Guidance for Food Service Facilities in the MWWSSB Service Area

The Montgomery Water Works and Sanitary Sewer Board (MWWSSB) requires all food service facilities (FSFs) to prevent the entry of fats, oils, and grease (FOG) into the sanitary sewer system. An outdoor gravity grease interceptor with a separate sampling well is required for all facilities serving food, including restaurants, service stations, grocery stores, ice cream parlors, bakeries, delis, coffee shops, sandwich shops, cafeterias, daycares, catering businesses, churches, institutions, or any other facility that prepares food. All such FSFs are required to enter into the Board's Pretreatment Program and are subject to inspection.

The FSF is responsible for ensuring compliance with the Board's Pretreatment Policy, as well as all applicable plumbing codes and county and state health department requirements. All kitchen fixtures associated with food preparation should be connected to the grease interceptor. This includes kitchen sinks, mop sinks and kitchen floor drains. Bathrooms and other domestic sanitary waste lines should not be connected to the grease interceptor. Please refer to the Board's Rules and Regulations and Engineering Design Manual for further information on Grease Interceptor requirements. Both of these documents can be found at the Board's website.

Pretreatment information, including Rules and Regulations: https://www.mwwssb.com/en/Business/Pretreatment

Engineering Design Manual: https://www.mwwssb.com/en/Services/DesignManual

<u>Submittal</u>

The Board will review and approve information on the grease interceptor being installed. The submittal should come from either an engineer or plumber licensed in the State of Alabama. At a minimum the following information must be included:

- Detail or Cut Sheet of the Grease Interceptor being proposed.
 - In most cases this will be detail 370 or 372 (Enclosed)
 - Sampling well detail should also be included, see detail 371 (Enclosed)
- Calculations on how the device was sized (Grease Interceptor Sizing Worksheet or Board approved alternative sizing calculations) (Enclosed)
- Sketch of kitchen showing drains and location of the grease interceptor and sampling well
- Pretreatment Questionnaire Form (Enclosed)

For existing grease interceptor devices or Notice of Violation responses, return Submittal Package to the Board's Environmental Services Department via email <u>pretreatment@mwwssb.com</u> or fax to (334) 206-1726. For new construction projects or Development Plans submitted through the City of Montgomery, return Submittal Package to the Board's Engineering Department via email at <u>adawson@mwwssb.com</u> or fax to (334)261-3448. Initial review may take up to two weeks.

Variance

In existing buildings, space restrictions may prohibit the installation of an outdoor gravity grease interceptor. In this case, the owner may apply for a variance by submitting a proposed active grease removal device. The variance application must include all the information described above and a detailed description of why a Gravity Grease Interceptor cannot be installed at the existing building. Additionally, the method to size the alternative grease removal device must be explained and the sizing calculation must be shown. Grease drums or hydro-mechanical grease traps will not be accepted. The alternative grease removal device must be reviewed and approved by the Board's Engineer.

Mobile Food Units

Mobile Food Units are required to discharge waste tanks through a grease interceptor located at a commissary. Commissaries must have an outdoor gravity grease interceptor that meets all MWWSSB requirements. If the commissary is an existing FSF, then the grease interceptor must be sized with enough capacity to accommodate both the FSF and the food truck. If the commissary does not currently have an adequate grease interceptor, then a new outdoor grease interceptor must be installed. Discharge of food truck waste tanks must be done through a drain connected to the interceptor, preferably the drain closest to the interceptor.

A full submittal, as previously listed, will be required for the commissary. Additionally, a sketch of the food truck including all sinks and drains will also be required.

Contacts

Please contact the Board's Environmental Services Department at (334) 206-1726 with questions about the Pretreatment Program or to inquire about **existing** grease interceptors.

For further questions about **new** grease interceptor installations please call the Board's Engineering Department at (334) 206-1627.



WATER WORKS & SANITARY SEWER BOARD OF THE CITY OF MONTGOMERY, ALABAMA

New Grease Interceptor Contact Information

	_		
		Business Name:	
Business Contact Information		Business Address:	
		Business City, State, Zip:	
		Owner Name:	
		Owner Mailing Address:	
		Owner City, State, Zip:	
nes		Owner Phone Number:	
Busi		Owner Fax Number:	
		Owner Email Address:	
_			
ation		Engineer/Plumber Name:	
form		Engineering/Plumbing Business Name:	
er In		Professional Engineer/Plumber License Number:	
qmn		Engineer/Plumber Contact Phone Number:	
sr/PI		Engineer/Plumber Email Address:	
Engineer/Plumber Information		*All new grease interceptor submi licensed in the State of Alabama.	ittals must come from either an engineer or plumber

Grease Interceptor Sizing Worksheet Guidance

The Grease Interceptor Sizing Worksheet should be used to size outdoor gravity grease interceptors as shown in drawings numbers 370 and 372. Fill out the information at the top of the form including the name and address of the facility. Include the name of the person filling out the form on the line shown as "Calculated By". The calculation should be done by either an engineer or plumber licensed in the State of Alabama.

Block A – Number of Meals per Peak Hour – For facilities with a dining area, use the calculation shown in order to determine the number of peak meals per hour. If the facility does not have a dining area, then estimate the peak number of meals served in the busiest hour. Use the chart to determine Meal Factor based on length of average meals.

Block B – Waste Flow Rate Condition – Use the table to determine Waste Flow Rate Condition.

Block C – Retention Time – Use the table to determine Retention Time based on the type of kitchen. Unless the facility does not cook food, use "Commercial Kitchen", 2.5 hours.

Block D – Storage Factor – Use the table to determine Storage Factor based on hours of operation. These hours should include any kitchen prep time prior to opening or closing.

Block E – Interceptor Size – Transfer the entries from Blocks A, B, C, & D to the corresponding blocks at the bottom of the page. Multiply all these numbers together to get the Calculated Size. In the last box round up to the nearest 500 gallon increment to determine Interceptor Size.

Example: A restaurant is operating from 10:00 AM to 10:00 PM with a maximum seating capacity of 60.

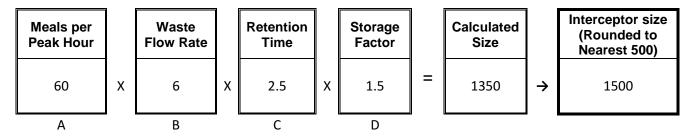
Block A – Seating Capacity is 60 and because it is a sit-down restaurant, Meal Factor is 1. Multiply 60 times 1 to get a "Meals per Peak Hour" of 60.

Block B – The restaurant has a dishwasher, therefore "Waste Flow Rate" is 6.

Block C – The restaurant is a full Commercial Kitchen, therefore the "Retention Time" is 2.5.

Block D – The restaurant begins prep work at 10 AM and clean-up is done by 10 PM, for a total operation time of 12 hours. According to the table, the "Storage Factor" for this operation time is 1.5.

Block E – According to the Calculation, a 1,500 gallon Gravity Grease Interceptor is required.



GREASE INTERCEPTOR SIZING WORKSHEET						
ATO NORKS &	Business Name:			Date:		
	Address:			Phone:		
Star Tomorrow	City, State, Zip:	(Calcul	ated By:		
	* The Grease Interceptor Sizing Formula adopted by the MWWSSB is as def	ned by the Uniform Plu	umbing	Code (UPC) - Appendix H (2	2006)	
	Number of Meals Per Peak Hou	r			NOTES:	
	Seating Capacity	Meal Factor]			
				Meals per Peak Hour		
	X		=	r eak noui		
Α	Establishment Type Meal Fa	actor:	1			
	Fast Food (45 max.) 1.3	1.33				
		1.00 0.67			I	
	Dinner Club (120 min.) 0.5		j			
	**If Food Service Establishment does not have seating estimate peak number o	f meals served in t	ousies	t hour.		
	Wests Flow Pate Condition				NOTES:	
	Waste Flow Rate Condition	I	1	Waste Flow		
	Facility Type With Dishwasher	Flow Rate		Rate		
в	Without Dishwasher	5				
	Single Service Kitchen	2				
	Garbage Disposal	1]			
	* Single Service Kitchen is defined as a kitchen where there is no meal prepara	ion on oita. Food i	a haat			
			Sileat	and serve only	NOTES:	
	Retention Time			Retention		
C	Type of Kitchen Tim			Time		
Ŭ	Commercial Kitchen2.5 hoSingle Service Kitchen1.5 ho					
					NOTES:	
	Storage Factor		_			
	Commercial Kitchen Hours of Operation (Including Prep Time)	Storage		Storage		
D	8 Hours	Factor 1		Factor		
	12 Hours	1.5				
	16 Hours 24 Hours	2				
	Single Service Kitchen	1.5				
			Ĩ			Interceptor size
	Meals per Waste Flow Retention Peak Hour Rate Time	Storage Factor		Calculated Size		(Calculated Size Rounded to
						Nearest 500)
Е	x x x		=		\rightarrow	
			l			
	A B C NOTES: Multiply the values obtained from steps A, B, C, & D. The result, rounded up to	D	on incr	ement is the approvim	ate Greec	e Intercentor size for this
	application. Minimum acceptable interceptor shall have 300 gallon capacity. At this tim					
	1,500 gallon interceptors in series).					



WATER WORKS and SANITARY SEWER BOARD **Of the City of Montgomery Environmental Services 2000 Interstate Park Drive** Montgomery, AL 36109

PRETREATMENT QUESTIONNAIRE

FORM COMPLETED BY:_____ DATE:_____

1. COMPANY NAME:

- 2. MAILING ADDRESS/LOCATION OF BUSINESS IN MONTGOMERY, AL:
- 3. BILLING ADDRESS:
- 4. OFFICIAL CONTACT:

Name: _	
Phone:	

5. DESCRIPTION OF BUSINESS ACTIVITIES:

- 6. DESCRIBE IN AS MUCH DETAIL AS POSSIBLE WHAT IS TO BE DISCHARGED TO THE SANITARY SEWER (EXCLUDE NORMAL SANITARY WASTEWATER):
- 7. ESTIMATE THE QUANTITY IN GALLONS PER DAY OF WASTEWATER TO BE DISCHARGED (EXCLUDING NORMAL SANITARY WASTEWATER):

8. LIST ANY PRETREATMENT FACILITIES TO BE USED AT THIS LOCATION:

EMBALMING SINK	YES or NO
GARBAGE DISPOSAL	YES or NO IF YES NUMBER OF HOUSING UNITS:
GREASE DRUM	YES or NO
GREASE INTERCEPTOR	YES or NO IF YES SIZE OF DEVICE:
GREASE TRAP	YES or NO IF YES GPM OF DEVICE:
HOLDING TANK(S)	YES or NO
OIL/WATER SEPARATOR	YES or NO
SAND TRAP	YES or NO
SILVER RECOVERY UNIT	YES or NO

9. CHECK ALL KITCHEN EQUIPMENT PRESENT AT THIS FACILITY:

THREE COMPARTMENT SINK	
FRYER	
COMMERCIAL STOVE	
OTHER:	

10. LIST ANY TOXICANTS KNOWN OR ANTICIPATED TO BE PRESENT IN THE DISCHARGE. IT IS A GOOD IDEA TO CONSULT SAFETY DATA SHEETS (SDS) FOR THIS INFORMATION. THE WATER WORKS BOARD OPERATES A BIOSOLIDS PROGRAM AND ASKS THAT METALS BE PARTICULARLY LOOKED AT FOR THIS QUESTIONNAIRE.

