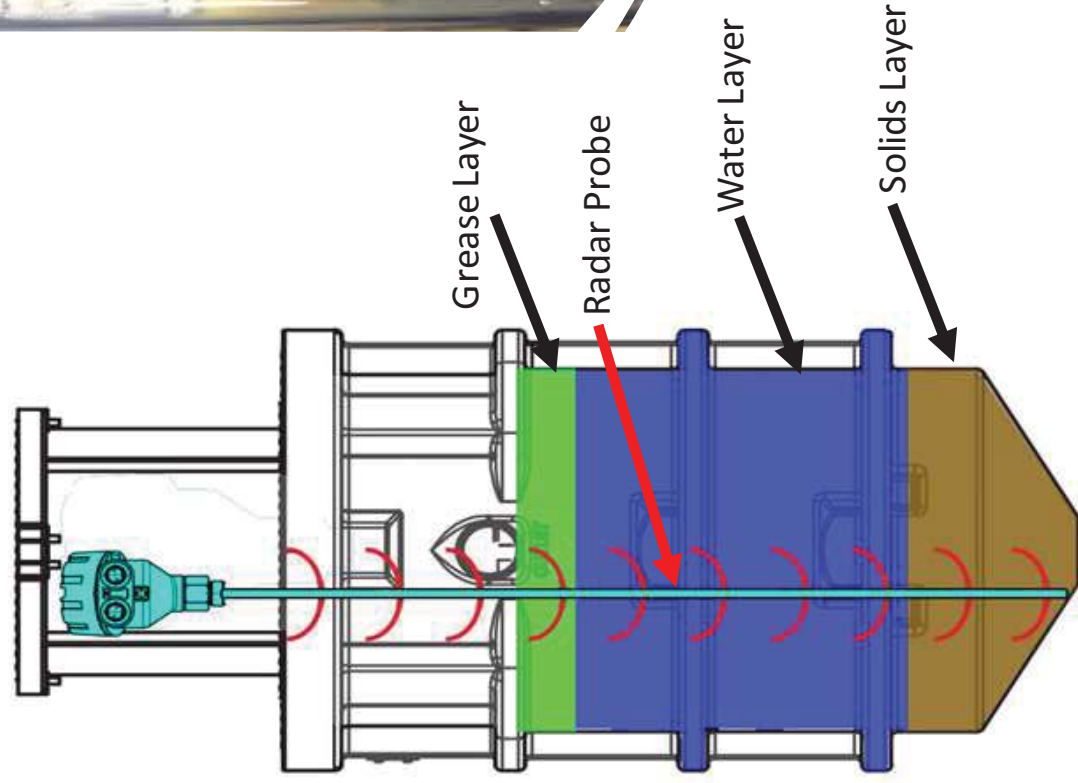
Low Impedance
Material

High Impedance
Material



What is Interface Measurement?





GUIDED WAVE RADAR PULSES ARE GUIDED THROUGH GREASE WASTE 70,000 TIMES PER SECOND.



System Contents

- ✓ Guided Wave Radar
- ✓ Datalogger
- ✓ Cellular Module
- ✓ Cell Antenna
- ✓ 12V Battery
- ✓ NEMA 4 Enclosure





www.hawkmeasurement.com

Why HAWK?

HAWK's FOG solution uses Guided Wave Radar (GWR) level technology, which is the most reliable technology for measuring interface (stratified) level for FOG tanks. The competition uses ultrasonic level technology, which provides faulty readings and is not recommended in such harsh environments.

Ultrasonic Technology

Ultrasonic sensors emit an ultrasonic pulse, which is reflected from the surface of the liquid being measured.

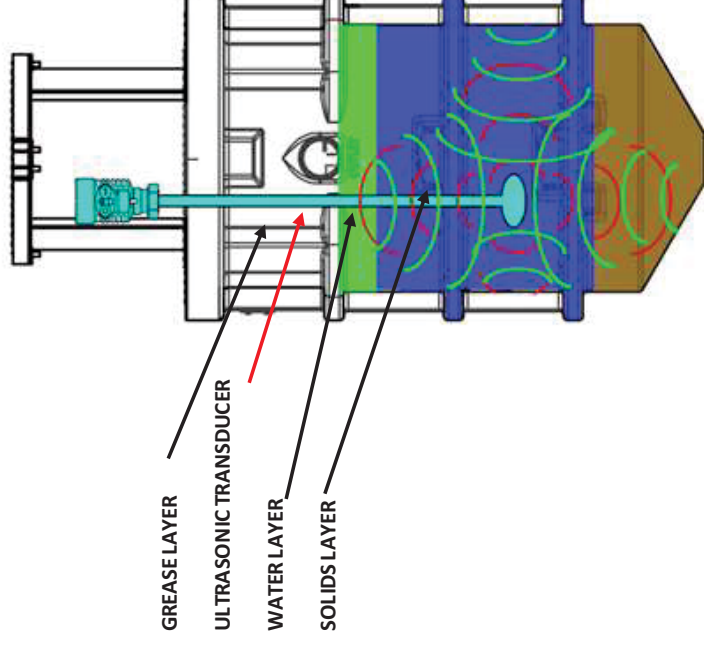
The Ultrasonic transmitter is just as good as the echo it receives. A successful measurement depends on reflection from the process material in a straight line back to the transducer. However, there are various influences that affect the return signal. Factors such as dust, heavy vapors, tank obstructions, surface turbulence, foam and even surface angles can affect the returning signal.



Competitors Technology

Ultrasonic Technology can only read straight walled surfaces accurately. Build-up of grease and debris is problematic for an Ultrasonic Transducer.

ULTRASONIC SOUNDWAVES ARE TRANSMITTED AND REFLECTED THROUGH GREASE WASTE.



IMD-3000 Features

- Reduce operating expenses and control emergency plumbing costs
- Real-time wireless alerts so preventative action can be taken before clogs lead to costly overflows
- Grease Interceptor Leak Detection
- Pumpout Quality Control and Assurance
- Text and email notifications are sent to building management systems to verify pumper service levels and alert facilities staff
- Specific data includes temperature, liquid level, exact % of Fats, Oils, Grease, and Food Solids that clog kitchen pipes
- IMD-3000 can be viewed on any device via CONNEX 3D Online Portal



Inventory Report

Start Date

06/15/2021

Start Time

12:00 AM

End Date

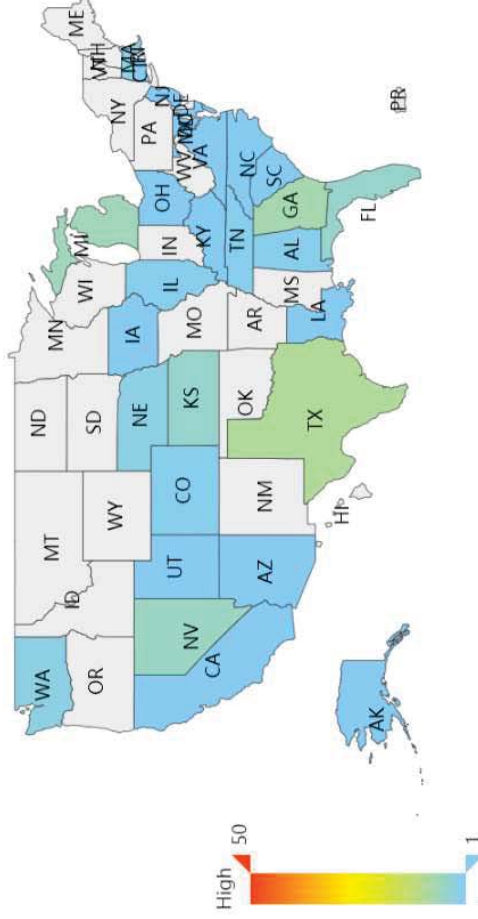
06/15/2021

End Time

11:59 PM

SEND TO EMAIL (CSV)

HIDE FILTERS



CONNEX 3D Portal

Monitor grease levels, receive alarms, create reports, and much more!

www.hawkmeasurement.com





CONNEX 3D™

Dashboard

Plant View

ASSETS

Tanks

Add New Tank

View Tanks

Locations

Add Location

Manage Locations

Users

Products

Add Products

View Products

Tank Information

Tank	Location	Product	Inventory (HeadSpace)	Inventory Date	Linear Measurement
Tank					
Dadeiland Mall - Tank 1 Available Fill Space	Norristrom Dadeiland Mall	Water	42 gal (1,784 gal)	4/15/20, 2:48 PM EDT	0.12 ft
Dadeiland Mall - TANK 1 FOG Level	Norristrom Dadeiland Mall	Water	39.8 gal (1,766.4 gal)	4/19/20, 2:34 AM EDT	0.11 ft
Dadeiland Mall - TANK 1 Interface Height	Norristrom Dadeiland Mall	Water	11.97 gal (1,614.03 gal)	4/23/20, 1:53 PM EDT	0.03 ft
Dadeiland Mall - TANK 1 Water Level	Norristrom Dadeiland Mall	Water	51.36 gal (1,776.64 gal)	4/18/20, 2:28 PM EDT	0.15 ft
Dadeiland Mall - TANK 2 Available Fill Space	Norristrom Dadeiland Mall	Water	38.3 gal (1,787.7 gal)	5/2/20, 2:12 AM EDT	0.11 ft
Dadeiland Mall - TANK 2 FOG Level	Norristrom Dadeiland Mall	Water	28.68 gal (1,800.32 gal)	5/2/20, 2:12 AM EDT	0.07 ft
Dadeiland Mall - TANK 2 Interface Height	Norristrom Dadeiland Mall	Water	3.92 gal (1,822.06 gal)	5/2/20, 2:12 AM EDT	0.01 ft
Dadeiland Mall - TANK 2 Water Level	Norristrom Dadeiland Mall	Water	29.82 gal (1,796.18 gal)	5/2/20, 2:12 AM EDT	0.08 ft
FOG Interceptor	Norristrom Dadeiland Mall	Water	77.07 gal (522.93 gal)	5/11/18, 9:23 AM	0.83 ft
FOG Interceptor level2	Norristrom Dadeiland Mall	Water	147.83 gal (452.17 gal)	5/11/18, 9:23 AM	1.6 ft

CONNEX 3D Portal

Monitor multiple tanks at one time

www.hawkmeasurement.com

Current Inventory

196.06
GALLONS

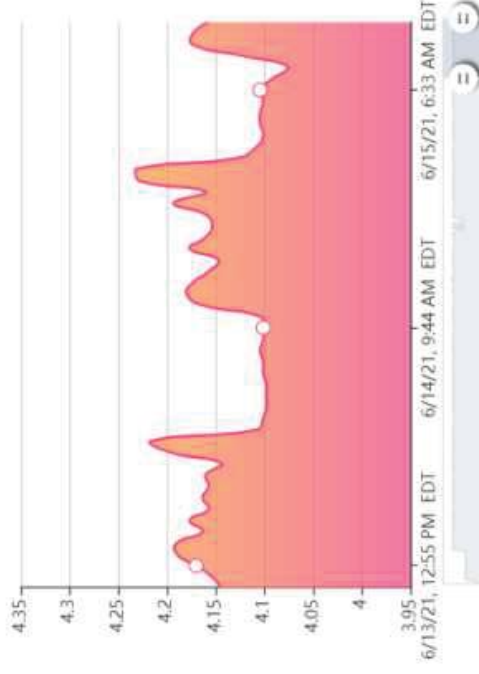
4.16 ^{FT}
CURRENT INVENTORY

49.88
IN

70.16
PERCENT FULL

Report Time	6/15/21, 12:30 PM EDT
Sensor Reading	1,267.00 mm
Inventory Amount	4.157 ft
Level Amount	
Battery Signal	11.6
Average Daily Usage	0.139 ft
24 Hour Usage	Filled: 4.419 ft; Drained: 0.262 ft
48 Hour Usage	Filled: 4.616 ft; Drained: 0.459 ft
72 Hour Usage	Filled: 4.797 ft; Drained: 0.64 ft

Inventory History



CONNEX 3D Portal

View current tank inventory, inventory history, and alarm information

Hello Dave Grumney,

Low Alarm for Tank: FOG Tank - 1

This is a notification alert from the FLO-CORP CONNEX 3D™ solution suite to inform you that FOG Tank - 1 tank has generated a **Low** alert that you subscribed to.

If you do not want to receive this alert anymore, please log onto the FLO-CORP CONNEX 3D™ Portal below and disable or remove the alert.

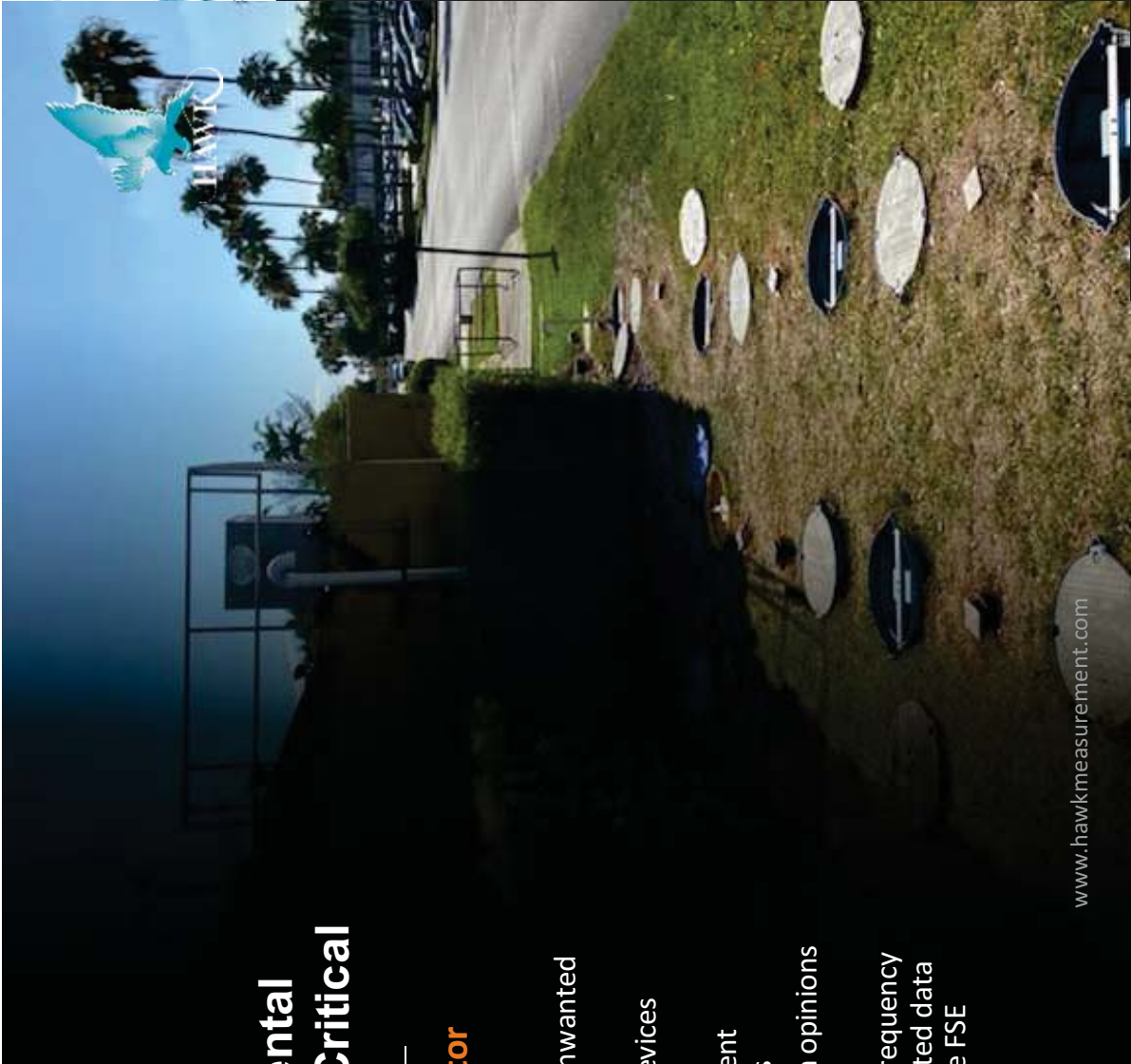
[Log on CONNEX 3D™ Portal](#)



Smart Environmental Measurement is Critical

Why We Need Interceptor Monitoring Devices

- Identifies root causes of unwanted environmental impacts
- Smart Cloud-connected devices track quality controls
- Real-time data helps prevent unwanted sewage impacts
- Effectively shift away from opinions towards data driven facts
- Provide longer pumpout frequency and provide cloud-connected data viewable by DERM and the FSE



www.hawkmeasurement.com



Thank You!

Raymond Nichols
Hawk Measurement
raymond.nichols@hawkmeasurement.com
(330) 952-3633

Laurent Conde
Instrument Specialties, Inc.
laurentc@isisales.com
(305) 219-6816



A Higher Level of Performance

Guest Presentation by:

**Mario Rubines,
Schier Representative**



SCHIER

**LIFETIME GUARANTEED
GREASE INTERCEPTORS**

Mario Rubines

786-295-1114

mrubines@bellsouth.net



DERM updated their Code/Ordinance on March 2018 and since that time we have all learned quite a bit. Today I will be talking about some of the things that still come up..

**LIFETIME GUARANTEED
GREASE INTERCEPTORS**



SCHIER
LIFETIME GUARANTEED
GREASE INTERCEPTORS

Safety Manway[™]

Safety Star® access restrictor prevents accidental entry to tanks (450 lb. rating)

Use with concrete, steel, fiberglass, and plastic tanks

Use with any buried tank with manway up to 20" I.D.

Cast iron cover (for outdoor installations) - pickable 24" gas/water tight, H-20 rated, proof-load tested to 40,000 lbs.

Specify with any buried tank for new construction.

Can be installed retroactively over existing buried tanks

New





Safety Manway™

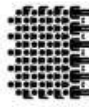

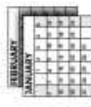
Here shown with our FCR2 riser on a concrete tank.




System Sizing

DERM's two-step sizing method considers both **flow rate** and **grease production** to design the appropriate third-party certified system. For ease of specification per DERM requirements, Schier offers full-service sizing software through the **Grease Monkey** grease interceptor sizing service. Selection of the appropriate solids interceptor and sample well is at the discretion of the design professional since FOG 2.0 does not outline particular specifications for either of these components.

Grease Production Sizing

 meals per day
 grease production values
 days per pumpout cycle

 grease capacity needed

Sizing by Flow Rate

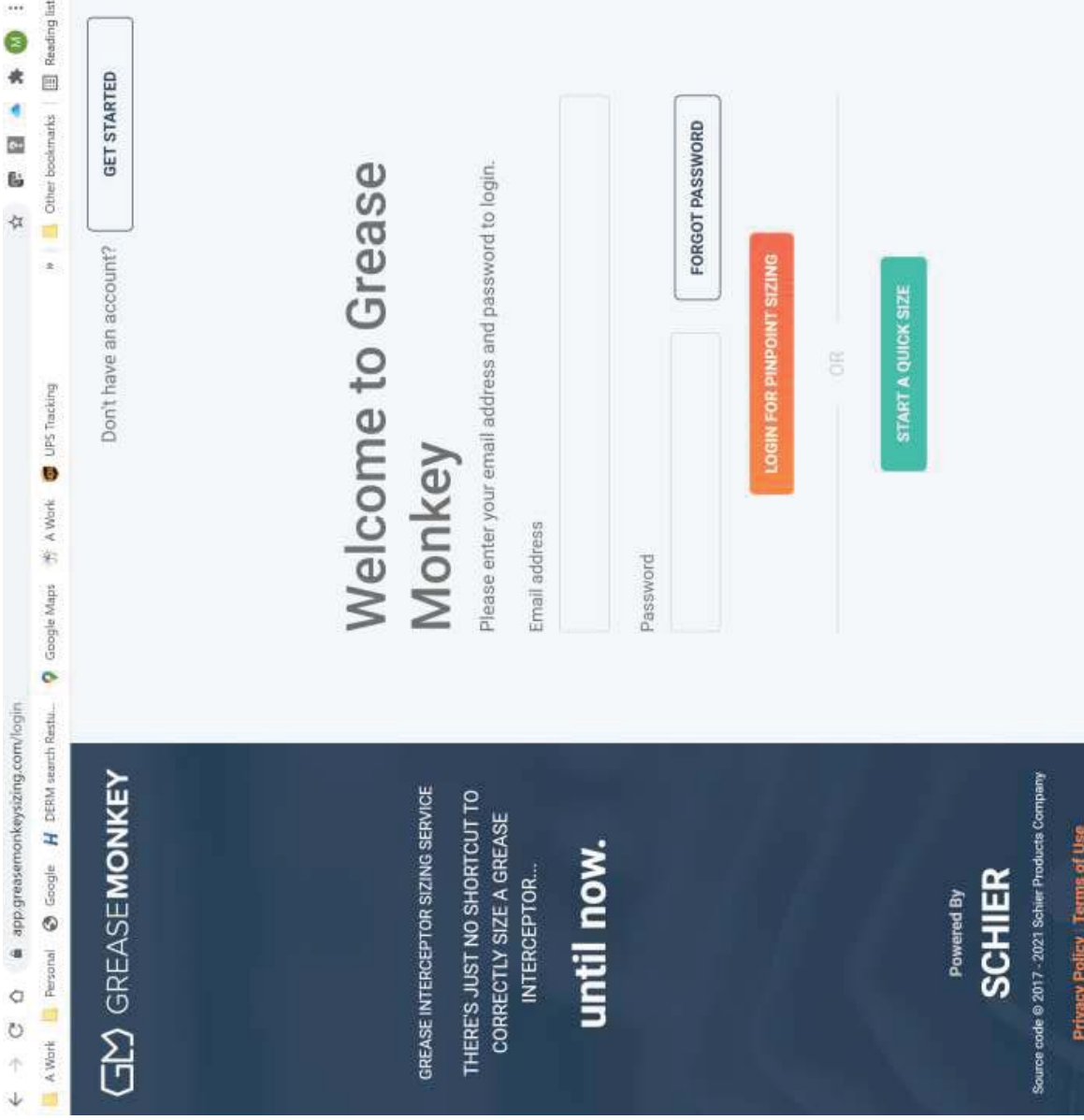
Nominal Pipe Size	Minimum Flow Rate (per Ch. 24-42.6)	Maximum Flow Rate (per Manning's formula)
2"	20 GPM	20 GPM
3"	23 GPM	46 GPM
4"	50 GPM	100 GPM
6"	147 GPM	300 GPM

Restaurant Type	Grease Production Values
Low Grease Producer	0.005 lbs / meal (no flatware)
	0.0065 lbs / meal (with flatware)
Medium Grease Producer	0.025 lbs / meal (no flatware)
	0.0325 lbs / meal (with flatware)
High Grease Producer	0.035 lbs / meal (no flatware)
	0.0455 lbs / meal (with flatware)

Size for a 90 day Pump cycle

Our Grease Production sizing adopted by ASPE is the standard for sizing all hydromechanical grease interceptors, This will save the FSE heart ache. 90 day POF will give the FSE the best possible chance to comply with FOG 2.0 on future inspections.





Grease Monkey

As many of you know I will help on sizing grease interceptors when asked, and will continue to do so specially for projects where more than one tenant is connected to the grease interceptor.

For when you are designing a restaurant all by itself please try the Grease Monkey sizing



SCHIER
LIFETIME GUARANTEED
GREASE INTERCEPTORS



Cast Iron Pickable
C24HP



Composite
C24H2
C24H

What covers to use

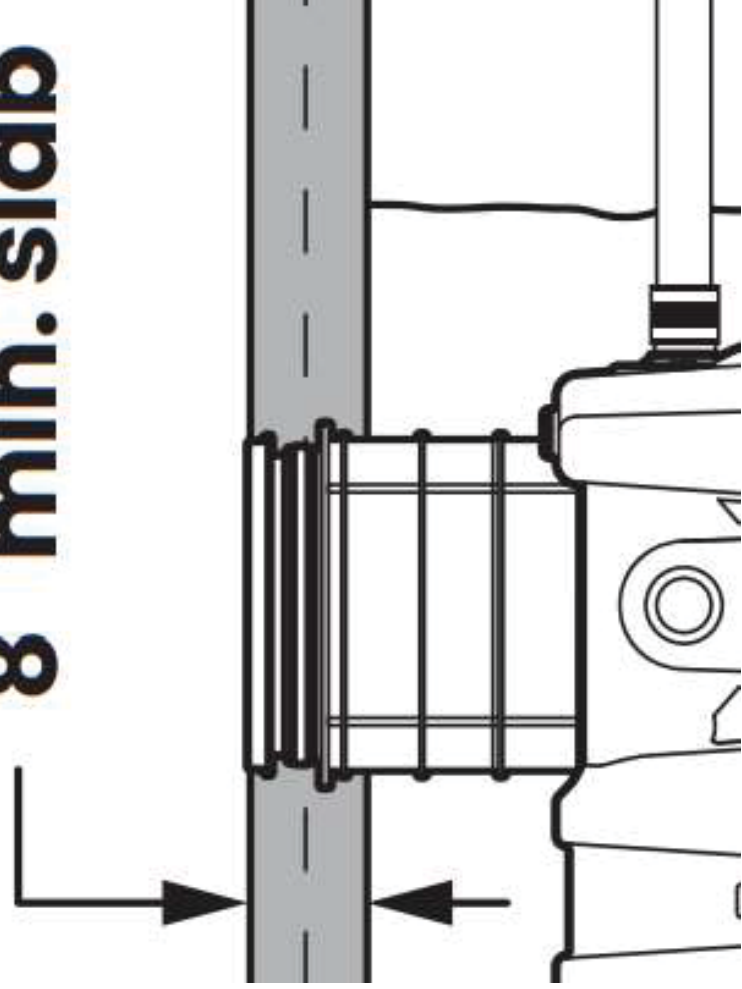
When installing interceptors outdoors the best cover is the H20 Cast Iron type.

When installing interceptors indoors the best cover is the composite type because it not only seals better but DERM requires it for any interceptor installed above the ground.



Concrete pad at grade

8" min. slab



Do not try to protect the interceptor as you pour concrete by wrapping the risers or anything else.

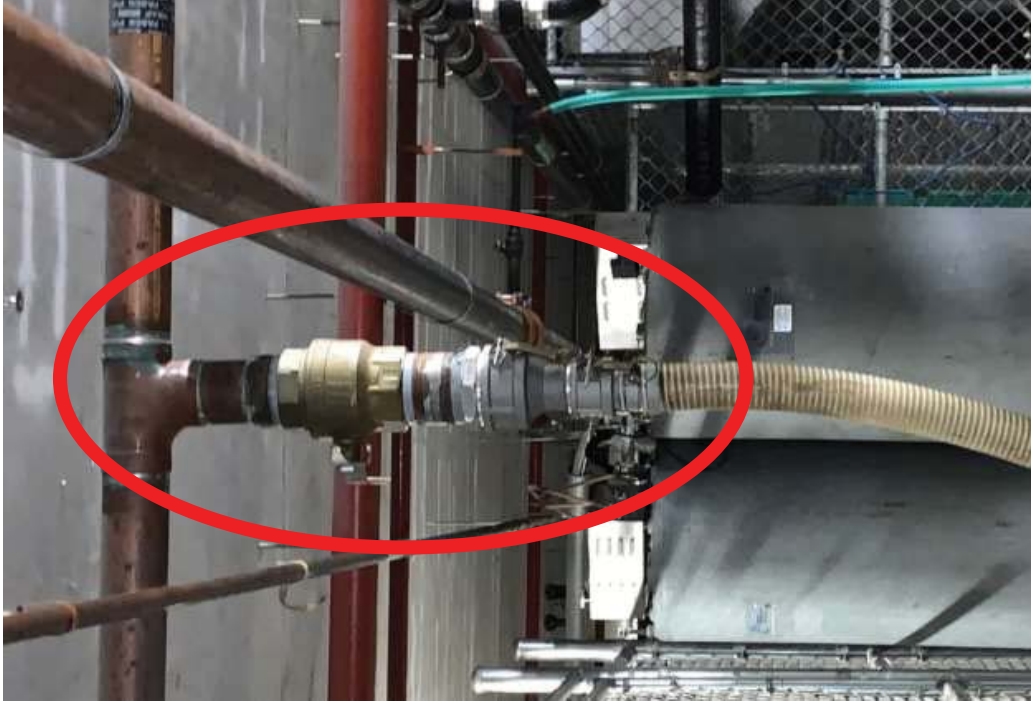
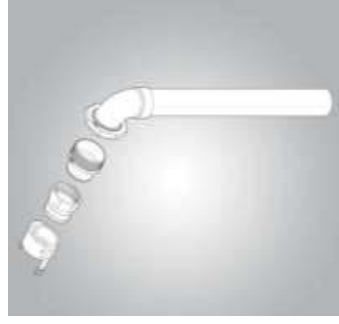
It is important for the concrete to fill in every nuke and cranny so that it can hold the weight it was certified too.



SCHIER
LIFETIME GUARANTEED
GREASE INTERCEPTORS

Pump-Out ports

In Miami-Dade its best to use a single point Pump Out Port as shown on the left, most manufacturers have kits but you would need a pipe for every tank connected to the outside.



NEW DESIGN



SV24

Sample port update

Please use the new updated SV24 going forward



SV24-L old

Please do not use the SV24-L model any more, its been eliminated.

DERM will allow plumber to install the new SV24 in lie of the old SV24-L without the need to update the plans.



SCHIER
LIFETIME GUARANTEED
GREASE INTERCEPTORS

Sample port update

SV10



This is our least expensive sample port and comes with a 2" offset. Please do not use on existing systems unless you are replacing concrete interceptors.

SV24-O



This is our full size sample port and has a 5" offset and lets you take samples easier.

DERM will allow plumber to install the new SV24 in lie of the old SV24-L without the need to update the plans.



SCHIER
LIFETIME GUARANTEED
GREASE INTERCEPTORS

Miami DERM Approved Models

For indoor and outdoor installations, above or below grade.

GREAT BASIN™ Grease Interceptors	Flow Rate	Certified Grease Capacity	Unit Dimensions L x W x H	Liquid Capacity	Connections	Solids Interceptor	System Solids Capacity
	20 GPM	15.85 lbs.	27" x 23" x 12"	10 gal.	4" FPT / 2" & 3" plain end	Striem AA-S	5.1 gal.
Indoor installations only. Batted polypropylene pedestrian rated covers. Triple outlet.							
	35 GPM	180 lbs.	35" x 23" x 13"	40 gal.	4" FPT / 3" & 4" plain end	Striem AA-S	5.6 gal.
Indoor installations only. Batted polypropylene pedestrian rated covers. Units must be piped in series. Triple outlet.							
	50 GPM	623.4 lbs.	47" x 33" x 40"	125 gal.	4" FPT / 4" plain end	Schier SI-50	5.3 gal.
Pickable cast iron H-20 rated cover. Triple outlet. Certified to ASME A112.14.3 (Type D) - FLOW CONTROL NOT REQUIRED							
	75 GPM	1,817 lbs.	87" x 33" x 44"	277 gal.	4" FPT / 4" plain end	Schier SI-75	178 gal.
Pickable cast iron H-20 rated covers. Triple inlet/outlet. Certified to ASME A112.14.3 (Type D) - FLOW CONTROL NOT REQUIRED							
	100 GPM	2,817 lbs.	94 1/2" x 46" x 49"	510 gal.	4" FPT / 4" plain end	Schier SI-75	211 gal.
Pickable cast iron H-20 rated covers. Triple inlet/outlet. Certified to ASME A112.14.3 (Type D) - FLOW CONTROL NOT REQUIRED							
	100 GPM	6,237 lbs.	94" x 68" x 77"	1010 gal.	4" FPT / 4" plain end	Schier SI-250	365 gal.
Below grade installations only. Pickable cast iron H-20 rated covers. Straight-through connections only.							
	200 GPM	3,681 lbs.	94" x 68" x 77"	1,010 gal.	6" plain end	Schier SI-250	365 gal.
Below grade installations only. Pickable cast iron H-20 rated covers. Straight-through connections only. Certified to ASME A112.14.3 (Type D) - FLOW CONTROL NOT REQUIRED							

* System Solids Capacity is the combined capacity of the solids interceptor and grease interceptor.

All models listed by IAPMO to ASME A112.14.3 and CSA B4811 and satisfy Miami DERM 98% efficiency requirements.

Schier's updated line up

To better serve Miami-Dade County we have from the smallest interceptor to the GB-1000-B which can be used on an existing 6" GW line or new design but not for a Shell project.



New Space Saving Option

Avoid specifying the GB-250-2 going forward because we have better options



Use this GB-500-B instead of the GB-250-2 above. It has a smaller footprint, cost the same, easier to clean and only has two covers which is more appealing.



New Space Saving Option

Avoid specifying the GB-75-2 going forward because we have better options



GB-75-2

863 Lbs.



GB-250-B

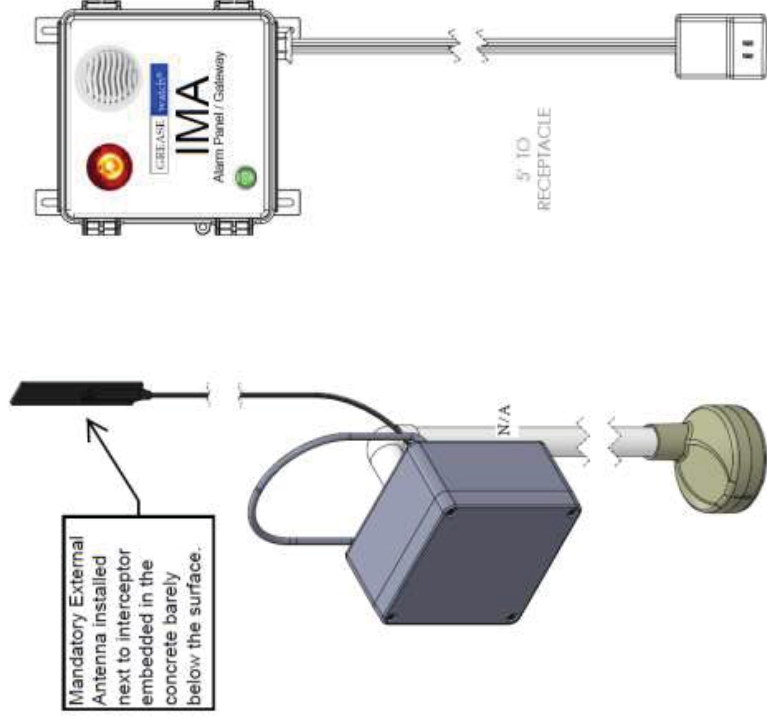
1817 Lbs.

Use this GB-250-B instead of the GB-75-2 above. It has a smaller footprint, cost the same, has twice the capacity, is easier to clean



SCHIER
LIFETIME GUARANTEED
GREASE INTERCEPTORS

Interceptor Monitoring Alarm



- Shall mean a system and its components capable of monitoring levels in a FOG control device on a regular interval. The system shall trigger a visual and audible alarm at the FOG Capacity Limit. See FOG ordinance 24_42-6
- Important to keep in mind the distance and interference from Tank sensor to alarm panel so you can select the components necessary so it will function properly.
- You can have Tank sensors in an entire mall and connect them to the one alarm panel.
- Our Tank Vision monitoring service will email you and let you know what the alarm was and for which system in the property. This will save the nuisance alarms and the expense of getting someone out there to check it out.

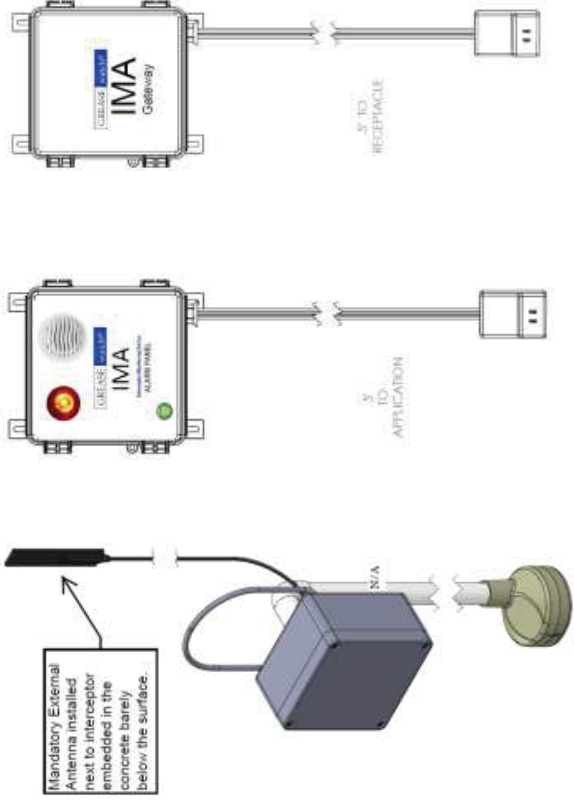
GREASEWATCH®

Typical G5-IMA configuration

G5-IMA & G5-IMD

Interceptor Monitoring Device

- Very similar to the IMA and will trigger a visual and audible alarm at the FOG Capacity Limit, and reports the data back to DERM per 24_42-6
- Typically this monitoring Device is installed with the three separate components because of the typical long distances between equipment like on a mall.
- Our Tank Vision monitoring service will let you know what the alarm was for in the tank to avoid nuisance alarms and the expense of getting someone out there to check it out.



GREASEWATCH®

G5-IMA & G5-IMD

Typical G5-IMD configuration

If you have any questions
please call me or email me.

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Q & A

by:

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