



Maryland Department of the Environment

15-MM & 16-MA NOI and SWPPP Overview

**General Permit for Mineral Mines, Concrete and
Asphalt Plants (15MM / NPDES MDG49) and**

**General Permit for Marinas (16MA / NPDES
MDG99)**





Maryland's General Permits

- Permits **expire every 5 years** and must be re-issued.
- MDE has renewed the MM and MA is working on several other GP renewals at this time.

	15MM	16MA
Previous Expired	April 30, 2015	February 28, 2016
New Permit Effective	May 1, 2017	August 1, 2017
Renewals Due	November 1, 2017	November 1, 2017



Registration Process

- Notice of Intent (NOI)
 - Original Signed Version
- Stormwater Pollution Prevention Plan (SWPPP)
 - Electronic Version
- Payment (if required)
 - To be sent with NOI

(If you submit at the same time, registration is much faster)



NOI Format Change



Formatting the NOI in this way allows MDE to quickly provide coverage, and quickly facilitate modifications in coverage.

- The Department will provide a customized registration letter, **that provides actual limits or benchmarks required by each outfall**. This will ease understanding of how the permit applies to the facility.
- Issued registrations will be downloadable from the web

Reports (NetDMKS) (see [Permit Part V.B.4](#)).

The facility is registered for the following discharges:

Outfall Specific Benchmark Monitoring and/or Limits for Outfall 001:
Your registration is subject to Benchmark Monitoring and Numeric Limits as specified below. If you need update these, send in an updated NOI and a new registration letter will be provided.

Table E-2 Subsector E2 Benchmarks (Concrete and Gypsum Product Manufacturers SIC 3271-3275)

PARAMETER	Benchmark	Units	Frequency	Sample Type
Total Suspended Solids (TSS)	100	mg/L	1/quarter	Grab

Table E-4 Numeric Limits for Concrete Washout from Concrete Mixer Trucks, Moulds, or Equipment

PARAMETER	Limits		UNITS	Monitoring Frequency	Sample Type
	Monthly Average REPORT	Daily Maximum REPORT			
Flow			gpd		measured
pH	6.5-8.5	6.0-9.0	s.u.		
Total Suspended Solids (TSS)	30	60	mg/L	1/month	grab
Oil & Grease		15 ^(a)	mg/L		

No visible sheen is permissible on any water discharging from the facility.
(a) Pertains to SIC 3272 concrete plants using molds

Outfall Specific Benchmark Monitoring and/or Limits for Outfall 002:
Your registration is subject to Benchmark Monitoring and Numeric Limits as specified below. If you need update these, send in an updated NOI and a new registration letter will be provided.

Table E-2 Subsector E2 Benchmarks (Concrete and Gypsum Product Manufacturers SIC 3271-3275)

PARAMETER	Benchmark	Units	Frequency	Sample Type
Total Suspended Solids (TSS)	100	mg/L	1/quarter	Grab

The most recent version of Title 40CFR, Part 136 – “Guidelines Establishing Test Procedures for Analysis



NOI Section I

SECTION I: Facility Operator Information		
(A) Owner/Operator Name		
(B) Primary Contact Name	Title	
Telephone Number	Email Address	
(C) Mailing Address		
Street		
City	State	ZIP Code
(D) IRS Employer Identification Number (EIN)	(E) Ownership Type - check below	
	<input type="checkbox"/> Private <input type="checkbox"/> Federal <input type="checkbox"/> State/Local	
(F) Worker's Compensation Insurance:	Insurance Company Name	Policy Number



Section II

SECTION II: Facility Information			
(A) Name of Facility			
(B) Facility Address (if different than your mailing address)			
Street			
City	State	ZIP Code	County
	MD		



Section II (continued 15MM)

SECTION II (continued): Facility Information		
<p>(C) Provide the primary four-digit SIC code that best represents the principal products or activities provided by the facility, and any co-located SIC codes.</p>		
Primary SIC: <input type="text"/>	Co-located SICs: <input type="text"/> , <input type="text"/> , <input type="text"/>	Description of your primary industrial activity:
(D) Latitude (in decimal degrees)	Longitude (in decimal degrees)	(E) <input type="checkbox"/> Check here if you a new discharger. If not a new discharger, provide the previous registration (e.g., 10MM1234)
(F) Total property size <input type="text"/> (in acres)	(G) <input type="checkbox"/> Check if your facility is inactive and unstaffed.	
(H) Identify the 8 digit identifier(s) and name(s) of the receiving water(s). 		
Identify which of these impairments have been identified for the receiving water(s). (Category 4a, 4b, 4c, or 5 waterbodies)	<input type="checkbox"/> Bacteria <input type="checkbox"/> Biological <input type="checkbox"/> Ions <input type="checkbox"/> Metals <input type="checkbox"/> Nutrients <input type="checkbox"/> PCBs	<input type="checkbox"/> Pesticides <input type="checkbox"/> pH <input type="checkbox"/> Stream Modifications <input type="checkbox"/> Sediments <input type="checkbox"/> Toxics <input type="checkbox"/> Trash
<input type="checkbox"/> Check here if any of the receiving water(s) are listed as high quality (Tier 2)		
Check if stream is protected for <input type="checkbox"/> Use III <input type="checkbox"/> Use IV		
Identify your local MS4 jurisdiction or N/A if your facility is not within an MS4:		



Your SIC? (Primary and secondary)



**UNITED STATES
DEPARTMENT OF LABOR**

Occupational Safety and Health Administration

[ABOUT OSHA](#) ▾ [WORKERS](#) ▾ [EMPLOYERS](#) ▾ [REGULATIONS](#) ▾ [ENFORCEMENT](#) ▾ [TOPICS](#) ▾ [NEWS](#)

Standard Industrial Classification (SIC) System Search

[STATISTICS & DATA](#) | [SIC MANUAL](#)

This page allows the user to search the 1987 version SIC manual *by keyword*, to access descriptive information for a...

Enter a SIC CODE:

Enter the search keyword(s):



Industrial Activity-Sectors

Primary SIC	Secondary SIC
Sector D – Asphalt Paving and Roofing Materials Manufacturers and Lubricant Manufacturers	Sector A – Timber Products (Natural Wood Waste, Logging)
Sector E – Glass, Clay, Cement, Concrete, and Gypsum Product Manufacturing	Sector P – Land Transportation
Sector F – Primary Metals	Sector C – Chemical and Allied Products Manufacturing (Composting)
Sector L – Landfills and Land Application Sites (Refuse Disposal including Crushing Concrete/Asphalt)	
Sector J – MINERAL MINING AND DRESSING.	
Sector AD –Designated by the Department (HydroDemolition)	





Concrete / Asphalt Recycling

NEW

To reduce confusion on which permit is required we included specific references in this permit:

"Concrete or Asphalt Recycling" we list **under SIC 4953 (Refuse Systems)** based on Northeast Recycling Council document.

Other common SICs

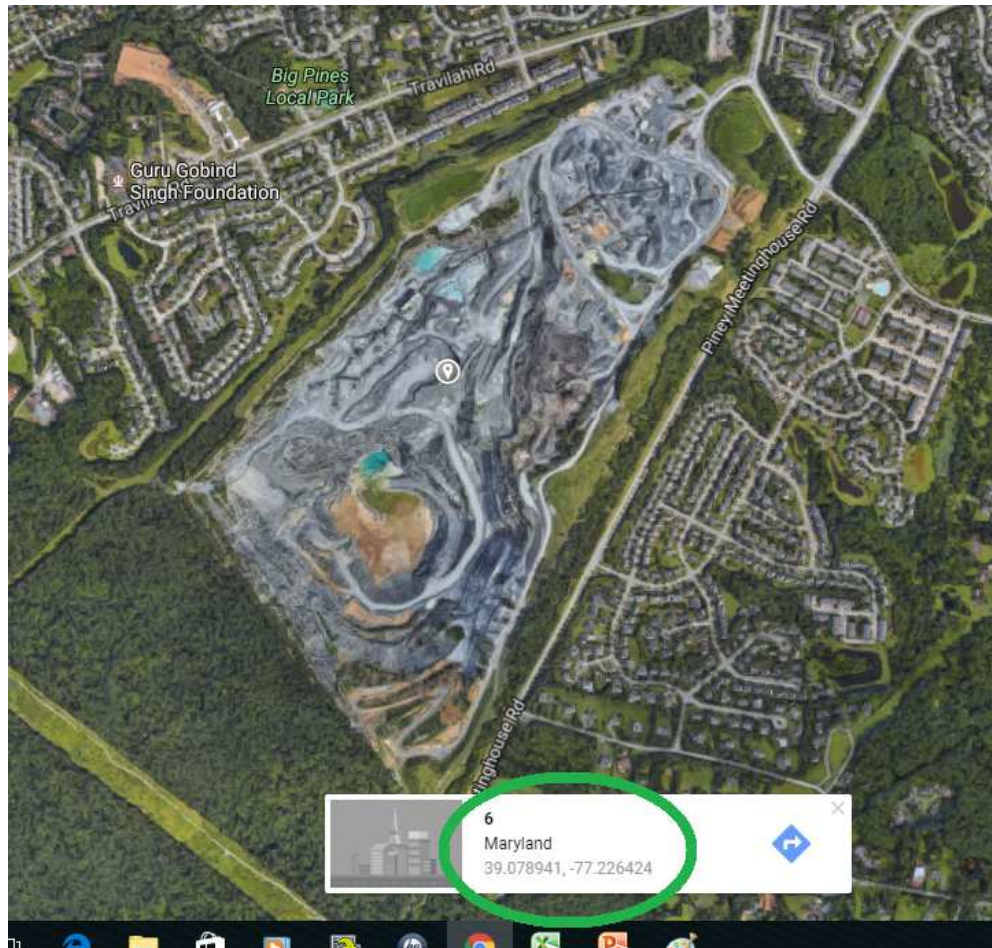
4212 Local Trucking without Storage

4213 Trucking Except Local

4214 Local Trucking with Storage



Latitude / Longitude?



Find your site on Google Maps

Right Click on Location

Select "What's Here?"

Latitude is first "39.078941"

Longitude second "-77.226424"



Inactive and Unstaffed

This classification exempts many of the requirements of the permit. For mines that are not active, which are stabilized, this exempts monitoring and certain inspections.



This must be noted on your NOI, and if it changes, you must submit a new NOI with the applicable limits.



Your Watershed?

You will find your property on the map and click on the nearest stream or waterbody.

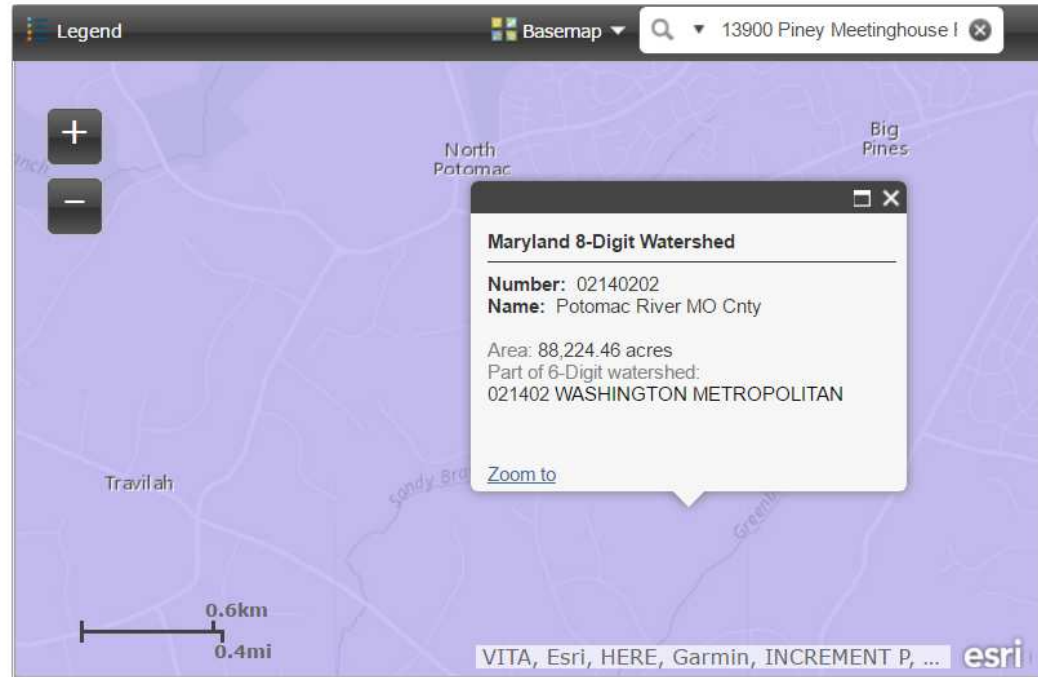
This example is “02140202” or the “Potomac River MO Cnty”.



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-Z
n
MDL

Map of Maryland's 8-Digit Watersheds

Please note that it may take several seconds for the map to load and refresh.





Impairments?

»

1

1

Click [here](#) to return to the Integrated Report main page.

Water Quality Map Links

New Integrated Report Water Quality Map! - This map allows users to view layers for all pollutants on one map. It also allows the user to add other layers, view information in tabular form, and export assessment information to a spreadsheet.

Single Pollutant-Type Maps

- **BACTERIA** - This map displays all bacteria assessment information including assessments for both tidal and non-tidal waters, designated bathing beaches, and shellfish harvesting waters.
- **BIOLOGICAL** - This map displays all biological assessment information including assessments for both tidal and non-tidal waters.
- **IONS** - This map displays all ion (e.g. chlorides, sulfates) assessment information. Only non-tidal flowing waters have been assessed. *Note: Some of the ion assessments overlap spatially.*
- **METALS** - This map displays all metals (e.g. chromium, mercury, etc) assessment information including assessments for both tidal and non-tidal waters as well as impoundments. *Note: Many of the specific metal assessments overlap spatially.*
- **NUTRIENTS** - This map displays all nutrient-related assessments for rivers, impoundments and



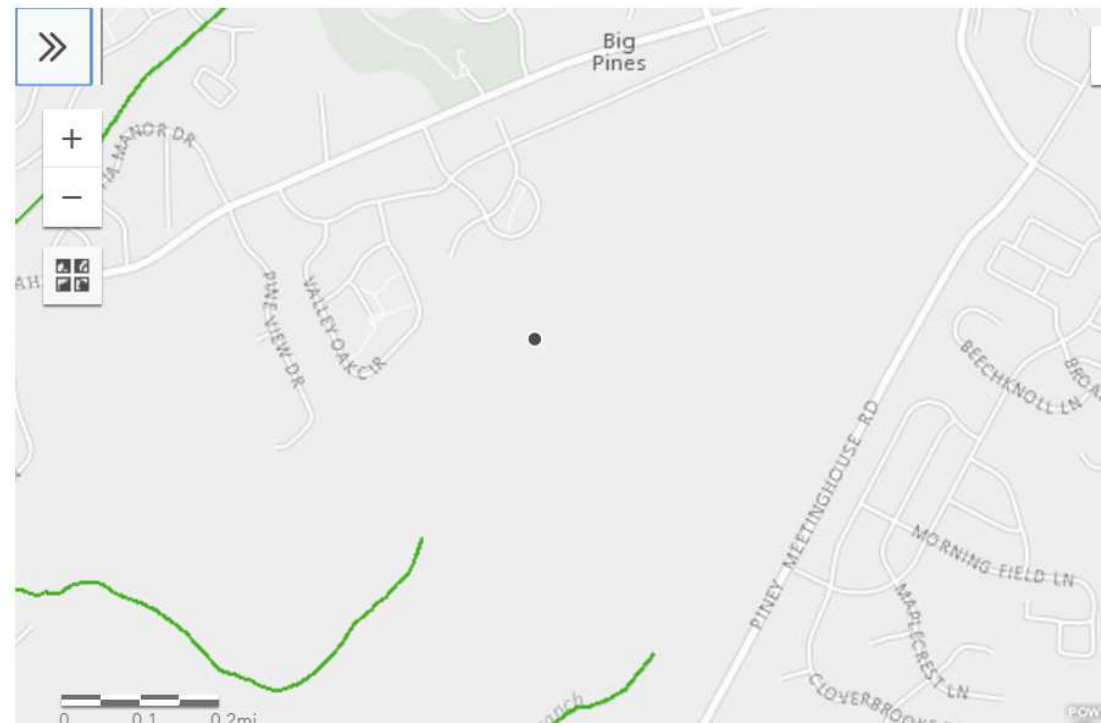
Impairments?

You will find your property on the map and click on the nearest stream or waterbody.

This example is green. Click on that double arrow in upper left hand to find out what it means.

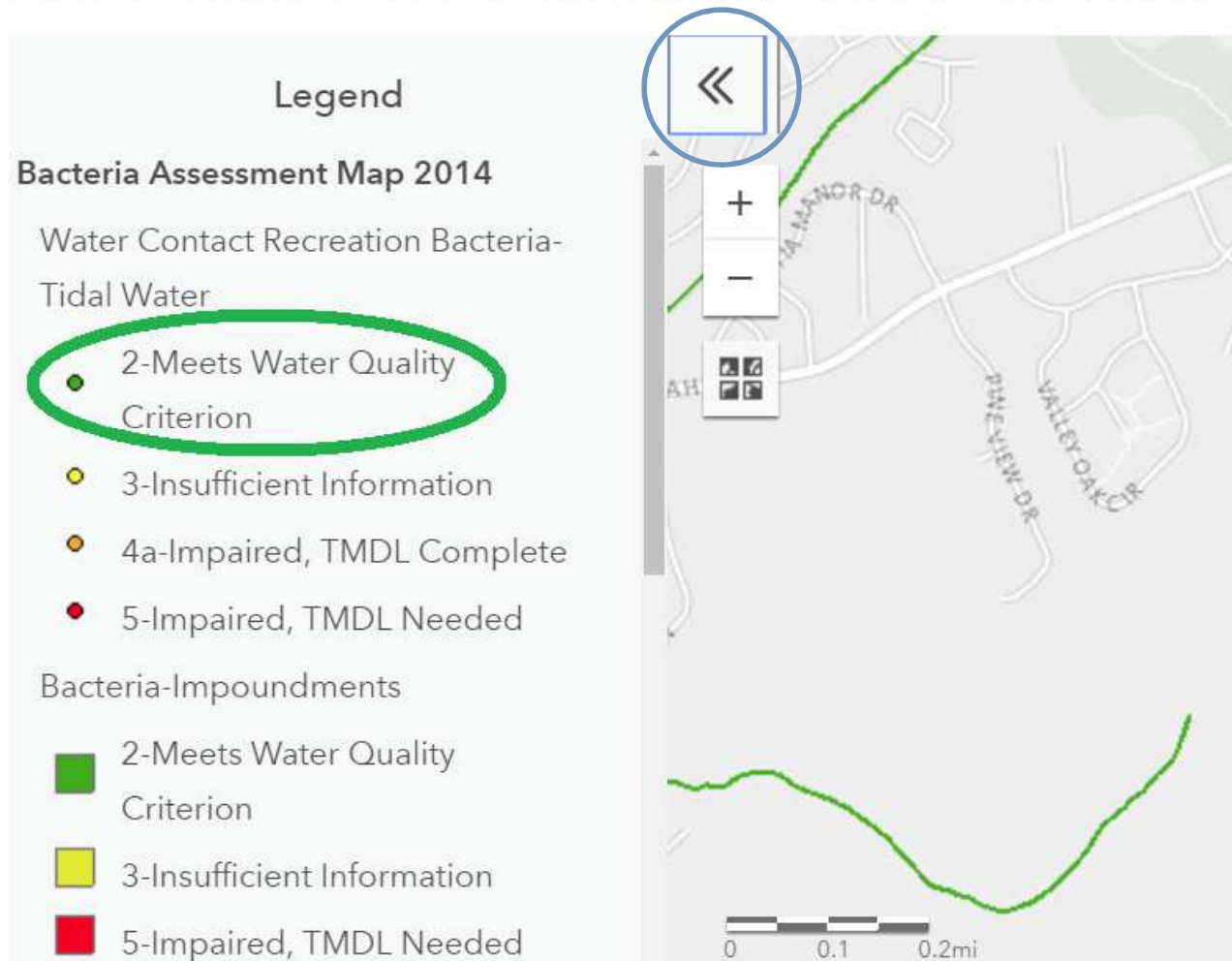
Integrated Report Surface Water Quality Map: Bacteria Assessments

Please note that it takes about 30 seconds for the map to populate with information.





Please note that it takes about 30 seconds for the map to populate with information.





Tier II – High Quality Waters

Notice where the high quality water are.

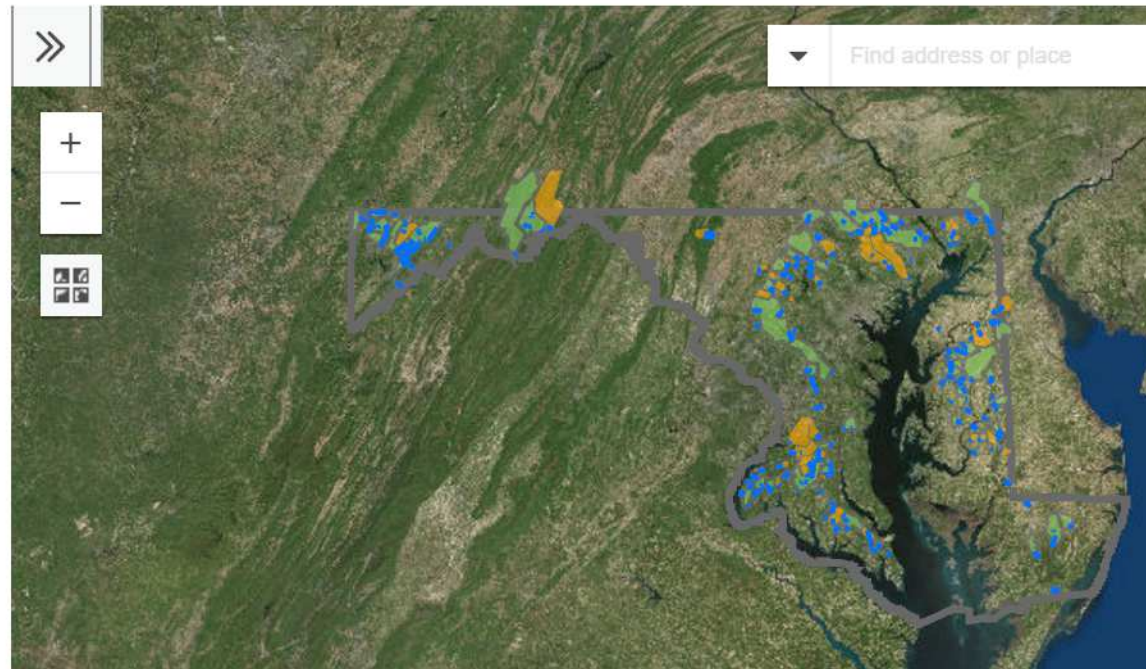
None in the actual Bay.

Some smaller watersheds and tributaries are.

Zoom towards your facility to see if it is high quality.

Tier II High Quality waters map

Please note that it may take several seconds for the map to fully load.





Designated Use

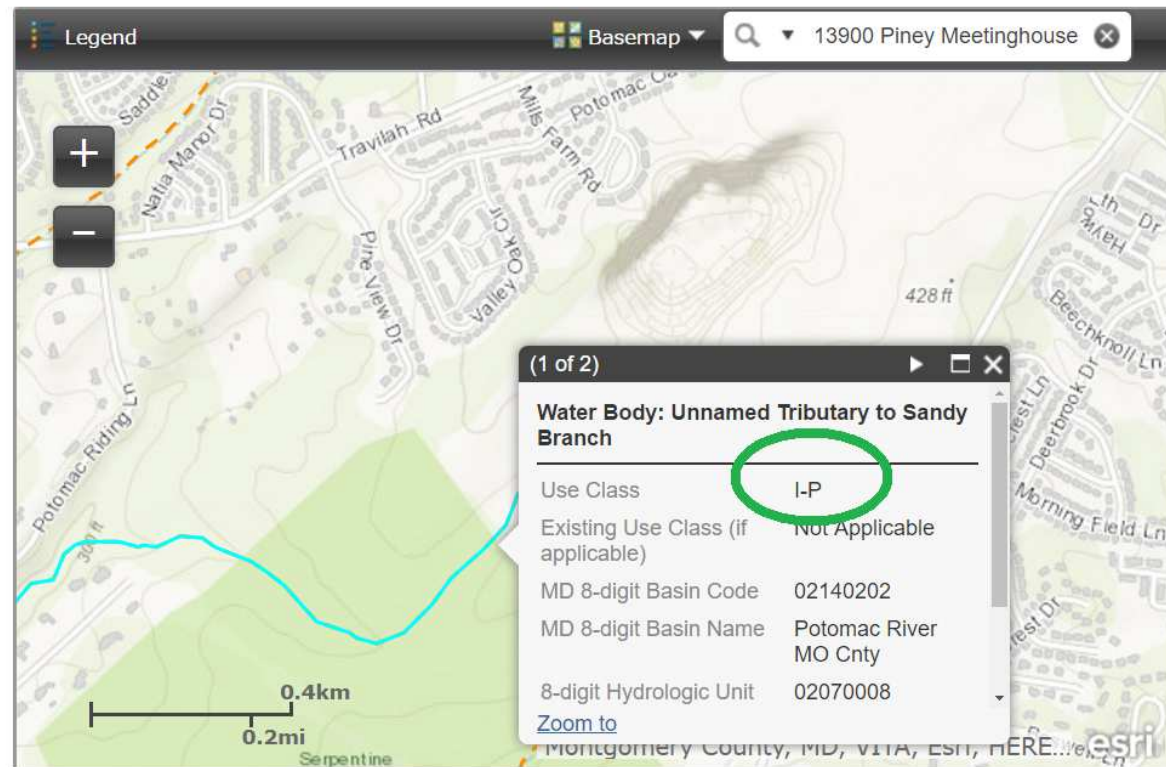
Enter the address of the operation.

Notice the coding on the receiving stream.

Either use the Legend or click on the stream to Identify the Use.

This one is I-P.
(not III or IV)

(Note: This text is red and partially obscured in the original image.)



[View Larger Map](#)



Section II (continued 16MA)

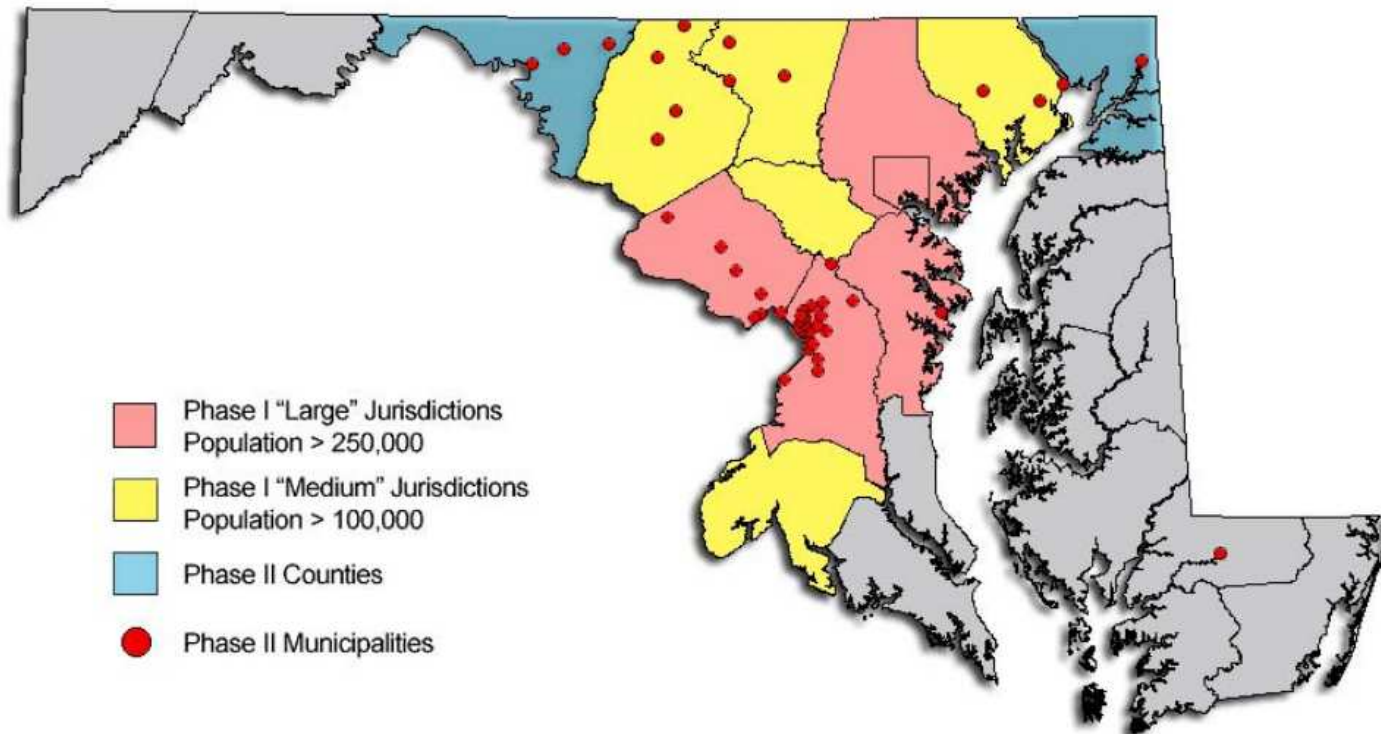
SECTION II (continued): Facility Information			
(C) Latitude (in decimal degrees)	Longitude (in decimal degrees)	(D) <input type="checkbox"/> Check here if you a new discharger. If not a new discharger, provide the previous registration (e.g., 10MA1234)	
(E) Total property size (in acres)		(F) <input type="checkbox"/> Check if your facility is inactive and unstaffed.	
(G) Identify the 8 digit identifier(s) and name(s) of the receiving water(s) – <i>see instructions on Page 5.</i> _____			
Identify which of these impairments have been identified for the receiving water(s). (Category 4a, 4b, 4c, or 5 waterbodies)		<input type="checkbox"/> Bacteria <input type="checkbox"/> Biological <input type="checkbox"/> Ions <input type="checkbox"/> Metals <input type="checkbox"/> Nutrients <input type="checkbox"/> PCBs	<input type="checkbox"/> Pesticides <input type="checkbox"/> pH <input type="checkbox"/> Stream Modifications <input type="checkbox"/> Sediments <input type="checkbox"/> Toxics <input type="checkbox"/> Trash
<input type="checkbox"/> Check here if any of the receiving water(s) are listed as high quality (Tier 2)			
Identify your local MS4 jurisdiction or N/A if your facility is not within an MS4: _____			
(H) What maintenance activities are performed in an exposed (non-enclosed) area? <i>check all that apply</i>			
<input type="checkbox"/> Motor repair	<input type="checkbox"/> Painting	<input type="checkbox"/> Grinding	<input type="checkbox"/> Scraping
<input type="checkbox"/> Sand / Soda Blasting	<input type="checkbox"/> Chemical Stripping	<input type="checkbox"/> Pressure washing	
(I) Boat access to water provided by		<input type="checkbox"/> Ramp	<input type="checkbox"/> Lift
		<input type="checkbox"/> Railway	



Your MS4?

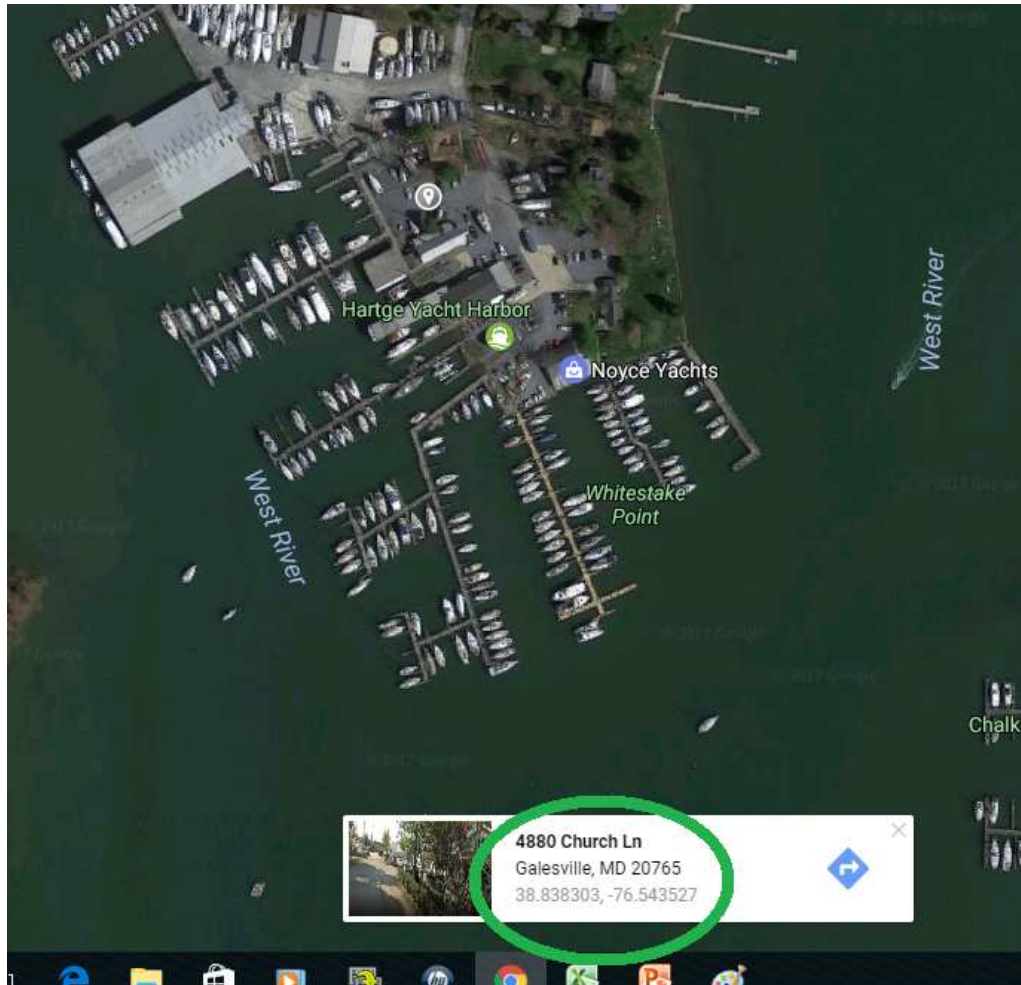
This is the jurisdiction responsible for Stormwater in your area. If you operate in that jurisdiction assume you are discharging into their system. They are to get a copy of your Registration Letter.

NPDES Phase I & II Jurisdictions





Latitude / Longitude?



Find your site on Google Maps

Right Click on Location

Select "What's Here?"

Latitude is first "38.838303"

Longitude second "-76.543527"



Your Watershed?

You will find your property on the map and click on the nearest stream or waterbody.

This example is “02131004” or the “West River”.

HOME ABOUT MDE AIR LAND WATER MARYLANDER PERMITS NEWSROOM

Map of Maryland's 8-Digit Watersheds

Please note that it may take several seconds for the map to load and refresh.

Legend Basemap 4880 CHURCH LN, GALES

Map showing watershed boundaries and roads. A pop-up window displays details for a watershed:

- Number: 02131004
- Name: West River
- Area: 19,805.80 acres
- Part of 6-Digit watershed: 021310 WEST CHESAPEAKE BAY

Scale: 0.4km, 0.2mi



Impairments?

»

1

1

Click [here](#) to return to the Integrated Report main page.

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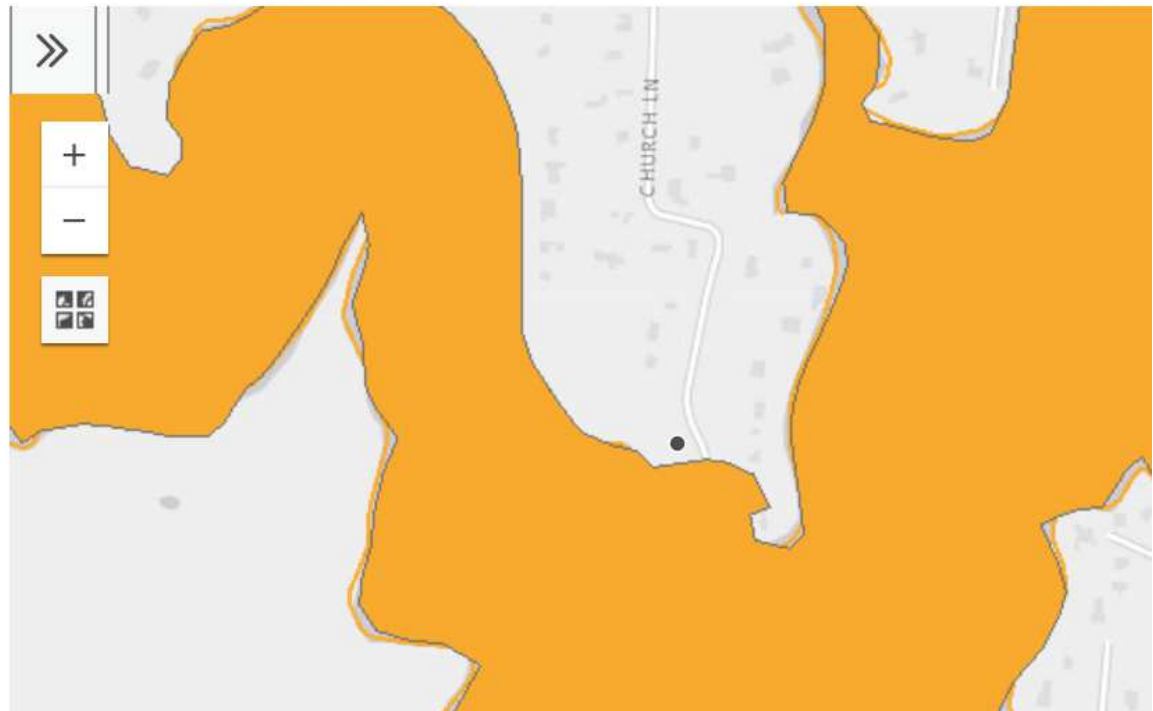
Impairments?

You will find your property on the map and click on the nearest stream or waterbody.

This example is orange. Click on that double arrow in upper left hand to find out what it means.

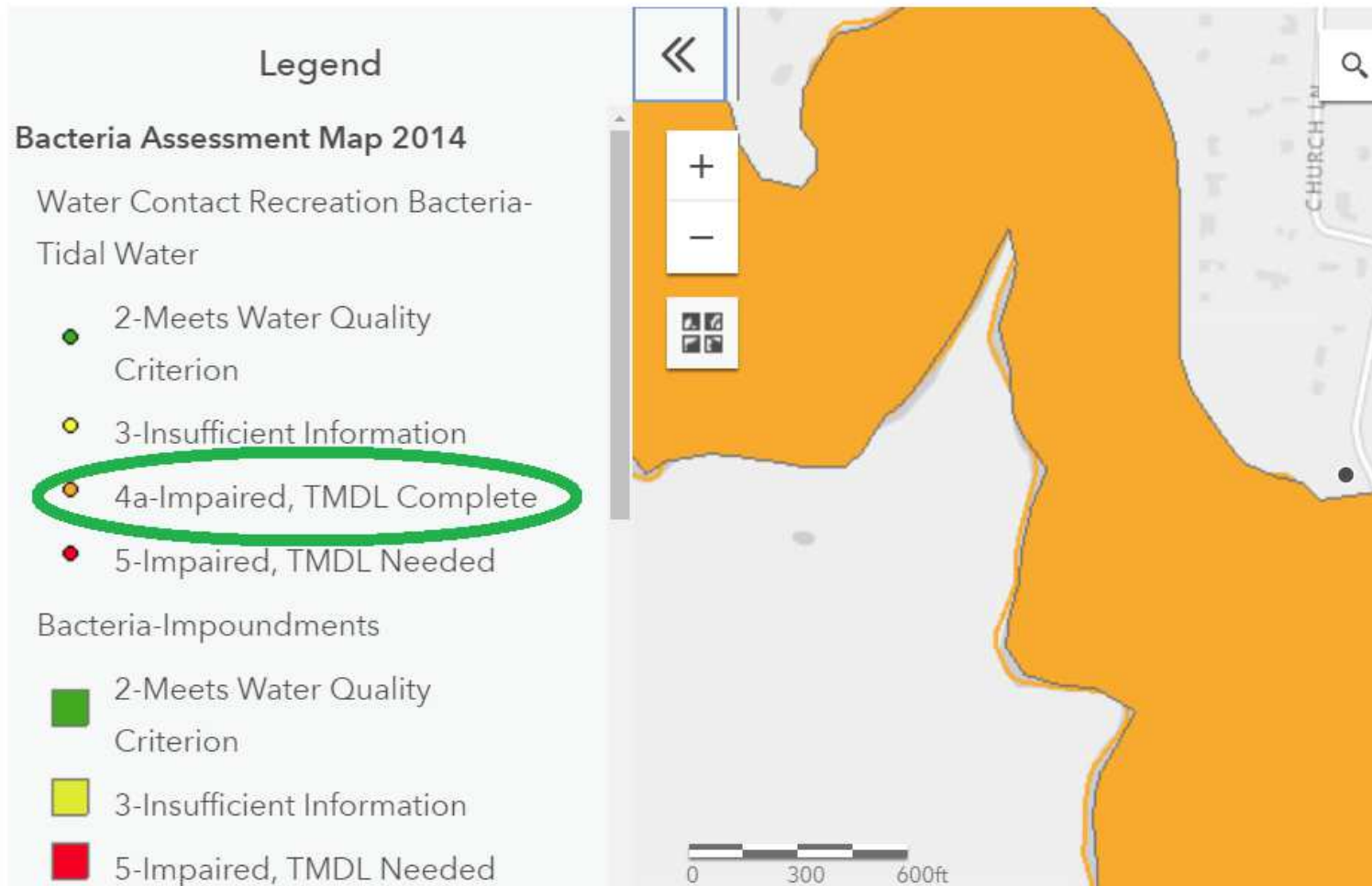
Bacteria Assessments

Please note that it takes about 30 seconds for the map to populate with information.





Please note that it takes about 30 seconds for the map to populate with information.





Section III

SECTION III: Stormwater Pollution Prevention Plan (SWPPP) and Monitoring		
The 15MM permit does require you to evaluate and implement specific control measures and effluent limits. It requires you to perform quarterly visual monitoring, may include numeric limits, benchmark monitoring and reporting for specific industrial sectors. It requires you to update your SWPPP to encompass the new controls required and provide this in conjunction with your NOI, and then keep an updated SWPPP onsite.		
(A) Has the SWPPP been prepared in advance of filing this NOI, as required? <input type="checkbox"/> Yes <input type="checkbox"/> No		
(B) Stormwater Pollution Prevention Plan (SWPPP) Primary Contact (if different than section I.B)		
Name		
Title		
Telephone Number	Email Address	
SWPPP Delivery Method (URL, email, etc.)		



Section IV – 15MM

Outfalls Information: (Attach a separate list if necessary)

List all of outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g. 001, 002).		Benchmark Table(s)		Effluent Limitations Table(s)	
Outfall ID	001	<input type="checkbox"/> A-1	<input type="checkbox"/> E-2	<input type="checkbox"/> A-3	<input type="checkbox"/> E-5
Latitude (decimal)		<input type="checkbox"/> A-2	<input type="checkbox"/> J-1	<input type="checkbox"/> AD.C-1	<input type="checkbox"/> J-2
Longitude (decimal)		<input type="checkbox"/> C-1	<input type="checkbox"/> L-1	<input type="checkbox"/> C-3	<input type="checkbox"/> J-3
* Identical Outfalls		<input type="checkbox"/> D-1	<input type="checkbox"/> L-2	<input type="checkbox"/> D-2	<input type="checkbox"/> J-4
* Flow (GPD)		<input type="checkbox"/> E-1		<input type="checkbox"/> E-3	<input type="checkbox"/> J-5
				<input type="checkbox"/> E-4	<input type="checkbox"/> J-6
Outfall ID		<input type="checkbox"/> A-1	<input type="checkbox"/> E-2	<input type="checkbox"/> A-3	<input type="checkbox"/> E-5
Latitude (decimal)		<input type="checkbox"/> A-2	<input type="checkbox"/> J-1	<input type="checkbox"/> AD.C-1	<input type="checkbox"/> J-2
Longitude (decimal)		<input type="checkbox"/> C-1	<input type="checkbox"/> L-1	<input type="checkbox"/> C-3	<input type="checkbox"/> J-3
* Identical Outfalls		<input type="checkbox"/> D-1	<input type="checkbox"/> L-2	<input type="checkbox"/> D-2	<input type="checkbox"/> J-4
* Flow (GPD)		<input type="checkbox"/> E-1		<input type="checkbox"/> E-3	<input type="checkbox"/> J-5
				<input type="checkbox"/> E-4	<input type="checkbox"/> J-6
Outfall ID		<input type="checkbox"/> A-1	<input type="checkbox"/> E-2	<input type="checkbox"/> A-3	<input type="checkbox"/> E-5
Latitude (decimal)		<input type="checkbox"/> A-2	<input type="checkbox"/> J-1	<input type="checkbox"/> AD.C-1	<input type="checkbox"/> J-2



Sector Benchmarks

NEW

1. Log Storage and Handling Facilities SIC 2411
2. Natural Wood waste Facilities SIC 2499
3. Composting Facilities SIC Code 2875
4. Asphalt Paving and Roofing Materials SIC 2951, 2952
5. Clay Product Manufacturers SIC 3251-3259, 3261-3269
6. Concrete and Gypsum Product Manufacturers SIC 3271-3275
7. Sand and Gravel Mining SIC 1442-1446
8. Stone and Minerals SIC 1411, 1422-1429, 1481, 1499
9. Concrete or Asphalt Recycling

**AFTER 4 QUARTERS, IF YOU HAVE MET
BENCHMARKS, CONTACT MDE TO REQUEST
DISCONTINUATION OF MONITORING**



Benchmark Monitoring

NEW

- Not effluent limitations; exceedance is not a permit violation.
- Monitoring helps determine overall effectiveness of control measures and when corrective actions are necessary.
- Online reporting quarterly is required for 4 full quarters.
- After collection of 4 quarterly samples, if the average of the 4 monitoring values:
 - does not exceed the benchmark, you have **fulfilled your monitoring requirements**
 - exceeds the benchmark, you must evaluate and make changes to control measures and **continue monitoring**



Benchmarks

NEW

	TSS	Aluminum	Iron	Lead	Zinc	COD	NO2/NO3	Phosphorus	pH
Asphalt & Asphalt Crushing	X								
Clay Products		X							
Concrete and Gypsum Products	X								
Sand and Gravel, Stone and Minerals Mining	X								
Timber Products- Natural Wood Waste	X					X			
Composting			X	X	X		X	X	
Crushed Concrete	X								X



Numeric Monitoring & Limits

1. Asphalt Emulsion Facilities (New)
2. Dewatering and Process Water at Industrial Sand Mining facilities (New)
3. Material Storage Pile Runoff at Cement Manufacturing Facilities (New)
4. Exterior Vehicle Washing (New)
5. Wastewater from Hydrodemolition Operations (New)
6. Concrete Mixer Trucks, Moulds, Buildings and Equipment Washing (from 10MM)
7. Dewatering and/or Process Water at crushed or broken limestone mining (from 10MM)
8. Dewatering and/or Process Water at crushed stone mining facilities (from 10MM)
9. Dewatering and Process Water at Construction sand and gravel mining facilities and clay mines (from 10MM)



NEW



Vehicle Washing

NEW

1. Prohibitions on use of soaps, or engine/under-carriage cleaning, or automotive fluids.
2. Dedicated Area with signage.
3. Inspection and maintenance of grit traps etc.
4. Documentation – Record of any oil sheen and action taken, and calculations of water use.

E.6.4.2 Vehicle Wash Water

All surface water discharges exclusively containing vehicle wash water shall be monitored by the permittee at each discharge point associated and limited as specified below in Table E-5.

Table E-5 Numeric Reporting and Limits for Vehicle Wash Water.

PARAMETER	Limits				Monitoring Frequency	Sample Type
	Daily Minimum	Monthly Average	Daily Maximum	UNITS		
Flow		REPORT	REPORT	gpd	1/month	measured

No visible sheen is permissible on any water discharging from the facility.



What Limit Applies?

SECTION IV: Discharge Information

Depending on your industrial activities, your facility may be subject to benchmarks or federal effluent limitation guidelines which include additional effluent limits and monitoring requirements for your facility. Review the summary table below in order to check the appropriate box(es) in the table in section IV where you must provide information for each of the outfalls on site. If there are any substantially identical outfalls, indicate it in the table by listing the outfall ID(s) in the appropriate box. For Outfalls subject to limits, list the Flow in Gallons Per Day (GPD).

Discharge Type	Table*	Benchmarks	Effluent Limitations
Sector A3 Storage and Handling Facilities (SIC 2411)	A-1	✓	
Sector A4 Natural Woodwaste Facilities (SIC 2499)	A-2	✓	
Wetting of logs at wet deck storage areas	A-3		✓
Sector C1 Composting Facilities (SIC 2875)	C-1	✓	
Phosphate fertilizer manufacturing (SIC 2874)	C-3		✓
Sector D1 Asphalt Paving and Roofing Materials (SIC 2951, 2952)	D-1	✓	
Asphalt Emulsion Facilities	D-2		✓
Sector E1 Clay Product Manufacturers (SIC 3251-3259, 3261-3269)	E-1	✓	
Sector E2 Concrete Gypsum Product Manufacturers (SIC 3271-3275)	E-2	✓	
Cement Manufacturing Storage Pile Run-off	E-3		✓
Concrete Washout from Concrete Mixer Trucks, Moulds, or Equipment	E-4		✓
Concrete Plant Vehicle Wash Water Only	E-5		✓
Sector J1 Sand and Gravel Mining (SIC 1442, 1446) and Stone and Minerals (SIC 1411, 1422-1429, 1481, 1499)	J-1	✓	
Dewatering and/or process water discharges at crushed or broken limestone mining facilities (SIC 1422)	J-2		✓
Dewatering discharges at crushed stone mining facilities (SIC 1423-1429)	J-3		✓
Dewatering discharges at construction sand and gravel mining facilities and clay mines (SIC 1442, 1455-1459)	J-4		✓
Dewatering discharges at industrial sand mining facilities (SIC 1446)	J-5		✓
Vehicle washing at Mining Facility	J-6		✓
Sector L4 Concrete or Asphalt Recycling	L-1, L-2	✓	
Wastewater from Hydro-blasting Operations	AD.C-1		✓

* Please see the referenced tables in Appendix D of the permit.



Identical Outfalls

Permit provides for exemptions to monitoring each outfall, when outfalls are considered substantially identical. Worth reviewing this in the permit to save in your compliance efforts.





Section IV - 16MA

SECTION IV: Discharge Information			
(A) Identify by outfall the type of wastewater (excluding non-industrial runoff) your facility discharges, or proposes to discharge, to waters of the State (onto the ground or to surface waters)?			
Provide Detail Information: (Attach a separate list if necessary)			
List all of outfalls from your facility. Each outfall must be identified by a unique 3-digit ID (e.g. 001, 002).		Boat Bottom Pressure Wash Water	Collected Bilge Water
Outfall 001		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Latitude In degrees decimal			
Longitude In degrees decimal			
Outfall 002		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Latitude In degrees decimal			



Discharge Information 16MA

(B) How do you treat the discharge(s)?
(C) Check the box declaring that you are not using soaps or detergents in boat (or dock) washing. <input type="checkbox"/>
(D) If you do not discharge wastewater from your facility, what alternate method of wastewater disposal you use (e.g. closed loop treatment system or connection to a sanitary sewer)?
(E) What is your average flow per outfall (in gallons [circle] daily monthly annually)? Outfall 001: _____ Outfall 002: _____ Outfall 003: _____
(F) Do you wash docks at your marina? <input type="checkbox"/> Yes <input type="checkbox"/> No
Do you use chlorinated potable water for washing in excess of 350 gallons per pier? <input type="checkbox"/> Yes <input type="checkbox"/> No
(G) Do you offer a pump-out services at your facility? <input type="checkbox"/> Yes <input type="checkbox"/> No



Power Washing of Docks at Marinas

NEW

Frequent question from Inspectors and MS4s (Baltimore City). The permit attempts to answer the question and authorize this important activity.

- 1) Minimize any pollution that may be rinsed into the water.
Discharges shall not contain visible oil sheen, floating solids or persistent foam, soaps, cleaning agents or additives. Discharges that create visible plume in water are prohibited.
- 1) Addresses chlorine where more than 350 gallons per pier is used.
- 3) No NetDMR reporting of chlorine levels for dock washing.





Chemical Additives – 15MM

SECTION V: Chemical Additives

Will you use chemical additives? Yes Will you use cationic chemical additives? Yes

The use of any cationic chemical additives, that will mix with stormwater or that might otherwise become part of the effluent discharged, is prohibited without prior approval.

To obtain approval, refer submit a signed *Request for Cationic Chemical Additive Form* and refer to the *Use of Treatment Chemicals Guidance Document* for further requirements.





Cationic Form

This form is on our website, and needs to be completed if you intend to use cationic treatment such as Chitosan.

MARYLAND DEPARTMENT OF THE ENVIRONMENT Request for Cationic Chemical Additive Form

SECTION IV: Treatment Option			
(A) Check Treatment Option Being Requested - <i>Passive, stochastic methods, such as blocks of flocculent material are not approved.</i>			
<input type="checkbox"/> Chitosan enhanced sand filtration with discharge to infiltration (ground water)			
<input type="checkbox"/> Chitosan enhanced sand filtration with discharge to temporary holding ponds (batch)			
<input type="checkbox"/> Chitosan enhanced sand filtration with discharge to surface waters (flow-through)			
<input type="checkbox"/> Other (if not one of the above, then submit separate documentation with further explanation, including the ability to remove turbidity and produce non-toxic effluent/discharge)			
(B) Check Chemical Additive Being Requested			
<input type="checkbox"/> FloccClear™ (2% chitosan acetate solution)			
<input type="checkbox"/> StormKlear™ LiquiFloc™ (1% chitosan acetate solution)			
<input type="checkbox"/> ChitoVan™ (1% chitosan acetate solution)			
<input type="checkbox"/> StormKlear™ LiquiFloc™ (3% Chitosan acetate solution)			
<input type="checkbox"/> Other (if not one of the above, then submit documentation with further explanation)			
(C) Estimated Treatment Period			
Begin Date		End Date	
Describe sampling and recordkeeping schedule. Attach additional sheets as needed:			



Polymer or Chemical Use

NEW

- Additives are treatment chemicals for water, such as flocculants:
- Cationic Polymers require approval.
 - All other additives require notification that the operator use Safety Data Sheet (SDS) to verify no toxicity.



Permit Fee – 15MM

SECTION VI: Permit Fee Selection		
All discharges to groundwater ONLY	No Fee	<input type="checkbox"/>
Average Daily Discharge Volume: Less than 1,000 Gallons Per Day	\$110	<input type="checkbox"/>
Average Daily Discharge Volume: 1,000—5,000 Gallons Per Day	\$275	<input type="checkbox"/>
Average Daily Discharge Volume: 5,001—50,000 Gallons Per Day	\$600	<input type="checkbox"/>
Average Daily Discharge Volume: 50,001—100,000 Gallons Per Day	\$1175	<input type="checkbox"/>
Average Daily Discharge Volume: 100,001—250,000 Gallons Per Day	\$1740	<input type="checkbox"/>
Average Daily Discharge Volume: 250,001—1,000,000 Gallons Per Day	\$2300	<input type="checkbox"/>
Average Daily Discharge Volume: Greater than 1,000,000 Gallons Per Day	\$2875	<input type="checkbox"/>



Permit Fee 16MA

SECTION V: Permit Fee		
Number of Slips	Check NOI fee submitted	
State or local government owned marinas	No Fee	<input type="checkbox"/>
Fewer than 10	\$100	<input type="checkbox"/>
10 or more but fewer than 50	\$200	<input type="checkbox"/>
50 or more but fewer than 100	\$300	<input type="checkbox"/>
100 or more but fewer than 200	\$400	<input type="checkbox"/>
200 or more	\$500	<input type="checkbox"/>



Certification

SECTION VII: Certification	
To be completed by a responsible corporate officer, proprietor, general partner, principal executive officer, or ranking elected official or their duly authorized representative, as detailed in Part II.C of the permit.	
<i>"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 the 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."</i>	
Signature/Certifier	Date
Signatory Name/Title: Typed or Printed	Telephone Number
NOI Preparer (Complete if NOI was prepared by someone other than the certifier)	
Prepared by:	
Telephone Number	Email Address
Submit completed form and FEE (payable to Maryland Department of the Environment) to:	
Maryland Department of the Environment, P.O. Box 2057, Baltimore, MD 21203-2057	



Permit Requirements

Select, design, install, & implement control measures (6 Pages)

- Minimize stormwater exposure
- Good housekeeping
- Maintenance of industrial equipment and stormwater controls
- Develop spill prevention and response procedures
- Stabilize disturbed areas with Erosion & Sediment Controls
- Management of runoff (reuse, divert, infiltrate, reduce)
- Cover or enclose salt storage piles or piles containing salt
- Employee training
- Waste, garbage and floatable debris must not be discharged to receiving waters
- Minimize dust generation and vehicle tracking of industrial materials



More Permit Requirements

- Non-Stormwater discharges must be eliminated, if not authorized by this permit (list in Part I.C.4).
- Appendix D Sector-Specific limits for all Sectors at the facility.



Monitoring Requirements

- Visual monitoring 4 times a year
- Benchmark monitoring for several industries
- Numeric Limits for dewatering and other associated facility wastewaters



Visual Monitoring



Quarterly Samples:

1. No lab required.
2. This form is in Appendix B of the permit.
3. Important to keep records with SWPPP.

General Discharge Permit No. _____
Appendix B: Page 2

Quarterly Visual Monitoring Form
Fill out a separate form for each outfall sampled.

Sample Location			
Quarter / Year:	Date / Time Collected:	Date / Time Examined:	
Qualifying Storm Event?	Yes	No	Runoff Source: Rainfall Snowmelt
Collector's Name & Title			
Examiner's Name & Title			
Parameter	Parameter Description	Parameter Characteristics	
1. Color	Does the stormwater appear to have any color? Yes No (Clear)	If Yes, describe: Yellow Brown Red Gray Other:	
2. Clarity	Is the stormwater not clear? Yes No	If not clear, which of the following best describes the clarity of the stormwater? Suspended Solids Milky/Cloudy Opaque Other:	
3. Oil Sheen	Can you see a rainbow effect or sheen on the water surface? Yes No	Which best describes the sheen? Rainbow sheen Floating oil globules Other:	
4. Odor	Does the sample have an odor? Yes No	If Yes, describe: Chemical Musty Rotten Eggs Sewage Sour Milk Oil/Petroleum Other:	
5. Floating Solids	Is there anything on the surface of the sample? Yes No	If Yes, describe: Suds Oil/Film Garbage Sewage Water Fowl Excrement Other:	
6. Suspended Solids	Is there anything suspended in the sample? Yes No	Describe:	
Leave sample undisturbed for 30 minutes.			
7. Settled Solids	Is there anything settled on the bottom of the sample? Yes No	Describe: (note type, size and material after sample is not disturbed for 30 minutes)	
8. Foam	Does foam or material form on the top of the sample surface if you shake it? Yes No	Describe:	
9. If there are any visible indicators of pollution identify (1) where the pollution may come from and (2) any corrective actions taken.			
Stormwater Collector's Signature and Date:			
Stormwater Examiner's Signature and Date:			
<i>Note – Sample should be collected and analyzed in a colorless glass or plastic bottle.</i>			



Monitoring Guidance

EPA's Guidance Document for monitoring and sampling is provided by the Department and is also available on the Web.

Videos with sampling added to our Web.

NEW



EPA 832-B-09-003



Industrial Stormwater Monitoring and Sampling Guide

March 2009

Final Draft





Comprehensive Evaluation

Do a Comprehensive Site Compliance Evaluation once a year,
and keep it onsite with SWPPP.

NEW

Check for and document:

- Industrial materials, residue or trash
- Leaks or spills within the past three years;
- Offsite tracking where vehicles enter or exit the site;
- Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas;
- Evidence of pollutants entering the drainage or pollutants discharging to surface waters at facility outfalls;
- The condition of and around any outfall, including flow dissipation measures to prevent scouring;
- Training performed, inspections completed, maintenance performed, quarterly visual examinations, and effective operation of BMPs and
- Visual and analytical monitoring results from the past year.

EPA Provides a Template that may be used, which is on our website.



Monitoring Exceptions

NEW

- Facility is Inactive and Unstaffed
- Substantially Identical Outfalls
- No Discharge from Facility



Reporting

NEW

- Electronic Reporting (NetDMR) Required
 - We require NetDMR for any numeric or benchmark reporting.
 - There is a VERY LIMITED “opt out” for hardship cases.



Corrective Actions

NEW

When something is wrong, you must address it and document what you did!

- Within **24 hours** of discovery of any condition listed, you must document discovery.
- Within **14 days** of discovery of any condition listed, you must document your corrective action.
- Any **modifications** to your control measures must be made before the next storm event if possible, or as soon as practicable following that storm event.
- In the event that a deficiency cannot be addressed fully within 30 days, you must **call the Department Compliance program** and make the Department aware of the situation.



16-MA Highlights

What was added or changed from the 10-MA to the 16-MA?

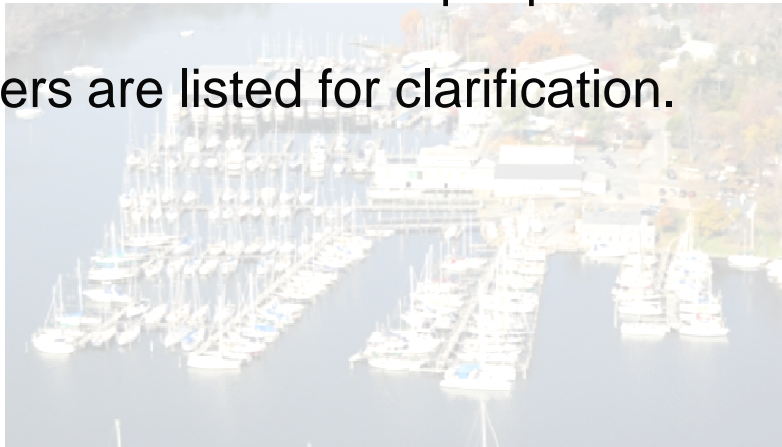


Permit Provides Clarifications

MDE and DNR are frequently asked questions about what is or isn't required under the permit. **The permit now clarifies these areas.**

- Wastewater from pressure washing of boat hulls where numeric limits apply vs. rinsing of boats with non-pressurized water where simple prohibitions apply.
- Bilge water (including engines wash water) which has been collected from vessel to containment and treated prior to discharge where numeric limits apply.
- Dock washing waters where limits apply vs. routine pavement wash water where simple prohibitions apply.
- Others are listed for clarification.

NEW





Non-Stormwater Prohibitions

NEW

Important in water clarifications added:

- No in-water removal of paints
- No in-water washing of boats if paints cause visible plume (aka soft ablative)



- No discharges that contain visible oil sheen, persistent foam or floating solids.



15-MM Highlights

What was added or changed from the 10-MM to the 15-MM?



New pH Method



pH (daily maximum)	6.0 - 9.0	s.u.	1/month	Grab
pH (monthly average)	6.5 - 8.5	s.u.	1/month	Grab

1. Providing end of pipe limit, requiring testing only at point of discharge.
2. Allows for a daily maximum, but if not meeting that you may need to test more often and treat to meet the Monthly Average.
3. Sample of 1/Month is a minimum.



New Temperature Method

NEW

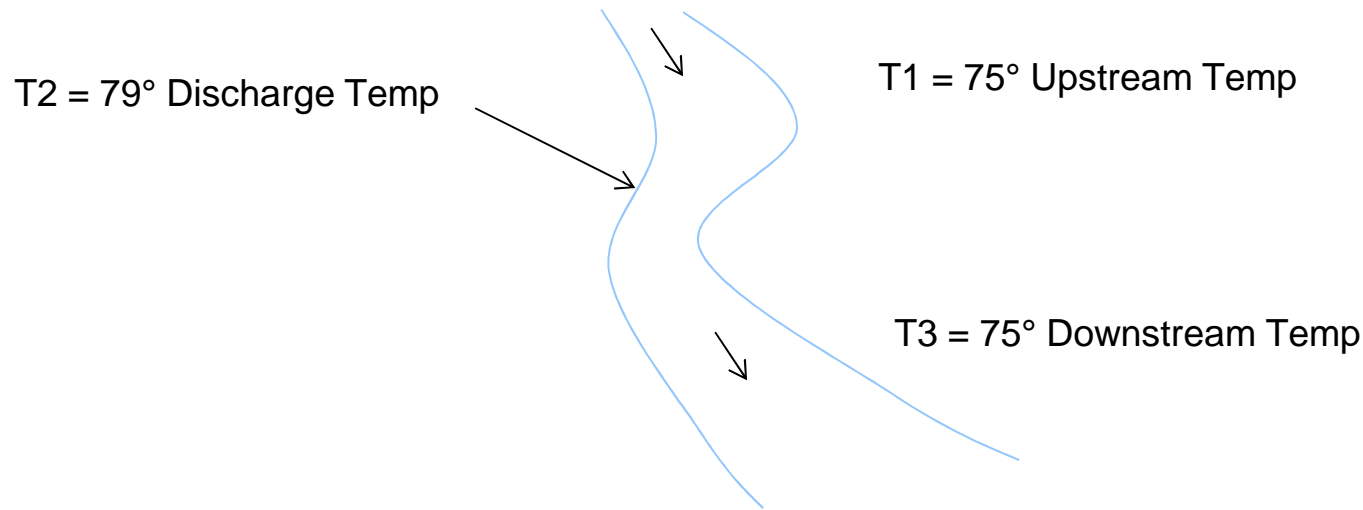
Temperature – Summer	REPORT	°F	1/month	i-s (b)
Temperature Difference	0 maximum	°F	1/month	Calculated (b, c)


(c) Temperature Difference is determined by following the steps below until you verify you are either demonstrating compliance or noncompliance.

- i) If the effluent temperature $\leq 68\text{F}$ (**Use III**) or $\leq 75\text{F}$ (**Use IV**), then report “Temperature Difference” = 0, demonstrating compliance. Otherwise proceed to the next step.
- ii) Calculate “Temperature Difference” = effluent - receiving water temperature upstream of the discharge. If the result is “ ≤ 0 ” then report the negative value which is compliant. If it is “ > 0 ” proceed to the next step.
- iii) Calculate “Temperature Difference” = edge of mixing zone temperature (50 feet downstream of discharge) - [68F (Use III) or 75F (Use IV)]. If the result is “ ≤ 0 ” then report the negative value which is compliant. If it is “ >0 ” proceed to the next step.
- iv) Calculate “Temperature Difference” = edge of mixing zone temperature (50 feet downstream of discharge) - receiving water temperature upstream of the discharge. If the result is “ ≤ 0 ” then report the negative value which is compliant. If it is “ >0 ” then report the positive value which is a permit violation.



Temperature Use IV Example



- i) If the effluent temperature $\leq 68\text{F}$ (Use III) or $\leq 75\text{F}$ (Use IV), then report “Temperature Difference” = 0, demonstrating compliance. Otherwise **proceed to the next step**.
- ii) Calculate “Temperature Difference” = effluent - receiving water temperature upstream of the discharge. If the result is “ ≤ 0 ” then report the negative value which is compliant. If it is “ > 0 ” **proceed to the next step**.
- iii) Calculate “Temperature Difference” = edge of mixing zone temperature (50 feet downstream of discharge) - [68F (Use III) or 75F (Use IV)]. If the **result is “ ≤ 0 ” then report the negative value which is compliant**. If it is “ >0 ” proceed to the next step. 
- iv) Calculate “Temperature Difference” = edge of mixing zone temperature (50 feet downstream of discharge) - receiving water temperature upstream of the discharge. If the result is “ ≤ 0 ” then report the negative value which is compliant. If it is “ >0 ” then report the positive value which is a permit violation.



SWPPP Documentation

Specific requirements are in the permit (5 pages):

- Stormwater Pollution Prevention Team
- Site description & map
- Summary of Potential Pollutant Sources
- Control Measures
- Schedules and Procedures
- Signature.



SWPPP Template

Stormwater Pollution Prevention Plan (SWPPP)
INSERT FACILITY NAME and DATE

Stormwater Pollution Prevention Plan

for:

Insert Facility Name
Insert Facility Address
Insert City, State, Zip Code
Insert Facility Telephone Number (if applicable)

SWPPP Contact(s):

Insert Facility Operator
Insert Name
Insert Address
Insert City, State, Zip Code
Insert Telephone Number
Insert Fax/Email

SWPPP Preparation Date:

■ / ■ / ■■

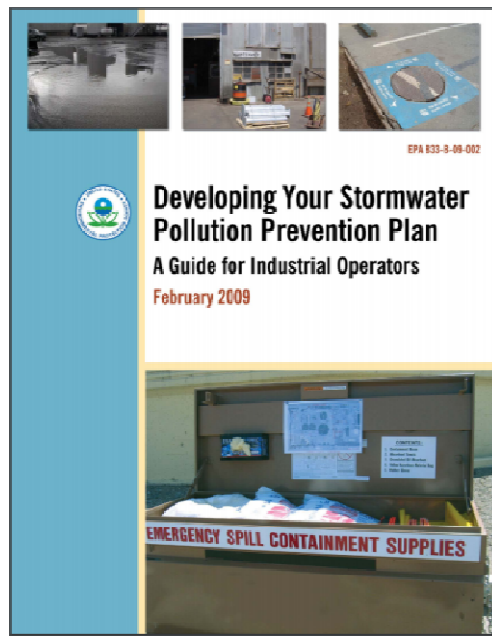
MDE Industrial SWPPP Template, April 10, 2017

i

Option for create a new SWPPP, or if you are needing to overhaul your existing one.



SWPPP Guidance



The 42 Page Guide included:

Required Control Measures

Industry Specific Benchmarks

Quarterly Visual Monitoring

Annual Comprehensive Site Visits



Guidance for Operator

NEW

INDUSTRIAL STORMWATER

FACT SHEET SERIES

Sector J: Mineral Mining and Processing Facilities



U.S. EPA Office of Water
EPA-833-F-06-025
December 2006

What is the NPDES stormwater permitting program for industrial activity?

Activities, such as material handling and storage, equipment maintenance and cleaning, industrial processing or other operations that occur at industrial facilities are often exposed to stormwater. The runoff from these areas may discharge pollutants directly into nearby waterbodies or indirectly via storm sewer systems, thereby degrading water quality.

In 1990, the U.S. Environmental Protection Agency (EPA) developed permitting regulations under the National Pollutant Discharge Elimination System (NPDES) to control stormwater discharges associated with eleven categories of industrial activity. As a result, NPDES permitting authorities, which may be either EPA or a state environmental agency, issue stormwater permits to control runoff from these industrial facilities.

What types of industrial facilities are required to obtain permit coverage?

This fact sheet specifically discusses stormwater discharges that have been exposed to significant materials from active and inactive mineral mining and processing facilities as defined by Standard Industrial Classification (SIC) Major Group 14. Facilities and products in this group fall under the following categories, all of which require coverage under an industrial stormwater permit:

- ◆ Potash, Soda, and Borate Minerals (SIC Code 1474)
- ◆ Phosphate Rock (SIC Code 1475)
- ◆ Chemical and Fertilizer Mineral Mining (SIC Code 1479)
- ◆ Dimension Stone (SIC Code 1411)
- ◆ Crushed and Broken Limestone (SIC Code 1422)
- ◆ Crushed and Broken Granite (SIC Code 1423)
- ◆ Crushed and Broken Stone (SIC Code 1429)
- ◆ Construction Sand and Gravel (SIC Code 1442)
- ◆ Industrial Sand and Gravel (SIC Code 1446)
- ◆ Kaolin and Ball Clay (SIC Code 1455)
- ◆ Clay, Ceramic, and Refractory Minerals (SIC Code 1459)
- ◆ Miscellaneous Nonmetallic Minerals, Except Fuels (SIC Code 1499).

Contact your permitting authority for any additional requirements or limitations, as industrial stormwater permit coverage may or may not cover or be required for certain discharges from mineral mining and processing facilities.

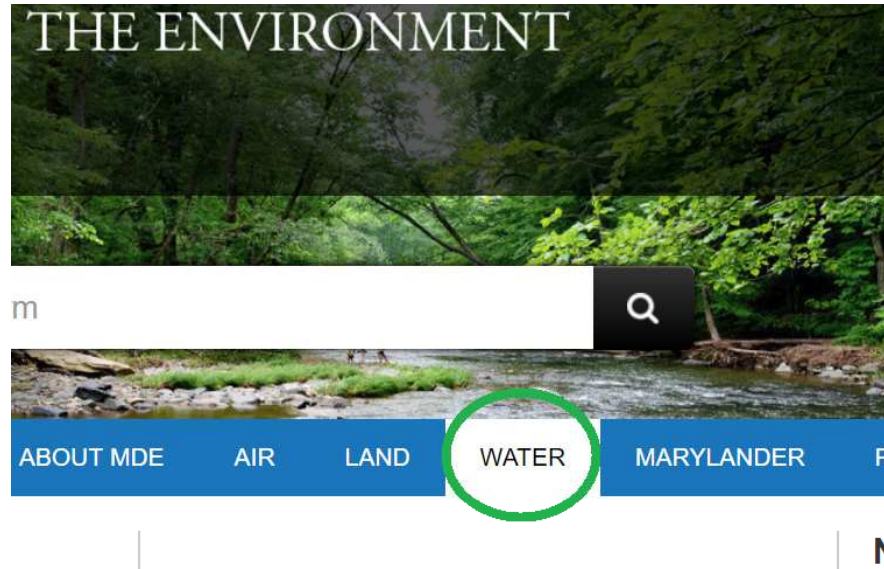
➤ *Consolidated Overview.*

➤ *Requirements are very specific to certain industries.*

➤ *Guidance is available on our website to help operators.*

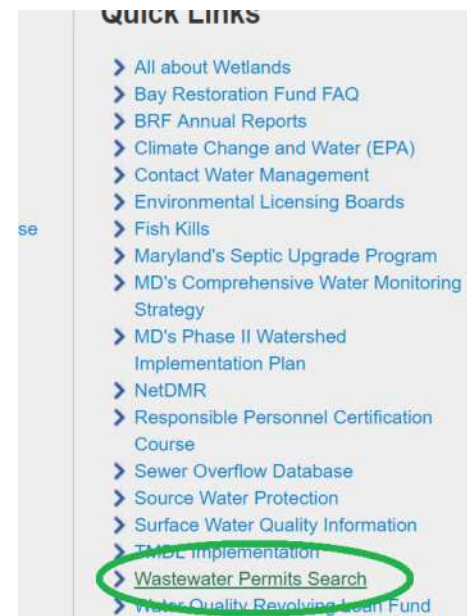


Once Registration sent in what Next?



Go to MDE's website, and select "WATER".

Then scroll to bottom right side and select "Wastewater Permits Search"





Search Portal

Enter your address and hit search, and watch your status change from Received (once we receive and log it in) to Issued (if all the documents are complete). Once issued we send you a letter to confirm that for your records.

Wastewater Permits Interactive Search Portal

Enter or select search values in one or more text box or dropdown search fields below

Please note: Wild card characters are not supported in your search values but partial values are
It may take around 30 seconds to return results

Facility Name: Address: City:
Zip Code: State Num.: NPDES Number:
County: Watershed:
Type: Status:

[Click here for field information \(PDF\)](#)

2 facilities found

	Facility Name	Address	City	Zip Code	County	State Num.	NPDES Num.	Status
<input type="button" value="More Info."/>	Aggregate Industries - Severn Asphalt	1320 Cunningham Rd	Severn	21144	Anne Arundel	10MM9753	MDG499753	Issued
<input type="button" value="More Info."/>	Aggregate Industries - Severn Asphalt	1320 Cunningham Rd	Severn	21144	Anne Arundel	15MP9753	MDG499753	Received



Registration Numbering

NEW

- Where primary activity is a mining site, the registration numbers will begin with “15MM” and compliance will usually be through Land Management.
- Plants (Non-mining sites) will have registration numbers beginning with “15MP” and compliance will usually be through Water Management.
- Marinas will start with “16MA”.



Questions?

Paul Hlavinka:

Paul.Hlavinka@Maryland.gov, 410-537-3631

Robert Pudmericky:

Rob.Pudmericky@Maryland.gov, 410-537-3721

Jennifer Nitsch:

Jennifer.Nitsch@Maryland.gov, 410-537-4469

Best number to refer applications to:

410-537-3323