



DEFENDERS OF THE BAY



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PRESS





DEFENDERS OF THE BAY

WRITTEN BY:
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AND
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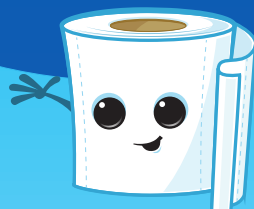
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ONLY FLUSH THE
THREE P's



PEE



**TOILET
PAPER**



POOP

TRASH CLOGS PIPES

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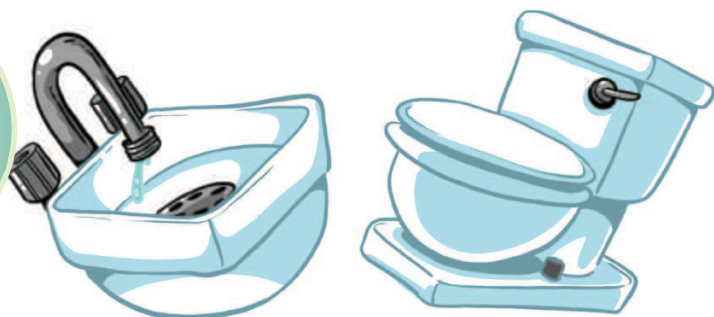
WTAMC
**WASTEWATER
TREATMENT
AGENCIES OF
MARIN COUNTY**

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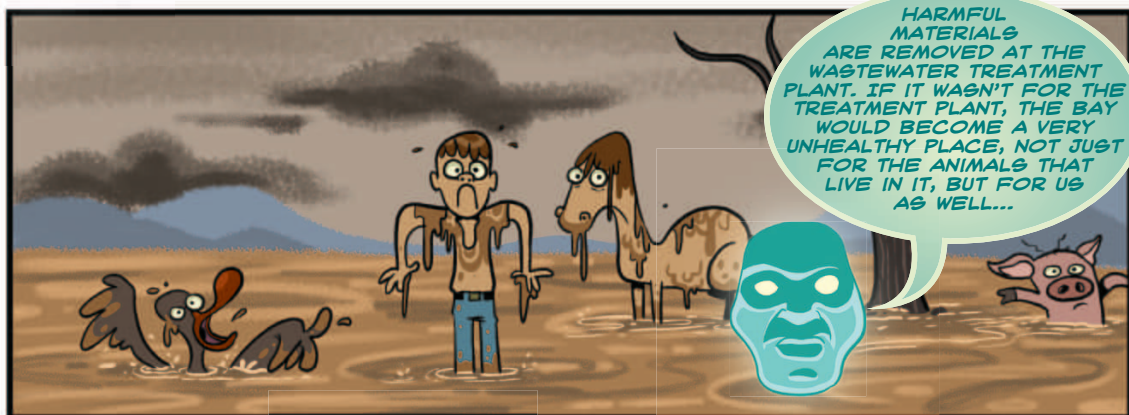




SEE, ALL THE WASTEWATER THAT GOES DOWN THE DRAIN GOES THROUGH THE SEWER SYSTEM, WHERE IT FINALLY ENDS UP GETTING TREATED AT THE WASTEWATER TREATMENT PLANT - SO THAT IT CAN BE SAFELY DISCHARGED BACK INTO THE S.F. BAY.



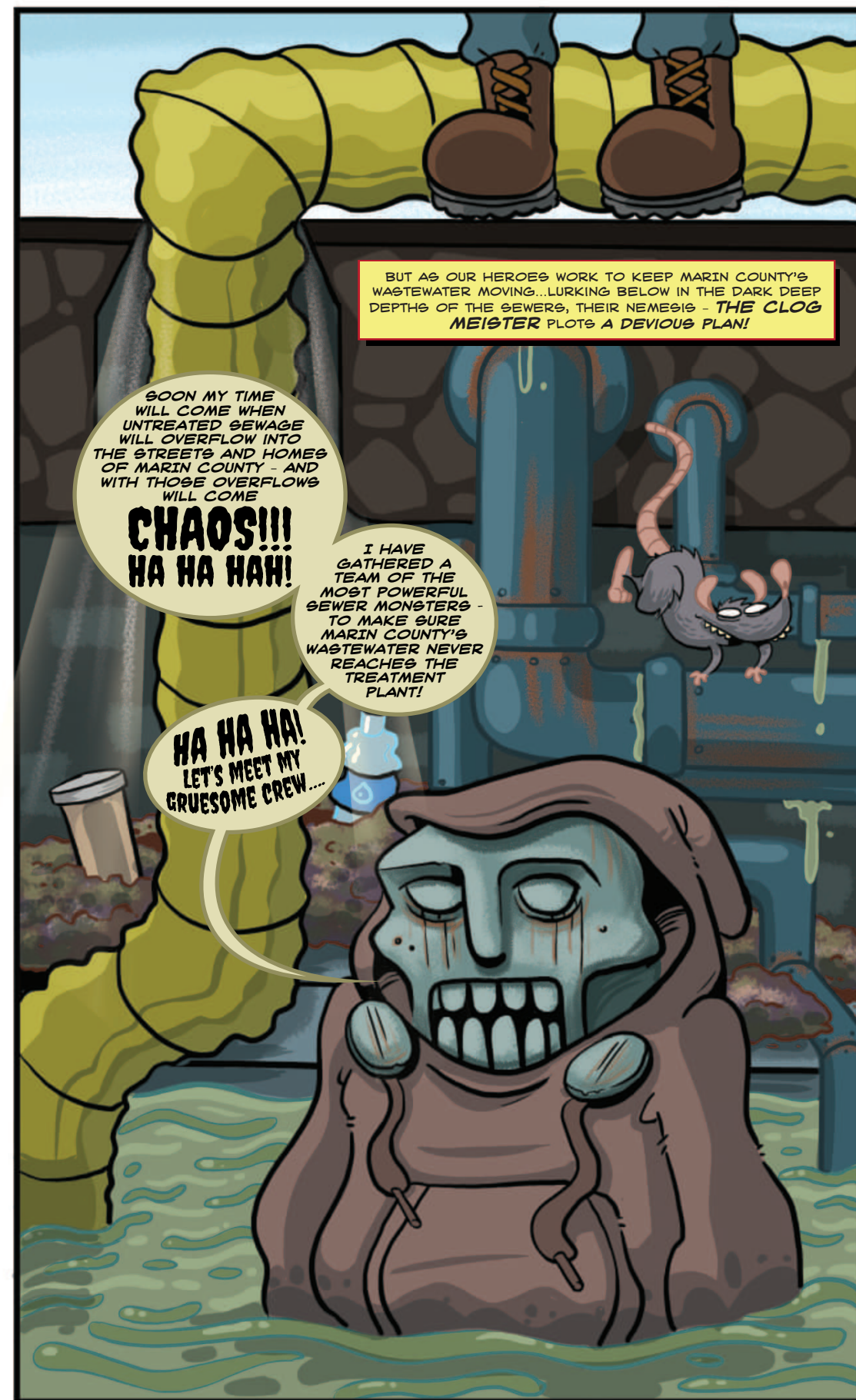
HARMFUL MATERIALS ARE REMOVED AT THE WASTEWATER TREATMENT PLANT. IF IT WASN'T FOR THE TREATMENT PLANT, THE BAY WOULD BECOME A VERY UNHEALTHY PLACE, NOT JUST FOR THE ANIMALS THAT LIVE IN IT, BUT FOR US AS WELL....



AND IF IT WASN'T FOR US, THE WASTEWATER WOULD NEVER REACH THE TREATMENT PLANT!



THE WORK WE DO PROTECTS PUBLIC HEALTH AND THE ENVIRONMENT - WE ARE THE DEFENDERS OF THE BAY!



BUT AS OUR HEROES WORK TO KEEP MARIN COUNTY'S WASTEWATER MOVING...LURKING BELOW IN THE DARK DEEP DEPTHS OF THE SEWERS, THEIR NEMESIS - **THE CLOG MEISTER** PLOTS A DEVIOUS PLAN!

SOON MY TIME WILL COME WHEN UNTREATED SEWAGE WILL OVERFLOW INTO THE STREETS AND HOMES OF MARIN COUNTY - AND WITH THOSE OVERFLOWS WILL COME
CHAOS!!!
HA HA HAH!

I HAVE GATHERED A TEAM OF THE MOST POWERFUL SEWER MONSTERS - TO MAKE SURE MARIN COUNTY'S WASTEWATER NEVER REACHES THE TREATMENT PLANT!

HA HA HA!
LET'S MEET MY GRUESOME CREW....

UP FIRST, THE F.O.G. MONSTER...

F.O.G.
STANDS FOR
FATS,
OILS AND
GREASE!

F.O.G.
IS ONE OF THE
LEADING CAUSES
OF OVERFLOWS IN
MARIN COUNTY.

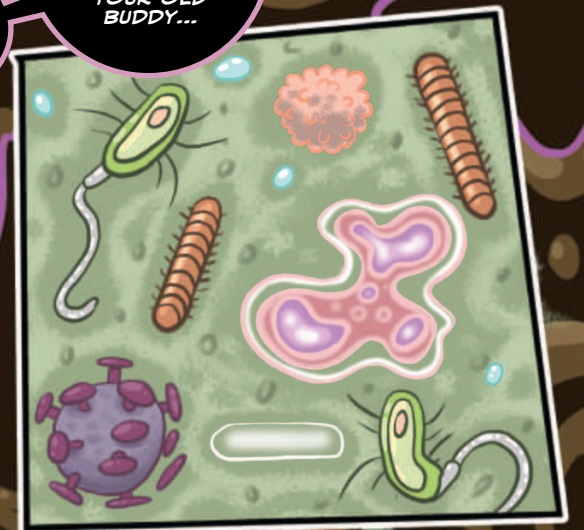
WHEN
PEOPLE POUR
F.O.G. DOWN
THEIR DRAINS THEY
HELP ME GROW
AND CREATE
PROBLEMS FOR
THE SEWER
SYSTEM!

OVER TIME,
F.O.G. BUILDS
UP, HARDENS,
AND CAN EVEN
BLOCK ENTIRE
PIPES!

LEADING
TO RAW SEWAGE
OVERFLOWING INTO
HOMES, YARDS,
STREETS,
AND PARKS!

SO
REMEMBER,
WHEN YOU LET
F.O.G. GO DOWN
THE DRAIN YOU
ARE HELPING
YOUR OLD
BUDDY...

THE
F.O.G.
MONSTER
HA HA HAH!!!



"AND IF YOU THINK I'M A NUISANCE, MEET
MY PARTNER IN SEWER SABOTAGE -
THE TRASH MONSTER!"

EVERYONE
KNOWS A TOILET IS
NOT A TRASH CAN, BUT
LUCKY FOR ME THERE
ARE STILL PEOPLE WHO
FLUSH TRASH EVERY
DAY!

PEOPLE
FLUSH ALL
KINDS OF TRASH
THAT THEY
SHOULDN'T AND THAT
HELPS ME CAUSE
TROUBLE FOR
MARIN COUNTY'S
SEWER
SYSTEM...

TAKE
A LOOK AT
WHAT
I'M MADE
OF...

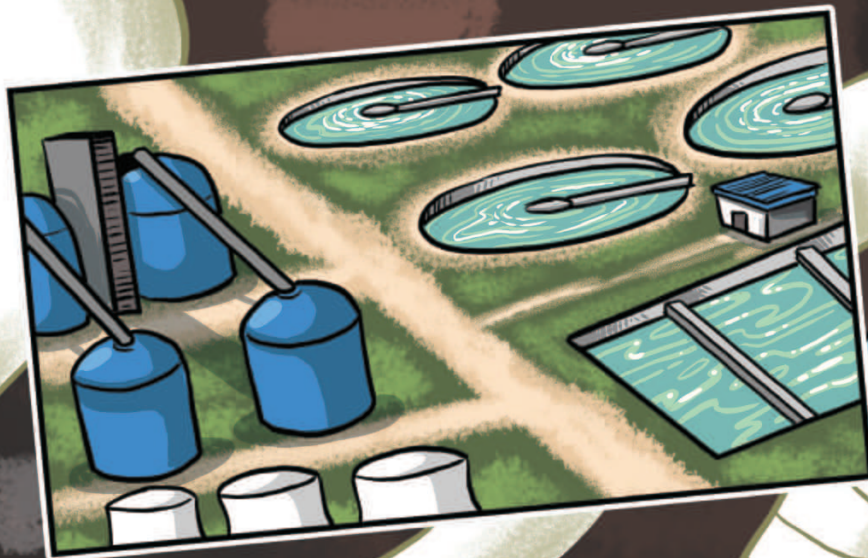
Q-TIPS, FOOD
SCRAPS, SPONGES,
DIAPERS, HAIR, COTTON
BALLS, KITTY LITTER,
RAGS, DENTAL FLOSS,
FACIAL TISSUES, TEA
BAGS, AND FEMININE
PRODUCTS JUST TO
NAME A FEW!

REMEMBER
- WHEN YOU PUT
TRASH DOWN THE
TOILET - YOU ARE
HELPING THE

**TRASH
MONSTER!!**



"AND IF YOU THINK TRASH IN YOUR SEWER SYSTEM CAUSES PROBLEMS - MEET MY RIGHT-HAND MONSTER-
THE WIPES MONSTER!"



A LOT OF PEOPLE THINK IT IS OKAY TO FLUSH WIPES -

BUT THE TRUTH IS IT'S NOT - EVEN THOSE LABELED AS FLUSHABLE!!! SINGLE-USE WET WIPES OF ALL TYPES ARE MY SECRET WEAPONS!!

MANY SO CALLED "FLUSHABLE" WIPES CAN CAUSE HARM TO THE SEWER SYSTEM

SINCE MANY WIPES DO NOT BREAK DOWN AFTER BEING FLUSHED, THEY HELP ME GROW, AND GROW AND GROW!

ONCE A GOOD MASS OF WIPES IS GATHERED, WE WREAK HAVOC ON THE SEWER SYSTEM, CREATING OVERFLOWS.

WIPES CAN EVEN WEAVE TOGETHER AND CREATE GIANT RAGS WHICH GET STUCK IN PUMPS, CAUSING DAMAGE TO EQUIPMENT AT THE WASTEWATER TREATMENT PLANT.

REMEMBER WHEN YOU FLUSH WIPES INCLUDING CLEANING WIPES, BABY WIPES, AND MAKEUP WIPES - YOU HELP THE

WIPES MONSTER!

TROUBLE FOR *WTAMC* 3 PRONGED ATTACK!!

NOW
ALL OF OUR
PRACTICE IS
FINALLY GONNA PAY
OFF. WE WILL FINALLY
DEFEAT *WTAMC*; THEY
DON'T KNOW WHO THEY'RE
DEALING WITH. WE ARE
EVERYWHERE!!
NOW LISTEN CAREFULLY
TO OUR MASTER
PLAN TO DEFEAT
THE...

**DEFENDERS
OF THE BAY**

**PHASE ONE-
UNLEASH THE F.O.G.**
FIRST, THE F.O.G. MONSTER
WILL TARGET MARIN COUNTY
DURING A HOLIDAY! WHILE
EVERYONE IS COOKING THEIR
HOLIDAY FOOD THEY WILL
SEND US THEIR FATS, OILS,
AND GREASE DOWN THE DRAIN
- LOTS OF PEOPLE PUT F.O.G.
DOWN THE DRAIN EVEN WHEN
THERE ISN'T A HOLIDAY.
F.O.G. MONSTER MUST SAVE
EVERY DROP THAT COMES
DOWN THE PIPES SO WE CAN
MAKE THE STREETS OF
MARIN COUNTY DIRTY WITH
SEWAGE!

**PHASE TWO-
PILE ON THE TRASH**
NEXT WE WILL PILE ON THE TRASH.
A LOT OF PEOPLE IN MARIN
COUNTY THINK THEIR TOILET IS A
TRASH CAN. THEY FLUSH TRASH
ALL THE TIME. WE ARE GOING
TO GATHER THAT TRASH AND MAKE
A SUPER CLOG - A CLOG SO BIG
THAT IT WILL CREATE A
MASSIVE OVERFLOW!

PHASE THREE - ROLL OUT THE WIPES!!
OUR LAST PHASE WILL BE UP TO YOU, WIPES MONSTER. WE
ALWAYS GET A GOOD SUPPLY OF WIPES! MAKEUP WIPES,
CLEANING WIPES, EVEN BABIES HELP US SEWER VILLAINS OUT
WHEN PARENTS FLUSH BABY WIPES! ONCE YOU HAVE STOCKPILED
ALL OF THE WIPES YOU CAN FIND, MAKE THE BIGGEST WIPE BALL
YOU CAN! NO LETTING THE SEWAGE SLIP BY! WE NEED TO MAKE
A BIG CLOG AND THWART THE DEFENDER'S PLANS!!



THE HOLIDAYS AND FAMILY GATHERINGS ARE MY FAVORITE EVENTS, WITH EVERYBODY COOKING AND RESTAURANTS GETTING PACKED FULL OF ORDERS, EVEN THAT ONE RELATIVE TRYING TO DEEP FRY A TURKEY.

LARGE GATHERINGS LET ME GROW STRONGER AND STRONGER WHEN PEOPLE THINK THEY CAN MAKE THEIR FATS, OILS, AND GREASE DISAPPEAR DOWN THE DRAIN.

REALLY THEY ARE ONLY MAKING ME

STROOOONGER!

MMOOOM?

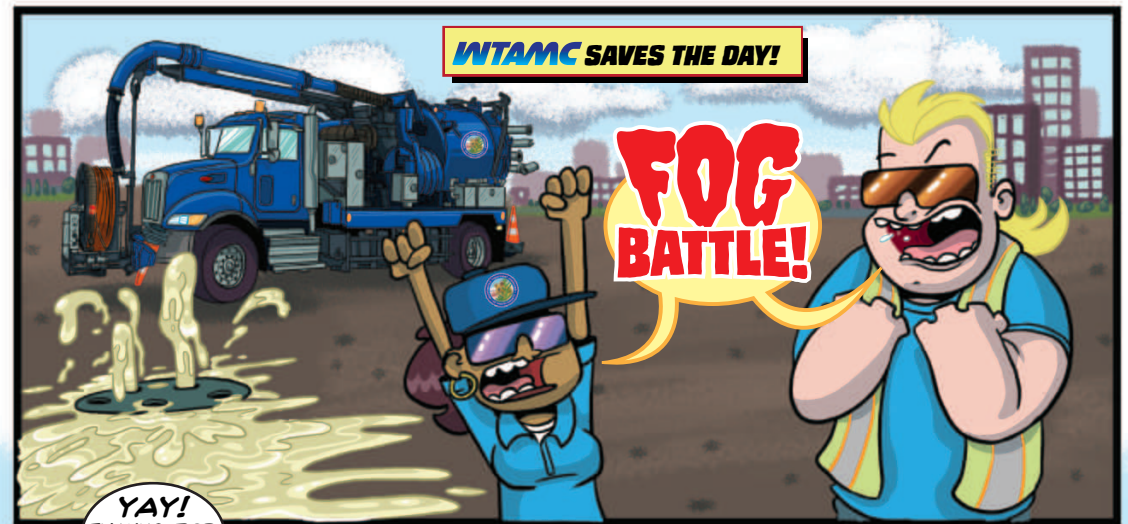
DAAAAD?

**HA!
HA!
HA!**

THE FOG MONSTER BEGAN PLANNING HIS ATTACK FOR THE HOLIDAYS WHEN ALL OF WTAMC WAS FAST ASLEEP. HE BEGAN GATHERING ALL THE FATS, OILS, AND GREASE PEOPLE PUT DOWN THEIR DRAINS... WRAPPING THE BLOBS LIKE A PRESENT UNTIL IT GOT SO BIG HE COULD BLOCK THE WHOLE PIPE!



VACCON ACTIVATE!



WTAMC SAVES THE DAY!

FOG BATTLE!

YAY!
THANKS FOR SAVING OUR HOLIDAY!



THE WTAMC TEAM USES THE VACCON TO SUCK OUT ALL THE TRAPPED F.O.G. AND SEWAGE, WHICH DISLODGES PART OF THE F.O.G. MONSTER. THE FOG MONSTER IS NO MATCH FOR WTAMC.

NNNOOOOOOOOOOOOO!!!!

DON'T FEED THE F.O.G. MONSTER!

YOU CAN DO YOUR PART TO PROTECT THE SEWERS BY PUTTING COOLED FATS, OILS, AND GREASE INTO THE GREEN ORGANICS BIN WHERE IT WILL GO ON TO CREATE COMPOST.

RESTAURANTS CAN HELP SAVE THE DAY BY HAVING THEIR GREASE TRAPS REGULARLY INSPECTED AND MAKING SURE THAT F.O.G. IS HAULED AWAY. REMEMBER...EVEN LITTLE BITS OF BACON GREASE FEED THE F.O.G. MONSTER!



ELSEWHERE...
THE TRASH MONSTER AND
HIS CLOG ARE GROWING
IN THE SEWERS BELOW...

EVENTUALLY SPILLING
GARBAGE AND RAW SEWAGE
OUT ONTO THE STREETS.

ATTENTION
ALL UNITS!
WE HAVE A SEWER
OVERFLOW THAT
LOOKS LIKE IT IS
CAUSED BY
FLUSHED
TRASH!

WE NEED ALL
AVAILABLE
PERSONNEL AT
ONCE AND
BRING...

LET'S
DO
THIS.

THE RODDER!



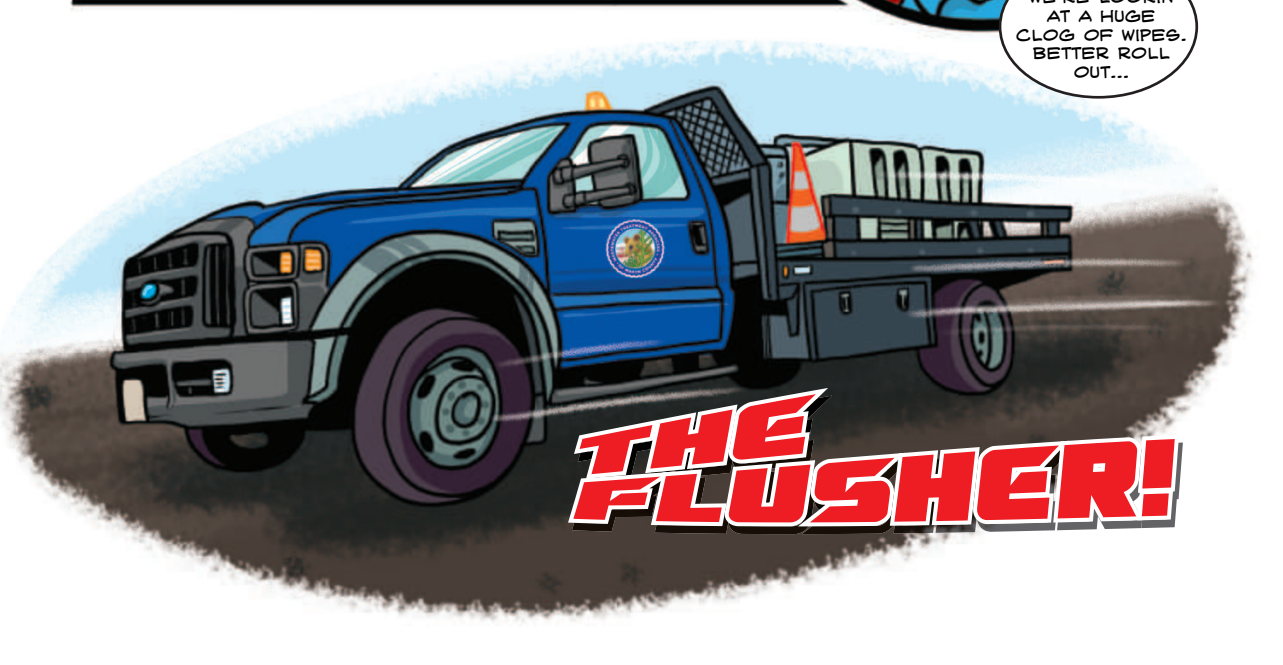


CLOGS -
EXPENSIVE -
DAMAGE TO PUMP
STATIONS AND THE
WASTEWATER
TREATMENT PLANT -
INCREASED RATES
TO REPAIR EQUIP-
MENT THAT GETS
DAMAGED!

I CAN'T
WAIT!

WTAMC
CAN'T BE
EVERYWHERE
AT ONCE!!

TEAM...
WE'RE LOOKIN
AT A HUGE
CLOG OF WIPES.
BETTER ROLL
OUT...



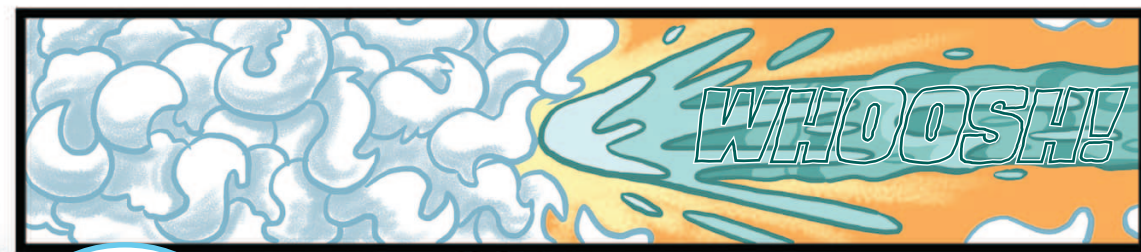
**THE
FLUSHER!**



I'M MADE
UP OF
MANY WIPES -
YOU CAN'T
BEAT US
ALL!



WE'LL
SEE
ABOUT
THAT



WHOOSH!!



YOU'LL
NEVER REALLY
GET RID OF ME!!
I'LL JUST COME
BACK SOMEWHERE
ELSE IN THE LINES!!
PEOPLE WILL
ALWAYS FEED
MEEEEEE...

HA!
HA!
HA!

HA!
HA!
HA!

YOU
CAN HELP
US GET RID
OF THE WIPES
MONSTER
FOR
GOOD!

PUT WIPES
WHERE THEY
BELONG,
IN THE TRASH!

EVERY TIME YOU
FEED THE WIPES
MONSTER, YOU ARE
HELPING HER MAKE
PROBLEMS FOR
EVERYONE. WIPES ARE
NOT GOOD FOR THE
SEWER SYSTEM!

GRRAAAA!!!
ARE YOU TELLING ME
THAT WTAMC STOPPED
EACH OF YOU BEFORE
YOU COULD COMPLETE
OUR PLAN?"

CURSE YOU
WTAMC
WE'LL BE
BACK!!



WE HAD
A LOT OF
ACTION IN THE
SEWERS TODAY. I
EVEN SAW THE
TRASH MONSTER
WHO HAS BEEN
LAYING LOW.

AND THE
WIPES
HAD
A MAKEOVER
FROM LAST
TIME WE SAW
HER

WE WERE
ATTACKED ON
ALL SIDES! BUT
WE FIGURED OUT
HOW TO DEFEAT
THEM.

LET'S
KEEP UP OUR
PREVENTATIVE
MAINTENANCE SO
WE CAN BE ONE
STEP AHEAD OF
THE MONSTERS.



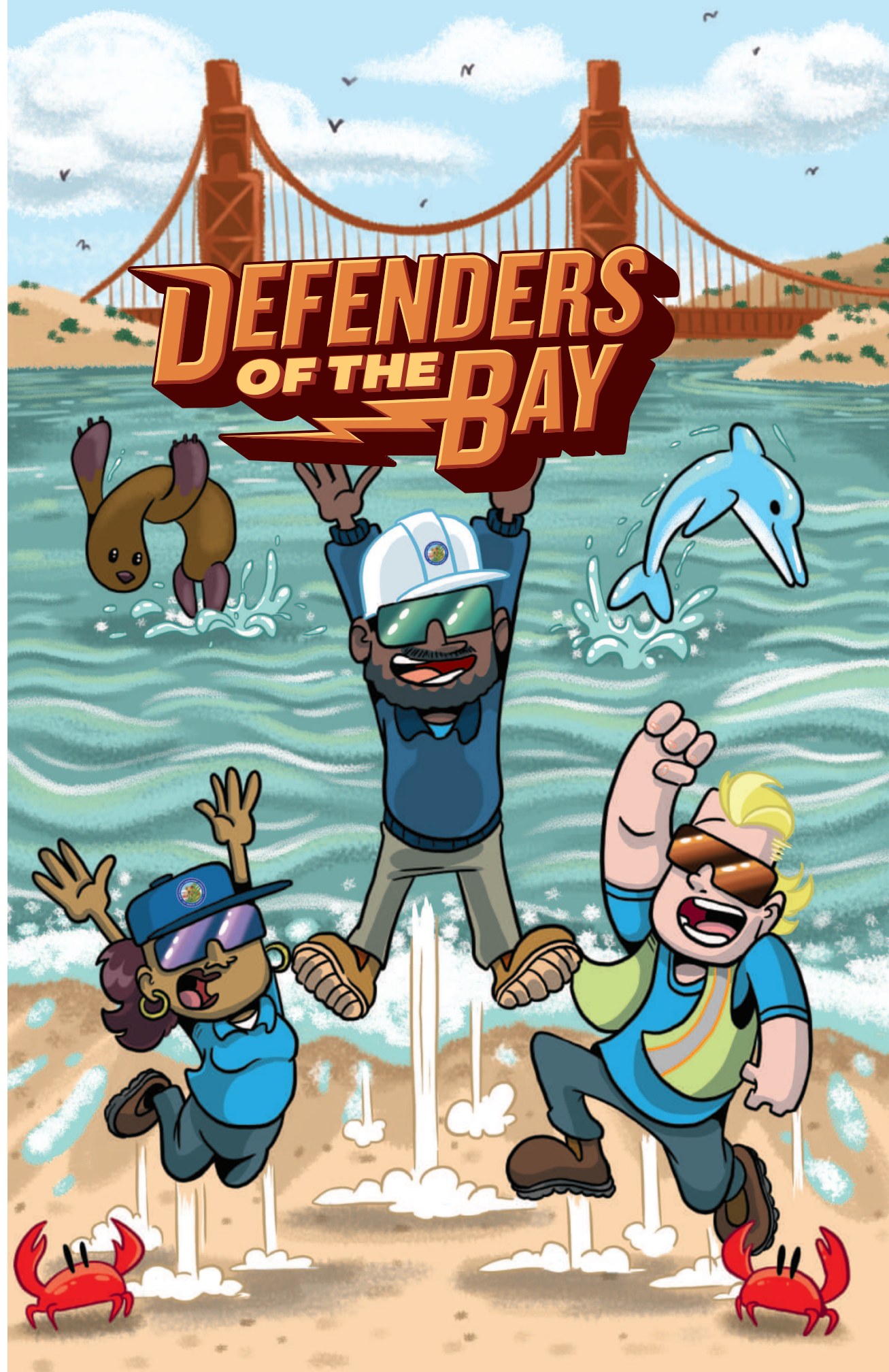
YOU
ARE OUR LATEST
RECRUIT. YOU CAN HELP
US EVERY DAY IN
DEFENDING THE SEWERS
AND DEFENDING THE BAY
BY KEEPING THESE THINGS
LIKE, **WIPES, FATS, OILS,**
AND GREASE, AND
TRASH OUT OF THE
PIPES BY ONLY
FLUSHING
THE 3 P'S.

**PEE,
POOP, AND
TOILET
PAPER**

HELP
DEFEND AGAINST
UNWANTED SEWER
CLOGS

AND YOU
TO CAN BE
ONE OF
THE...

DEFENDERS OF THE BAY



FIGHT F.O.G.

Help Keep **Fats, Oils,**
and **Grease** Out of
Your Drain!

**COOL IT
CAN IT
COMPOST IT!**

Prevent Sewer Backups in
Your Home, Business
and Neighborhood



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GLOSSARY OF TERMS



Aerial: of, relating to, or occurring in the air.

Bypass: a channel carrying a fluid around a part and back to the main stream.

CCTV: closed-circuit television.

Chaos: a state of utter confusion.

Debris: something discarded like trash.

Devious: deceptive, evil.

Discharged: to unload.

Dislodges: to force out of a secure or settled position.

Easement: an interest in land owned by another that entitles its holder to a specific limited use.

Fatbergs: a large mass of fat and solid waste that collects in a sewer system.

Formidable: causing fear or dread.

Gruesome: inspiring horror or repulsion.

Havoc: great confusion and disorder.

Haywire: being out of order or having gone wrong.

Horsetail: a mass of roots.

Inception: an act, process, or instance of beginning.

Lurking: to lie in wait in a place of concealment especially for an evil purpose.

Nemesis: a formidable opponent.

Nuisance: one that is annoying, unpleasant, or obnoxious.

Overflow: to fill a space to capacity and spread beyond its limits.

Phase: a distinguishable part in a course, development, or cycle.

Preventative: devoted to or concerned with preventing something from happening

Pump Station: a place where pumps are located to lift wastewater to higher elevations.

Recruit: to enlist as a member of an organization.

Rodder: a specialized vehicle that is used to maintain the sewer system.

Sewer System: a group of underground pipes that carry wastewater.

Stockpiled: a gradually accumulated reserve of something.

Thwart: to oppose successfully.

Treatment Plant: a place where sewage is cleaned so that it is not harmful or dangerous to the environment.

Untreated Sewage: wastewater that has not been cleaned at a treatment plant.

VacCon: a specialized vehicle that is used to maintain the sewer system.

Villains: a deliberate scoundrel, or criminal.

Wastewater: water that has been used. It includes substances such as human waste, food scraps, oils, soaps, and chemicals.

**Definitions are from
www.merriam-webster.com/dictionary*



WASTEWATER 100

2. **CMSA**

has over **70 pump stations**, more than **450 miles** of sewer pipelines located throughout the service area.

4. NSD was chartered in 1925, has **39 pump stations**, over **235 miles** of sewer pipelines & an **800-acre** reclamation facility.

12. SASM has 9 miles of sewage pipes, 3.5 miles of force mains and **6 pump stations**.



7. SD5 has **24 pump stations**, two treatment plants and **34 miles** of sewer lines.



10. WTAMC is made up of **6 Marin County Wastewater Treatment Plants**. They are:

Central Marin Sanitation Agency (CMSA)

Novato Sanitary District (NSD)

Las Gallinas Valley Sanitary District (LGVSD)

Sewerage Agency of Southern Marin (SASM)

Sausalito Marin City Sanitary District (SMCSD)

Sanitary District No. 5 of Marin County (SD5)

17. **SMCSD**

has 10 pump stations, maintains four pump stations for the City of Sausalito and **20 miles** of sewer pipelines.

20. WTAMC is an acronym for the six **Wastewater Treatment Agencies of Marin County**.

Marin County created **Sanitary District #5** on March 22, 1922. Sanitary District #5's main function was garbage collection until the late 1940's when the effect of dumping untreated sewage into the bay became a topic of interest.

49.



55.

The amount of wastewater discharged daily from the 6 wastewater treatment agencies of Marin County can fill **232 Million** soda bottles (16 oz. size)

59.

Toilet Paper Waste: If you lined up the toilet paper used by the average person each year, it would stretch about **30 feet!** That's a lot of paper going down the drain!

79. An aerial pipeline is a sewer main that crosses creeks and streams above ground.



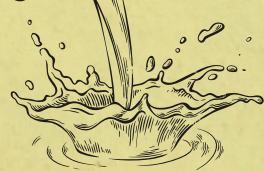
92. LGVSD has **28 pump stations**, **105 miles** of sewer pipelines.



88.

The average person flushes the toilet **2,500 times** per year!

71. A single flush from a typical modern toilet uses between **1.6 and 3.5 gallons** of water, while older models can use up to **7 gallons**.



84. A large mass of roots removed from a sewer line is called a **horsetail** because the mass of debris often resembles a horse's tail.



100.

CMSA is a Joint Powers Agency formed in 1979 comprised of San Rafael Sanitary District, Ross Valley Sanitary District, Sanitary District No. 2 and the City of Larkspur. **CMSA became operational in January 1985.**



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