This form is to apply for a variance from the prohibition on new underground oil storage (UST) facilities and aboveground oil storage (AST) facilities within mapped Sand and Gravel aquifers. Maine law prohibits installation of USTs and ASTs within sand and gravel aquifers mapped by the Maine Geological Survey unless a variance is obtained from the Department of Environmental Protection (DEP). See 38 MRSA § 1391 and Chapter 692 of DEP rules. In considering whether to grant a variance, the Commissioner may consider the importance of the groundwater resource, any engineering or monitoring measures proposed by the applicant, the geology of the site and other relevant factors.

Definitions

A. Aboveground heating oil supply tank. "Aboveground heating oil supply tank" means an aboveground oil storage tank that is connected directly to an oil-burning heating appliance and is used solely to store heating oil.

B. Aboveground oil storage facility. "Aboveground oil storage facility" means any aboveground oil storage tank or tanks, together with associated piping, transfer and dispensing facilities located over land or water of the State at a single location for more than 4 months per year and used or intended to be used for the storage or supply of oil. Oil terminal facilities, as defined in 38 M.R.S.A. §542(7) are not included in this definition.

C. Aboveground oil storage tank. "Aboveground oil storage tank" means any aboveground container, less than 10% of the capacity of which is beneath the surface of the ground, that is used or intended to be used for the storage or supply of oil. Included in this definition are any tanks situated upon or above the surface of a floor and in such a manner that they may be readily inspected. Drums or other storage containers that have a capacity of 60 gallons or less and oil-containing electrical equipment are not included in this definition.

D. Bulk plant. “Bulk plant” means an intermediate fuel oil distribution facility with truck loading racks.

E. Chapter 34. “Chapter 34” means the Department of Public Safety Rules and Regulations for Flammable and Combustible Liquids, 16-219 CMR chapter 34 (last amended Sept. 3, 2007).

F. Chapter 691. “Chapter 691” means the Department of Environmental Protection Rules for Underground Oil Storage Facilities, 06-096 CMR chapter 691(last amended April 3, 2007).

G. Commissioner. "Commissioner" means the Commissioner of Environmental Protection.
H. Community drinking water well. "Community drinking water well" means a public drinking water well that supplies a community water system as defined under 22 M.R.S.A. §2660-B(2).

I. CMR. “CMR” means the Code of Maine Regulations.

J. Department. "Department" means the Department of Environmental Protection composed of the Board of Environmental Protection and the commissioner.

K. Double-walled tank. "Double-walled tank" means a tank with inner and outer walls separated by an interstitial space that allows detection and containment of leaks.

L. Fire marshal. “Fire marshal” means the Office of the State Fire Marshal in the Department of Public Safety.

M. Marketing and distribution facility. "Marketing and distribution facility" means any underground and/or aboveground oil storage facility where oil is stored for eventual resale.

N. M.R.S.A. “M.R.S.A.” means the Maine Revised Statutes Annotated.

O. Oil. "Oil" means oil, oil additives, petroleum products and their by-products of any kind and in any form including, but not limited to, petroleum, fuel oil, sludge, oil refuse, oil mixed with other nonhazardous waste, crude oils and all other liquid hydrocarbons regardless of specific gravity. "Oil" does not include propane, liquefied natural gas or other liquefied petroleum that is a gas at ambient temperatures.

P. Oil storage facility. “Oil storage facility” means an aboveground oil storage facility or an underground oil storage facility.

Q. Person. “Person” means any natural person, firm, association, partnership, corporation, trust, the State and any agency of the State, government entity, quasi-governmental entity, the United States and any agency of the United States and any other legal entity.

R. Private drinking water well. "Private drinking water well" means a well that is used to supply water for human consumption and that is not a public drinking water well.

S. Public drinking water well. "Public drinking water well" means a drinking water supply well for a public water system as defined in 22 M.R.S.A. § 2601(8).

T. Public drinking water supply. "Public drinking water supply" means any well or other source of water that furnishes water to the public for human consumption for at least 15 connections, regularly serves an average of at least 25 individuals daily at least 60 days out of the year, or that supplies bottled water for sale.

U. Underground oil storage facility. "Underground oil storage facility" means any underground oil storage tank or tanks, as defined in subsection W, below, together with associated piping and dispensing facilities located under any land at a single location and used, or intended to be used, for the storage or supply of oil, as defined in this rule. Underground oil storage facility also includes piping located under any land at a single location associated with above ground storage tanks and containing 10 percent or more of the facility's volume capacity.

V. Underground oil storage tank. "Underground oil storage tank" means any container, 10% or more of its volume being beneath the surface of the ground and which is used, or intended to be used, for the storage, use, treatment, collection, capture or supply of oil as defined in this
subchapter, but does not include any tanks situated in an underground area if these tanks or containers are situated upon or above the surface of a floor and in such a manner that they may be readily inspected. For the purpose of this rule, "underground oil storage tank" does not include underground propane storage tanks, underground oil-water separators, storm water and emergency catch basins, and hydraulic lift tanks. An overflow tank associated with an oil-water separator is considered an underground oil storage tank.

W. Wellhead protection zone. "Wellhead protection zone" means:

A. In the case of a private drinking water well, the area within 300 feet of the well; and

B. In the case of a public drinking water well, the greater of:

   (1) The area within 1,000 feet of the well; and

   (2) The source water protection area of the well if mapped by the Department of Health and Human Services as described under 30-A M.R.S.A. §2001(20-A).

General Instructions:

1. Be sure to submit the application well in advance of the date on which you plan to construct or operate the facility.

2. Prior to completing the application, you should meet with the DEP staff to discuss the proposed facility. Call the DEP Underground Tank Registration staff at (207) 287-2651 to arrange a pre-application meeting.

3. Answer all questions. INCOMPLETE APPLICATIONS WILL BE RETURNED

4. If a question does not apply, indicate such and explain why.

5. All design plans, drawings, site plans and maps must be on sheets no smaller than 8 ½” x 11” and no larger than 30”x 40”. All drawings, plans and maps should be folded to size 8 ½” x 11”.

6. All engineering designs, reports, plans and other technical engineering documents must be signed and certified by a State of Maine Registered Professional Engineer.

7. All geologic and hydrogeologic reports must be signed and certified by a State of Maine certified geologist.

8. Within 30 days before filing the application and at least seven days before holding the required Public Informational Meeting (see paragraph 9 below), you must provide public notice. The attached form-NOTICE OF APPLICATION and PUBLIC INFORMATION MEETING has been supplied for your use.

The notice must be sent by certified mail to: the chief administrative officer (town manager, first select person etc) and the planning board chairperson of the municipality in which the facility is proposed; local public water utility or other community public water provider; abutting property owners; and other interested parties who have notified the Department of
their interest in receiving variance notices. A list of the names and mailing addresses of such people may be obtained from the Department.

A copy of the notice must also be published once in a newspaper generally circulated in the area where the facility is proposed.

9. The DEP requires that you schedule and hold a Public Informational Meeting at a convenient time and location near the proposed facility site.

The purpose of the meeting is to provide concerned parties an opportunity to find out what is proposed and what provisions are being made to minimize potential threats to public health and the environment. The usual format of this meeting is for the applicant to explain the application and respond to questions regarding it. This meeting also provides you the opportunity to modify the proposal if appropriate, based upon public input.

Please see the Time Line at the end of this application to determine dates for mailing and publishing the notice, holding the public meeting and submitting the application.

10. Applicants should review Chapter 691 & 692 of DEP rules. These rules set forth the restrictions and standards regarding siting new underground & aboveground oil and hazardous waste storage facilities over mapped sand and gravel aquifers. Keep a complete copy of the application for your files.

12. If the Department determines that the new or additional information is significant or substantially modifies the application at any time after acceptance of the application as complete, you must provide notice of the additional information to interested persons who have commented on the application. The Department may also require additional public notice.

13. Send the application, including supporting material to:

    Attn: Licensing Unit Leader
    UST Registration Staff
    Maine Department of Environmental Protection
    Bureau of Remediation and Waste Management
    Division of Oil and Hazardous Waste Facilities Regulation
    17 State House Station
    Augusta, ME 04333-0017
VARIANCE APPLICATION
FOR THE SITING OF NEW UNDERGROUND & ABOVEGROUND OIL STORAGE FACILITIES OVER SIGNIFICANT SAND AND GRAVEL AQUIFERS

Please Type or Print in Ink:

Name of Applicant: ____________________________ Owner ( ) Operator ( ) Check one or both
Mailing Address: ____________________________ Telephone: __________________
City: ________________________ State: ________ Zip Code: ________
Contact person (name, address, and telephone): __________________________________________
Federal Employer Identification number: ___________; or Social Security number: ______

LOCATION OF PROPOSED UNDERGROUND OIL STORAGE FACILITY

Name of Facility: _______________________________________________________________
Street or Route Number: _________________________________________________________
Municipality or Township: _______________________________________________________
County: ______________________________________________________________________
Facility Owner: (If different than applicant): _________________________________________
Owner's Mailing Address & Telephone: _____________________________________________
Date notice was published _________________ Name of newspaper _____________________
Date the Public Informational Meeting was held: ______________________________________
Approximate number of meeting attendees: _________________________________________
Issues identified at Public Informational Meeting: ______________________________________
Changes made to proposed facility to address issues identified at Public Informational Meeting:
____________________________________________________________________________

____________________________________________________
**General Requirements:**

1. Provide a copy of the deed to the project site or other evidence that you have sufficient title, right or interest in the property on which the proposed facility is to be sited.

2. Indicate below the basis for your variance request.

   A. A Low Yield or Polluted Aquifer.

      (1) A site specific hydrogeological investigation demonstrates that the proposed facility site does not overlie an aquifer even though it is mapped as such by the Maine Geological Survey; Yes____ No____ If yes, attach documents to support this conclusion.

      (2) A public water system services all water users within 1000 feet upgradient and 2000 feet down gradient of the proposed facility site, and the site is in an urban area or an area made up of dense commercial land uses, industrial land uses, or dense residential development not served by public sewer; Yes____ No____ If yes, attach documents to support this conclusion.

      (3) The installation of drinking water supply wells within 1000 feet upgradient or within 2000 feet down gradient is prohibited by property deed restrictions, municipal land use ordinance, or a zoning rule of the Maine Land Use Regulation Commission (LURC); Yes____ No____ If yes, attach documentation to support this conclusion.

      (4) Hydrogeological studies or ground water quality testing data show that the aquifer underlying the proposed facility site is polluted with one or more man-made contaminants in concentrations exceeding federal maximum contaminant levels (MCLs), or the State of Maine maximum exposure guideline (MEG) established by the Maine Bureau of Health, and the aquifer’s ground water has not been and is not now the subject of a commissioner-supervised remediation
effort with the goal of the eventual restoration of or the protection of ground 
water in the aquifer to a quality suitable for human consumption; Yes_____ 
No_____ If yes, attach documentation to support this conclusion. 

(5) Other documentation that demonstrates that the aquifer is unsuitable or 
unavailable as a future public or private drinking water resource: Yes_____ 
No_____ If yes, attach documentation to support this conclusion. 

B. Moderate Yield Aquifer. 

(1) The proposed facility site is on an aquifer, or a portion thereof, mapped by the 
Maine Geological Survey as having a moderate potential for future use as a 
water supply resource, with yields generally less than 50 gallons per minute as 
confirmed by a commissioner-approved hydrogeological test conducted in 
accordance with Appendix T (attached); Yes_____ No_____ If yes, attach 
documentation to support this conclusion. 

(2) Is the facility designed and installed to include a combination of complementary 
leak and spill prevention equipment, discharge monitoring equipment, stand-by 
remediation system equipment, or other engineering and monitoring measures 
that collectively are more stringent than State or Federal requirements and that 
are determined by the Commissioner to further reduce the risk of oil discharges 
and the likelihood of future ground water contamination? Yes_____ No_____ If 
yes, attach documentation to support this conclusion. 

NOTE: The following is an example of a combination of additional facility design and 
monitoring measures for applicable motor fuel facilities that would meet with the 
Commissioner’s approval by minimizing the risk of discharges in the product
dispensing system and of overfills, as well as improving the detection of routine small discharges to the environment:

(i) installation of suction piping systems and liquid tight dispenser sumps with continuous leak monitoring;

(ii) annual sump tightness testing;

(iii) installation of flush mounted 25-gallon overfill spill containment buckets; and

(iv) the installation and sampling of a ground water monitoring well network surrounding the facility.

Where ground water monitoring wells are installed, they must be sampled quarterly and the samples must be analyzed in accordance with Chapter 691, Appendix S. (Attached)

For facilities storing gasoline, samples must be analyzed for gasoline, benzene, and methyl tertiary butyl ether (MTBE). For facilities storing diesel fuel, heating oil or waste oil, fuel oil analyses must be performed. The installation and sampling of any ground water monitoring wells must be conducted under the supervision of a Maine-certified geologist. Positive results must be reported to the Commissioner as evidence of a possible leak in accordance with section 5(D) or section 7(D), as applicable.

Monitoring wells must be made accessible to the Commissioner or the Commissioner’s agents for inspection and collecting water samples in accordance with Chapter 2 of the Department Rules.

NOTE: Maine law prohibits the DEP from granting a variance if any part of the proposed facility site overlies a mapped aquifer that has high potential as a future public drinking water resource.

C. High potential aquifers include:
(a) Any area designated on a Maine Geological Survey “Significant Sand and Gravel Aquifer Map” as a surficial deposit generally with yields greater than 50 gallons per minute;

(b) An aquifer or ground water resource protection zone as designated in a municipal ordinance or a LURC zoning rule;

(c) The source water or recharge area of a community public drinking water system supply well that is in the process of being developed, or within 1000 feet of such a well, whichever is greater, provided the aquifer has been found to yield more than 50 gallons per minute, based on hydrogeological pump test data and analysis by a Maine-certified geologist; or

(d) A portion of a mapped aquifer that, based on a borehole test conducted in the center of a proposed facility site and in accordance with Appendix T, attached, is expected to yield more than 50 gallons per minute.

3. Attach a list of names and mailing addresses of all abutters to the property on which the facility is proposed.

4. Underground Tanks and aboveground tanks with underground piping must complete a registration form for the proposed facility as required by Chapter 691.

5. Aboveground facilities need to register with the State Fire Marshal and under federal code 40 CFR 112 spill contingency plans.

6. Enclose a scale plan view drawing of the proposed facility tied to a property marker or other permanent structure. The drawing must show the proposed location and footprint of all facilities including all tanks, piping and dispensers and other facility components intended to contain product (either as a liquid or vapor) relative to other site features, including existing buildings and adjacent roads (See attachments A and B).

7. Enclose a copy of the MGS aquifer map on which you have plotted the UTM (Universal Transverse Mercator) map coordinates of the facility footprint and the groundwater monitoring wells. Plot the coordinates using North American Datum (NAD 83) standards to sub-meter accuracy & precision.

8. Include a description (narrative, site plans, drawings, maps, etc.) of engineering and monitoring plans that exceed regulatory requirements. The narrative must explain in detail how these plans collectively reduce the risk of future groundwater contamination at the site.
By signing this application, the applicant certifies that he or she has given public notice, and held a Public Informational Meeting in accordance with the application instructions and Chapter 692 of DEP rules.

The applicant further certifies under penalty of law that he or she has examined and is familiar with the information submitted in this document and all attachments thereto and that, based on his or her inquiry of those individuals immediately responsible for obtaining the information, believes the information to be true, accurate and complete. The applicant is aware that there are significant penalties for submitting false information, including the possibility of fine and/or imprisonment.

Date: ______________

________________________________________
(Signature of Owner-Applicant)

________________________________________
(Printed Name and Title)

Date: ______________

________________________________________
(Signature of Operator-Applicant)
(if different from above)

________________________________________
(Printed Name and Title)

NOTE: Where owner and operator is not the same person, either may obtain the variance but both must sign and certify the application.
NOTICE OF APPLICATION
and
PUBLIC INFORMATIONAL MEETING

Please take notice that __________________________________________________________

(name, address, and phone number of applicant)

has filed a variance application with the Maine Department of Environmental Protection (DEP) pursuant to the provisions of Title 38 M.R.S.A. § 1391 for the siting of a new underground & aboveground oil storage facility near a drinking water supply on ____________.

(estimated submittal date)

The application is for __________________________________________________________

(summary of project)

at __________________________________________________________ in ____________________.

(project street address) (municipality)

The applicant will hold a Public Informational Meeting ________________, located on ____________________.

(facility)

____________________________ in ______________________________ between the

(Street address) (Town or City and State)

hours of __________ and __________ on ______________. The purpose of this meeting is to

(start time) (end time) (Date)

provide information about this project to any interested parties.

Interested person also may request that the Board of Environmental Protection hold a public hearing on the variance application. The request must be in writing and must be received by the Department, no later than twenty (20) days after the application is accepted by the Department as complete for processing. Written comment from interested parties will be accepted throughout the processing of the application.

The application and supporting documentation are available for review at the Augusta office, located in the Ray Building on the AMHI Complex off Hospital Street during normal working hours. A copy of the application and supporting documentation may also be seen at the municipal office in ____________, Maine.

(town)

Send written comments to the Licensing Unit Leader, Division of Oil and Hazardous Waste Facilities Regulation at the Bureau of Remediation and Waste Management, 17 State House Station, Augusta, Maine 04333-0017.
1. The combined Notice of Intent to File must be advertised once by the applicant in a newspaper of general circulation in the area of the project location, and is to be mailed by certified mail to:

(a) The chief administrative officer and planning board chairperson of the municipality in which the facility is proposed to be located, or to the county commissioners and the LURC director if the facility is proposed in an unorganized township or plantation;

(b) The local public water utility or other community public water provider, if any;

(c) Abutters of the property on which the facility is proposed;

(d) Other interested persons who have requested in writing of the commissioner to receive variance notices, a list of such persons and their mailing addresses to be maintained by the commissioner; and,

2. A copy of the published notice is to be submitted with the application.

3. Please refer to the Time Line.

Time Line of Combined Notice

1. Mail Notices

2. Publish Notices

3. Hold Public Information Meeting

4. File Application

Steps:

1. Mail Notices - The clock starts at day 0 when the notices are sent by certified mail to the abutters and to the municipal office.

2. Public Notices - Publication data must be within three (3) days of mailing notices. Publication must be made in newspaper of general circulation in the area of the project.
3. **Hold Public Informational Meeting** – A meeting must be held at least ten (10) days after mailing notices and seven (7) days after publishing notices. The meeting must be held before the application is filed.

4. **File Application** - Application must be filed with the Department no more than thirty (30) days after the notices are mailed. Please allow yourself ample time between the meeting date and the filing date to be able to report results of the meeting on the application. You may also find that as a result of the public meeting, you may want or need to modify your application to address concerns of the public.

**Note:** Days refer to calendar days. If day 30 falls on a weekend or holiday, the deadline moves to the next business day.
APPENDIX T


If the site of the proposed facility falls within a zone mapped as generally yielding 10 to 50 gallons per minute (g.p.m.), but possibly more than 50 gallons per minute in some locations, the applicant must implement a limited hydrogeological evaluation to determine whether the site is located on a previously unrecognized high yield zone (well yield greater than 50 g.p.m.) of the aquifer.

The evaluation may be as extensive as the applicant chooses, but at a minimum it must demonstrate to the commissioner’s satisfaction whether or not a properly constructed well in the sand and gravel aquifer beneath the site would yield greater than 50 gallons per minute. The design of the evaluation, the field work and the written report must be supervised and certified by a Maine-certified geologist with demonstrated expertise in hydrogeology.

The Sand and Gravel Aquifer Mapping Program at the Maine Geological Survey has used a single-borehole evaluation to estimate the projected long-term yield of aquifers in areas where no other information is available. The techniques are described on pages 15-18 of Maine Geological Survey Open File No. 98-2, Hydrogeology and Water Quality of Significant Sand and Gravel Aquifers in Parts of Piscataquis and Somerset Counties, Maine, 1998, Nichols, W. J., Neil, C. D., Locke, D. B. and Foley, M. E. (authors). The method requires a borehole advanced to the bedrock surface with continuous soil sampling. Geological information along with the grain size analysis of the soil samples will be used to estimate the hydraulic conductivity of the strata, and the aquifer thickness will be used to calculate a transmissivity value and to estimate the long-term yield of a well at that location. An evaluation using this methodology is the minimum that the commissioner would accept. The commissioner would also accept the results of a properly conducted and interpreted pumping test.
ENGINEERING AND MONITORING MEASURES

The following is a menu of Engineering and Monitoring Measures beyond current minimum regulatory requirements. The Department considers these to provide increased level of groundwater protection in proximity to existing and future supplies.

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<tr>
<td>piping</td>
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</tbody>
</table>

Site Monitoring Measures

Install facility monitoring well array and implement Periodic (quarterly) groundwater monitoring.

Pre-install soil vapor extraction system with periodic (quarterly) tracer/soil-gas testing (in cases where monitoring wells are impractical).
Example of Retail Facility Site Drawing

Bob's Eats & Gas
Convenience Store
Noplace, Maine

Report Area #1
(K-1 Tank Area)

Location UTM Coordinates

1 N 4981432.3
E 499449.7

2 N 4981430.3
E 499452.2

3 N 4981423.9
E 499447.8

4 N 4981425.6
E 499445.6

Report Area #2
(Dispenser Island, Product Lines, and Underground Storage Tanks)

Location UTM Coordinates

5 N 4981408.9
E 499449.6

6 N 4981391.5
E 499478.5

7 N 4981405.9
E 499488.6

8 N 4981400.7
E 499496.5

9 N 4981380.7
E 499482.6

10 N 4981404.4
E 499446.5

US Route 350