



# **Opireetora Taankarii Qajeelfama wabii**

**Ebla 12, 2022**

**Diviizhinii Taankariwwan Kuusaa Lafa Jalaa**

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# Boqonnaa 1 Seensa

*Qajeelchi Wabii Opireetara Taankarii* Kuni Opireetara Taankarii Kuusaa Lafa Jalaa (UST) f kan qophaa'e fi akkamiin haala sirrin akka dalagamuu fi sirna UST Tennesseeef haalduree wal fakkaataan yeroo hundaa akka guutamuf ulaagaa xiqqaa dhiyeessa. Akkaataa Seera Taankarii Kuusaa Lafa Jalaa Peetirooliyeemii Tennessee (UST Act) T.C.A. § 68-215-101 et. seq tti abban qabeenyaa fi Opireetari qaama itti gaafatamummaa qabu dha. Qajeelfamni kun odeeffannoo kanneen armaan gadii irratti kenna:

- Unkaa fi Beeksisa
- Kaffaltiiwwanii fi Galmees
- Mallattoowwan Diimaa
- Ittii gaafatamummaa Faayinaansii(Maallaqaa)
- Leenjii Hojjetaa
- Yaa'aa Adda baasuu
- Ittisa Daanda'uu
- Ittisa dhangala'uu fi Guutiinsa Humnaan olii
- Raabsituu Boba'aa mootoraa
- Yeroo Muraasaaf Tajaajilaan Aladha(TOS)
- Cufiinsa Sirna UST
- Suphaa fi Bakka buusuu

Akkasumas qajeelfamni kun muuxannoowwan bulchiinsa gaarii fi tarkaanfiiwwan tola ooltummaa eegumsa naannoo fooyyessuu fi itti gaafatamummaa maallaqaa hir'isuuf fudhachuu dandeessanis ni ibsa.

## **Kuni maaliif barbaachisaa ta'ee**

- Fayyummaa hawwaasaa fi naannoo eeguuf deeggarsa kee kennaa jirta. Yaa'aan UST, ittisi yaa'aa, humnaan ol guutuun, taankariin yaa'aa qabu fi ujummoowwan irraa kan gadhiifaman biyyee fi bishaan lafa jalaa faalu. Hawwaasi naannoo kee bishaan lafa jalaa akka madda bidhaan dhugaatiitti fayyadamu. Itti dabalataan yaa'aan UST balaa abiddaa yookaan dhohiinsa fiduu danda'a, kunis nageenya hawwaasaaf sodaachisaa dha.
- Yaa'aa gadi dhiifamu ittisuun investimantii daldalaa keessan isiniif eega. Ulaagaa eeguu fi yaa'aa gadhiifaman dafanii adda baasuu fi gabaasuu barbaachisaa dha. Baasiin yaa'aa gadhiifamu qulqulleessuuf oolu, adabbii ta'u dabalatatti qaala'aa ta'uu danda'a kunis yeroo daldalaa hojii dhaabuu fiduu danda'a. Akkasumas, gatiin qabeenya keessan yaa'aa peetirooliyeemii gadhiifamuun hubamuu danda'a. Hatattamaan deebii kennuun fi yaa'aa gadhiifamu to'achuun baasii qulqulleessuuf baafamuu fi balaa naannoo hir'isuu dandeessu.

Galmeen kun bakka bu'aa seera fi ittiin bulmaata naannoo Tennessee miti, yookin ofii isa'atiin seera yookin danbii miti. Hubannoo seeraa fi dambii bal'aa fi guutuu argachuuf, maaloo Seera UST fi Seera Taankarii Kuusaa Lafa Jala, Boqonnaa 0400-18-01 ilaalaa. Seerri kunis marsariitii Barreessaa Naannoo Tennessee : <https://publications.tnsosfiles.com/rules/0400/0400-18/0400-18.htm> irraa argachuu dandeessu.

## Unka Guutamu

Unki sanadoota guutamuu Diviizhinii Taankarii Kuusaa Lafa Jalaa (Diviizhinii) marsariitii:

<https://www.tn.gov/environment/program-areas/ust-underground-storage-tanks/forms-guidance.html> irratti argama:

### Yaadachiisa

<b>IBSA UNKAA</b>	<b>LAKKOOFSA</b>
Yaadachiisa Warra Bitanii	CN-1392
Jijjiirraa Teessoo Ergaa Abbaa Qabeenyaa	CN-1383
Yaadachiisa Taankariwwan Kuusaa Lafa Jalaa	CN-1260
Yaadachiisa Agarsiistuu Abbaa Qabeenyummaa	CN-1186
Unka Yaadachiisa Fee'umsaan Duraa	CN-1288
Jijjiirraa Abbaa Qabeenyummaa Gurguraan Gabaafamu	CN-0911

### Guutinsa Ulaagaa Hojmaataa

<b>IBSA UNKAA</b>	<b>LAKKOOFSA</b>
Gabaasa Qorannoo Hojmaata Safartuu Taankarii Aawutomaatikaalaa Kan Waggaa	CN-2624
Gabaasa Qorannoo Elektiroonikaalaa To'annoo Bakka Duwwaa Qaama Lamaan Gidduu Jiru Kan Waggaa	CN-1339
Gabaasa Qorannoo Haayidiroostaatikii Qindoomina Qabiyyee Saampii	CN-2664
Ragaa Guyyuu Kan Sakattii Ijaan Qaamolee Raabsituu Mijaawoo Hin Taane Irratti Godhamuu	CN-1284
Cheekliistii Mijaa'ummaa Meeshaalee	CN-1285
Gaafannoo Qormaata Eegumsa Gaalvaanik Kaatodikii	CN-1140
Unka Dubbisa Reektifaayerii Eegumsa Iimpireesdi Kaarentii Kaatodikii	CN-1282
Gaafannoo Qormaata Eegumsa Impireesdi Kaarentii Kaatodikii Kan Yeroo Ammaa	CN-1309
Unka Qorannoo Xuuxxuu Dhangala'aa Kan Haayidiroostaatikii Sadarkaan Isaa Gadi Bu'aa	CN-2644
Gabaasa Safartuu Taankarii Maanuwaalii Kan Ji'aa	CN-1367
Unka Sakattii Daawwannaa Faasiliitii Kan Ji'aa / Waggaa	CN-2544
Gabaasa Qorannoo Elektiroonikaalaa To'annoo Bakka Duwwaa Qaama Lamaan Gidduu Jiru Kan Ji'aa	CN-1340
Galmeessii Sakattii Baaldii Dhangalaatii To'atuu Kan Ji'aa	CN-1286
Sakattii Hojmaata Guutiinsa Irra Darbaa Ittisuuuf Gargaaranii	CN-2584
Sakattii Jabeenya Sarara Sirroominaa fi Kan Adda Baastuu Dhimmuu	CN-1341
Galmees sakatta'iinsa Raabsituu Kurmaanaan Godhamu	CN-1287
Gabaasa Qorannoo Haayidiroostaatikii Kan Meeshaa Yaa'iinsa Ittisuu	CN-1366
Ibsa Mijaa'inaa	CN-1283
Gabaasa Qorannoo Dhimmisuu Taankarii	CN-1601

Wajjira dirree dhaabbata keessanitti dhiihoo jiru qunnamuuf kaartaa fuula itti aanu irratti argamu fayyadamaa.

# Waajira Bakkee Naannoo

<https://www.tn.gov/environment/contacts/about-field-offices>

Waayee Naannoo Tennessee  
irratti gaaffii qabduu?  
1-888-891-TDEC (8332) irratti  
bilbilaa  
[ask.tdec@tn.gov](mailto:ask.tdec@tn.gov)

## Nashville

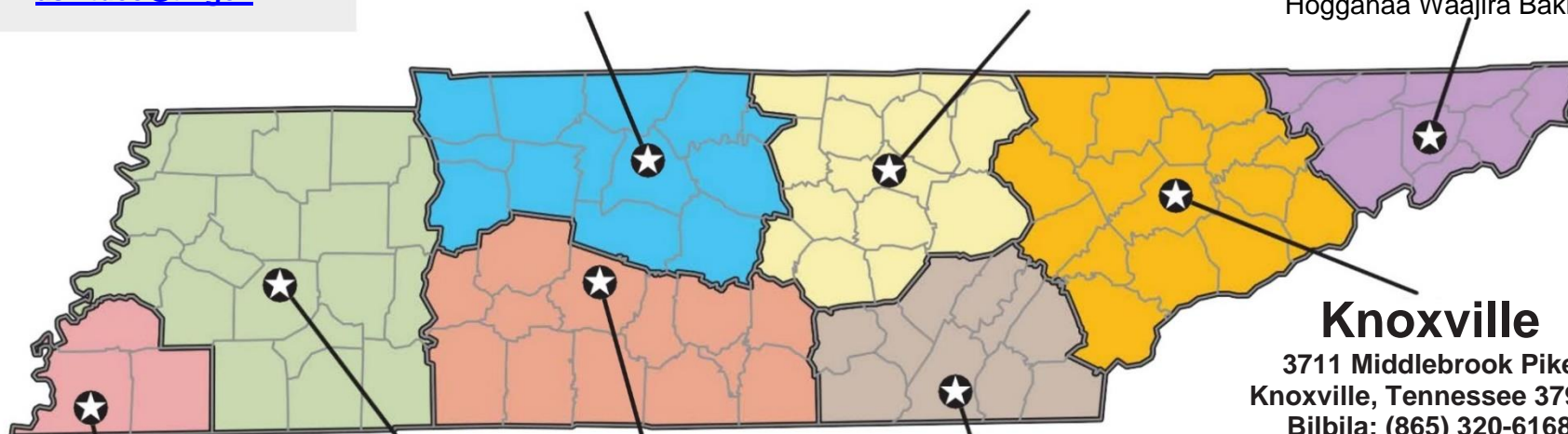
711 R.S. Gass Boulevard  
Nashville, Tennessee 37216  
Bilbila: (615) 761-7590  
[Rhonda Key](#)  
Hogganaa Waajira Bakkee

## Cookeville

1221 South Willow Avenue  
Cookeville, Tennessee 38506  
Bilbila: (931) 337-4172  
[Frank Pointer](#)  
Hogganaa Waajira Bakkee

## Johnson City

2305 Silverdale Road  
Johnson City, Tennessee  
37601  
Bilbila: (423) 438-9100  
[Kevin Rice](#)  
Hogganaa Waajira Bakkee



## Jackson

1625 Hollywood Drive  
Jackson, Tennessee 38305  
Bilbila: (731) 431-2924  
[Ronda Johnson](#)  
Hogganaa Waajira Bakkee

## Chattanooga

1301 Riverfront Parkway, Suite #206  
Chattanooga, Tennessee 37402  
Bilbila: (931) 337-4172  
[Frank Pointer](#)  
Hogganaa Waajira Bakkee

## Knoxville

3711 Middlebrook Pike  
Knoxville, Tennessee 37921  
Bilbila: (865) 320-6168  
[Holly Marlowe](#)  
Hogganaa Waajira Bakkee

## Memphis

8383 Wolf Lake Drive  
Bartlett, Tennessee 38133  
Bilbila: (901) 232-5968  
[Roshanda Forsythe](#)  
Hogganaa Waajira Bakkee

## Columbia

1421 Hampshire Pike  
Columbia, Tennessee 38401  
Bilbila: (931) 306-8712  
[Dale Robinson](#)  
Hogganaa Waajira Bakkee



Stan Boyd, Daarikteeraa  
Diviizhinii Taankariiiwwan Kuusaa  
Lafa Jalaa  
(615) 532-0945  
[Stan.Boyd@tn.gov](mailto:Stan.Boyd@tn.gov)

## Boqonnaa 2 Kaffaltii fi Galmee, Mallattoo Diimaa, fi Itti Gaafatamummaa Faayinaansii

Galmeen abbaa qabeenyaa taankarii, meeshaa kaa'aman, bakka isaan qaamaan argaman, lakkoobsa taankarii, qabiyyee, hanga, meeshaa isaan irraa ijaaramanii fi kkf kan ibsu dha. Taankarii kuusaa peetirooliyeemii lafa jalaa fi/ykn sirna UST dhaabuun dursa yoo xiqqaate **guyyoota 15** dursuun *Beeksisa Dhaabbii Taankarii Kuusaa Lafa Jalaa*(CN-1288) kan: <https://www.tn.gov/environment/program-areas/ust-underground-storage-tanks/notification-fees.html> irratti argamuun beeksisaa.

Taankaroonni boba'aa makaa etaanoonii %10, ykn baayoodiizilii %20 ol qaban *Tarree Sakatta'iinsa Walsimsiisaa Meeshaalee* (CN-1285) fi *Ibsa Walsimsiisaa* (CN-1283) guutuu fi dhiyeessu qabu. Yoo sirna UST haaraa fe'aa kan jirtan ta'e, unki keessan Unka CN-1288 waliin hammatamuu qabu.

Unka dursanii dhaabuu dabalatatti, *Beeksisa Taankarii Kuusaa Lafa Jalaaf* guutame unka CN-1260 erga sirni UST haaraan kaa'amee booda **guyyoota 15** keessatti dhiyeessu qabdu.

Abban qabeenyaa/dhaabbati taankarii kamiyyuu maqaa daldalaa Waajjira Barreessaa Tennesseeen galmaa'e qabaachuu qabu.

Yeroo jijjiiramni kamiyyuu UST keessan irratti taasifame Diviizhinicha beeksisuu qabdu. Jijjiiramootni haala armaan gadii dirqama **guyyoota 30** keessatti gara Diviizhinichaatti gabaafamuu qabu:

- Abbummaa: teessoo abbaa qabeenyaa fi operetera, fooyya'iinsa ykn bakka buusuu taankarii ykn ujummoo, yeroof ykn dhaabbataadhaan kutaa taankarii ykn taankarii cufuu, mala yaa'aa adda baasuu, oomisha kuufame, fi odeeffannoo quunnamtii
- Jijjiirama tajaajilaa yookaan kuufama oomisha bakka to'annoo qabu gara hin qabneetti jijjiiramuu
- Jijjiiramni Opireetaraa Gita A yookaan Gita B dirqama kuus deetaa leenjii weebii irratti hundaa'e kan Diviizhinichaa <https://tdec.tn.gov/tankhelper> tti gabaasuu qabu

Unka beeksisa marsariitii keenya:

- <https://www.tn.gov/environment/program-areas/ust-underground-storage-tanks/notification-fees.html> irraa buufachuu dandeessu yookiin
- Unka beeksisaa argachuuf yeroo kamiyyuu hojjettoota waajjira dirree quunnamuun (kaartaa armaan olii ilaala) ykn iimeelii [UST.Tanks@tn.gov](mailto:UST.Tanks@tn.gov) fayyasamaa.



Adoolessa 1, 2004 Seerri Taankarii Kuusaa Lafa Jalaa Peetirooliyeemii Tennessee (UST Act) ragaa yeroo ammaa malee taankarii kamiifuu beeksisa ykn mallattoo dispenser fi/ykn buufata guutuu irratti maxxansuuf aangoo kennuu jalqabe. Itti aansee labsiin Imaammata Annisaa Federaalaa bara 2005 bahe, naannoleen maallaqa Federaalaa irraa argataniin sagantaa dhorkaa geejjibaa akka qabaatan gaafateera. Kanarraa kan ka'e, Diviizhinichi adeemsa seerota kabajuu qopheessee hojiirra oolcheera.

Adoolessa 1, 2008 fooyya'iinsi haaraan Seera UST irratti taasifame ragaa waggaa dhabamsiisuudhaan boba'aan UST keessa kaa'amuu fi dhiisuu isaa salphisee kaa'eera. Kanarran kan ka'e, Adoolessa 1, 2008 irraa eegalee jijjiiramootni kunneen ni taasifamu:

- Diviizhinichi kana booda tokkoon tokkoon dhaabbataaf waraqaa ragaa hin kennu;
- Diviizhinichi nagahee kaffaltii taankarii waggaa dandeettii boba'aa fudhachuu wajjin hin qabanne ni kenna; fi
- Diviizhinichi tokkoon tokkoon buufata UST guutuu hundaa irratti mallattoo diimaa maxxansuuf aangoo qaba, akkasumas dhorkaa boba'aa bakka bakkatti geejjibamu kaneen:
  - Kaffaltii Taankarii waggaa kan hin kaffalle fi adabbii yeroon isaa irra darben kan wal qabate; fi **Kaffaltiin addan kan cite 7/1/2021 hanga 6/30/2026\* tti.**
  - Sarbama seeraa ajaja dhumaa fi adabbii siviilii fidan

Saayitonni dhorkaa geejjibaa jala jiran marsariitii Diviizhinichaa jalatti maxxanfamu. Tarreeffamni dhorkaa yeroo ammaa guyya guyyaan raabsitonni akka ilaalaniif ni fooyyefama. Adeemsi mallattoo diimaa taankarii dhaabbata tokko keessa jiran hunda irratti kan hojjetu yoo ta'u, mallattoo diimaan buqqifamuuf hanga hayyama barreeffamaa Daarektarii Diviizhinii irraa argattutti baafamuu hin danda'u. Akkuma mallattoo diimaa irratti ibsame, mallattoo diimaa hayyama malee buqqisuun akkaataa T.C.A. § 68-215-106(d) mallattoo diimaatti dhorkaa Gita C dha.

**HIN GEESSISIINAA  
(DELIVER HIN GODHIINAA)**

Geessisiin kamiyyuu seera T.C.A. sarbinaan 68-215-106(a)

Deeliiveriin adabbii hanga \$10,000 ta'u fiduu danda'a.  
T.C.A. 68-215-121

Eeyyama malee mallattoo buqqisuun balleessaa  
**Gita C ti**

Diviizhinii UST (615) 532-0945 irratti quunnamaa

Fakkeenya Mallattoo Diimaa

Abbootiin qabeenyaa/opereetoroonni UST sirna UST irraa gadhiifamuuf dirqama kaffaltii maallaqaa eeguu qabu. Ittii gaafatamummaa Faayinaansii(Maallaqaa) jechuun:

- 1) Baasii qulqulleessa faalamaa hundaaf kaffaluu danda'uu qabdu, fi/yookaan
- 2) Badii meeshaa fi/yookiin miidhaa qaamaatiif qaama sadaffaa bakka buusuu.

Tennessee fandii isteetii abbootii qabeenyaa maallaqaan yaa'a boba'aa qulqulleessuudhaaf gargaaruu argachuudhaaf carraa qabeettiidha. *Iyyati Ulaagaa Fandii* (CN-0943) marsariitii: <https://www.tn.gov/environment/program-areas/ust-underground-storage-tanks/forms-guidance.html> irratti argamu. Iyyatichi kaffaltii deebi'u argachuuf yeroo murtaa'e keessatti guutamee galmaa'uu qaba. Yeroo gadhiifamuun peetirooliyeemii shakkametti ykn mirkanaa'etti ulaagaa guutuu kee murteessuuf sakatta'iinsi hojiimaata ulaagaa guutuu ni gaggeeffama. Maallaqni hir'ifamuu danda'u kan ati saayitii kee qulqulleessuuf kaffaltu yoo dhaabbati kee seera hin eegne ykn galmeewwan hojimaata ulaagaa guutuuf barbaachisan hunda yoo hin dhiyessine ta'e guddaa ta'uu danda'a; kanaaf, hojimaata ulaagaa guutu eeguu fi galmeessuun barbaachisaa dha. Akkasumas, hangi hir'atu yoo sirni meeshaa UST ulaagaa murtaa'e kan guutu ta'e ni hir'ata.



## Boqonnaa 3 Leenjii Hojjetaa (Opireetaraa) Fi Gargaaraa Taankarii Tennessee

### Cuunfaa Gita Opireetaraa

Akka seerra Imaammata Annisaa Federaalaa kan bara 2005 tti dhaabbati kamiyyuu Opireetaroota murtaa'anii fi leenji'an kan Gita A, Gita B fi Gita C ni qaba.

	Oppireetera Gita A	Oppireetera Gita B	Oppireetera Gita C
<b>Ulaagaa Gita oppireetera kana eenyu guutaa?</b>	Walii galatti namoonni dhuunfaa kanneen sirna UST hojjechuu fi eeguu waliin wal-qabatee ulaagaalee seeraa fi to'annaa irratti xiyyeeffatan	Walii galattii kanneen sirna to'annoo hojii irra oolmaa UST kanneen bakkeetti hojjetaman qabanii fi kan UST waliin dhaabbilee tokko yookin isaa ol ta'aniif hojiilee hoggayyuu, seerota sirreessuu fi galmeessuu kan hojii irra oolchudhaaf itti gaafatamummaa qaban	Walii galattii haalota yeroo balaa kan agarsiisan yookin bibila dammaqinsa'atiif deebii kennuudhaaf nama toora jalqabaa irra jiran

Abbaan qabeenyaa Taankarii Opireetaroota Gita A fi Gita B dhaabbata isaaniif muuduuf dirqama qabu. Abban qabeenyaa Taankariis Leenjii Opireetarummaa Gita A fi/yookaan Gita B fudhachuu filachuu danda'u.

Ulaagaalee opereteraa Kutaa C guutuuf, mallattoon ykn maanuwaalii qajeelfamaa (bakka nama hin qabneef hin barbaachisu) bakka yeroo hojii idilee mul'atutti kaa'amuu qaba. Yoo xiqqaate, mallattoon yookaan maanuwaaliin wantoota armaan gadii of keessatti haammachuu qaba:

1. Dhangala'aa fi guutinsa humnaan olii irratti deebii kennuuf gahee hojjettoonni qaban,
2. Of eeggannoo, dammaqsiituuwanii, fi deebii koosolii mala uumamuu dhimmuu adda baasu irraa argameef qajeelfamoota jiran (hojiirra oolmaa yoo qabaatan),
3. Maqaa fi lakkoofsa nama qunnamtii wayita balaa hatattamaa fi to'annaa meeshaa dammaqsiituuwani,
4. Lakkoofsa balaa yeroo hatattamaa naannoo keessaa, fi
5. Qajeelfama balaa mudachuu danda'u kamiyyuu irraa fageenya murtaa'e eeggachuu.

Yoo dhaabbati keessan humna namaa hin qabaanne, Opireetarra gita kutaa B kan leenjii Opireetara gita kutaa C fudhate ulaagaa kana guutuu danda'a.

Filannoowwan ulaagaalee leenjii opereteraa guutuuf jiran:

✓ **Gargaaraa Taankarii Tennessee**

Diviizhiniin kun ulaagaa gita kutaa opireetaraa guutuuf sagantaa leenjii kallattii intarneetaa bilisaan kan kennuu dha. Abbaan qabeenyaa sirna UST tokko odeeffannoo beeksisa dhaabbatichaaf jiru irratti hundaa'uun leenjii opereteraa xumuruu ni danda'a. Abbaan qabeenyaa Beeksisa Taankarii Kuusaa Lafa Jalaa (CN- 1260) fooyya'e guutuudhaan odeeffannoo sirrii hin taane haaromsuu qaba. Opireetaroonni sirna UST moojulii leenjii hunda xumuruun irraa eegama. Waraqaan ragaa erga moojuliin leenjii sirnaan xumuramee kan maxxanfamu ta'a.

✓ **Qormaata Opereetara Sirna UST Biyyaalessaa**

Qormaanni opereteraa gita Kutaa A fi/ykn gita Kutaa B kan Mana Maree Koodii Idil-addunyaa (ICC) tiin kennamu leenjii opereteraa gita Kutaa A fi/ykn B guutuuf itti fayyadamuun ni danda'ama. Tokkoon tokkoon qormaataaf kaffaltiin muraasni kan kaffalamu yoo ta'u, iyyataan qormaata milkaa'inaan yoo xumure waggaa lamaaf waraqa ni qabaata.

✓ **Taankarii mana barnootaa**

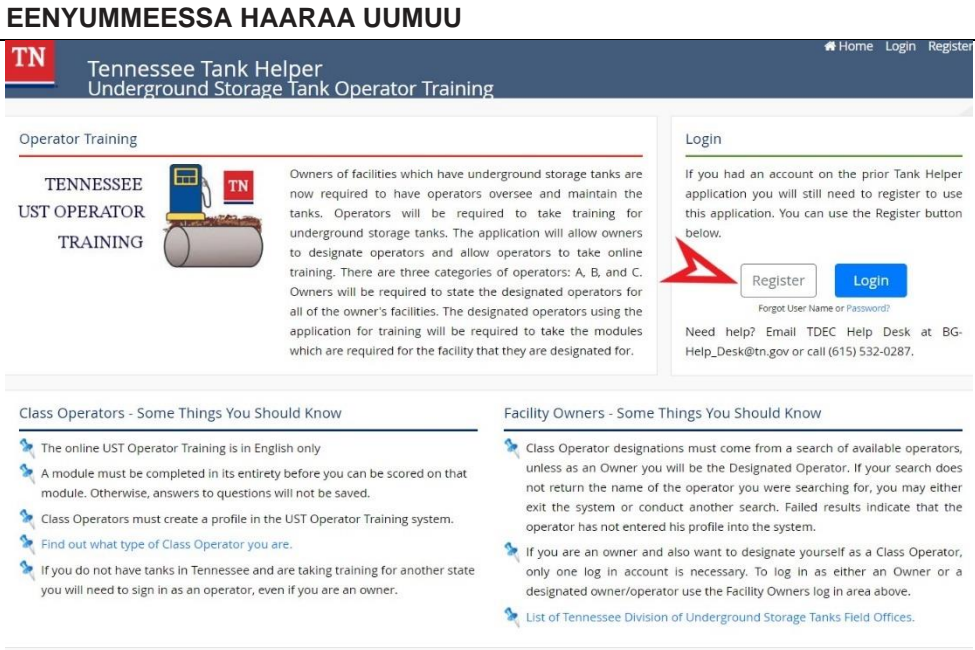
Diviizhiniin kun abbootii qabeenyaa/opereetota ykn qaamolee fedhii qaban kamiifuu kaneen karaa kamiinu hojjimaata UST ulaaga guutaniif nama Diviizhinicha keessaan barsiifameen leenjii daree guyyaa tokkoo ni kenna. Namna kamiyyu kan qormaata xumuraa irratti qabxii %70 fi isaa ol fideef waraqaan ragaa leenjii Opireetarummaa A/B ni kennama. Namni hundi waraqa ragaa xumuruu isaanii agarsiisu ni fudhatu.

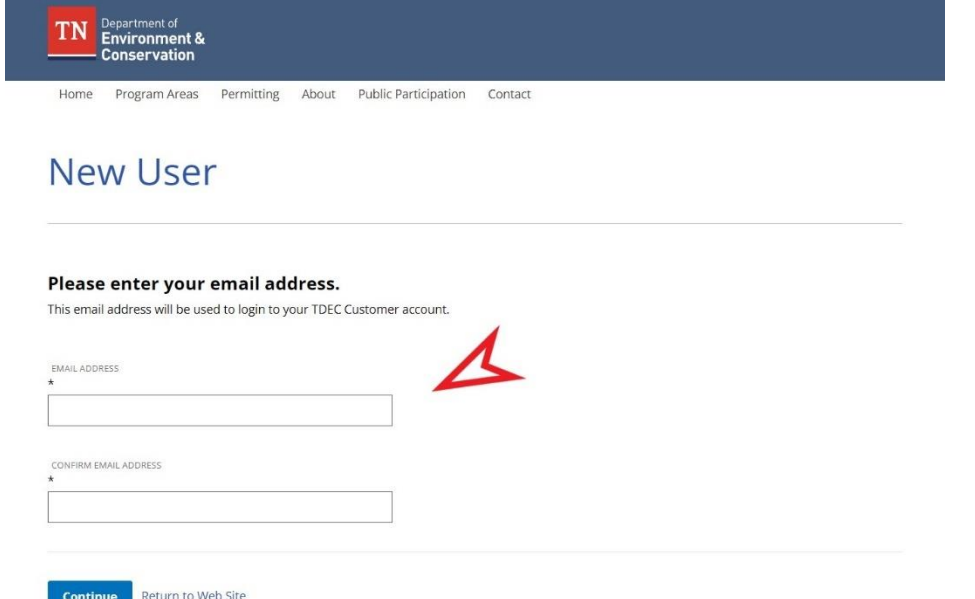
Abbaan qabeenyaa marsariitii Gargaaraa Taankarii Tennessee (<https://tdec.tn.gov/tankhelper>) erga fayyadamee enyumeessa banuun dhabbatoota kamiifuu Gita A fi Gita B kan muudu ta'a. **Yoo Opireetarri Gita A fi/yookaan Gita B jijjiirame, Opireetarri haaraa guyyaa 30 keessatti muudamuu qaba.** Yoo gargaarsa kan barbaaddan ta'e, maaloo deeskii gargaarsaa TDEC [BG-Help\\_desk@tn.gov](mailto:BG-Help_desk@tn.gov) yookaan bilbila (615) 532-0287 fayyadamuun gargaarsa leenjii oppireetaraa gaafachuu dandeessu. Wanti tokko isin yaadatti qabachuu qabdan, yoo yeroo sakatta'iinsatti sarbamiinsi guddaan argame, leenjiin opireetaraa irra deebiin ni barbaachisa.

Kutaan maanuwaalii oppireetara armaan gadii adeemsa tartiiba Gargaaraa Taankarii Tennessee toora interneetii irraa agarsiisa:

- 1) Eenyummeessa haaraa uumuu
- 2) Seensa Eenyummeessa
- 3) Daashiboordii Leenjii
- 4) Opireetaroonni eenyummeessa abbaa qabeenyaa dabaluu
- 5) Abbaan qabeenyaa dhaabbata isaaniitti opireetara muuduu, fi
- 6) Opireetaroonni muudama abbaa qabeenyaa fudhachuu.

Gargaaraa Taankarii Tennessee<https://tdec.tn.gov/tankhelper>Eenyummeessa haaraa uumuu

EENYUMMEESSA HAARAA UUMUU	
 <p><b>Operator Training</b></p> <p><b>TENNESSEE UST OPERATOR TRAINING</b></p> <p>Owners of facilities which have underground storage tanks are now required to have operators oversee and maintain the tanks. Operators will be required to take training for underground storage tanks. The application will allow owners to designate operators and allow operators to take online training. There are three categories of operators: A, B, and C. Owners will be required to state the designated operators for all of the owner's facilities. The designated operators using the application for training will be required to take the modules which are required for the facility that they are designated for.</p> <p><b>Class Operators - Some Things You Should Know</b></p> <ul style="list-style-type: none"> <li>The online UST Operator Training is in English only</li> <li>A module must be completed in its entirety before you can be scored on that module. Otherwise, answers to questions will not be saved.</li> <li>Class Operators must create a profile in the UST Operator Training system.</li> <li>Find out what type of Class Operator you are.</li> <li>If you do not have tanks in Tennessee and are taking training for another state you will need to sign in as an operator, even if you are an owner.</li> </ul> <p><b>Facility Owners - Some Things You Should Know</b></p> <ul style="list-style-type: none"> <li>Class Operator designations must come from a search of available operators, unless as an Owner you will be the Designated Operator. If your search does not return the name of the operator you were searching for, you may either exit the system or conduct another search. Failed results indicate that the operator has not entered his profile into the system.</li> <li>If you are an owner and also want to designate yourself as a Class Operator, only one log in account is necessary. To log in as either an Owner or a designated owner/operator use the Facility Owners log in area above.</li> <li>List of Tennessee Division of Underground Storage Tanks Field Offices.</li> </ul>	<p>Eenyummeessa haaraa uumuuf, <b>Register</b> kan jedhu cuqaasaa.</p>

GALMEE	
 <p><b>Department of Environment &amp; Conservation</b></p> <p>Home Program Areas Permitting About Public Participation Contact</p> <h2>New User</h2> <p><b>Please enter your email address.</b> This email address will be used to login to your TDEC Customer account.</p> <p>EMAIL ADDRESS *</p> <input type="text"/> <p>CONFIRM EMAIL ADDRESS *</p> <input type="text"/> <p><b>Continue</b> Return to Web Site</p>	<p>limeelii ala lama galchuun biinkoo <b>CONTINUE</b> jedhu filadhaa.</p>

**GALMEE (itti fufa)**

**TN** Department of Environment & Conservation

Home Program Areas Permitting About Public Participation Contact

## New User

Please enter the information below and click 'Continue'

Please enter the information below (\* Required Fields).

EMAIL ADDRESS \*

PREFIX (OPTIONAL)

FIRST NAME \*

Eenyumeessa uumuuf odeeffannoo fayyadamaa haaraa guutaa xumuraa.

Yeroo biraa akka hin daganneef yaadachiisa odeeffannoo seensaa jecha darbii waliin kaa'adha.

Beeksisa karaa ergaa gabaabaa fudhachuuf, lakkoobsa bilbilaa odeeffannoo isaa waliin galchaa.

**CONTINUE** kan jedhu cuqaasaa.

**GALMEEN MILKAA'EERA**

**TN** Department of Environment & Conservation

Home Program Areas Permitting About Public Participation Contact

### TDEC REGISTRATION

Registration was a success, you will receive an email to continue.

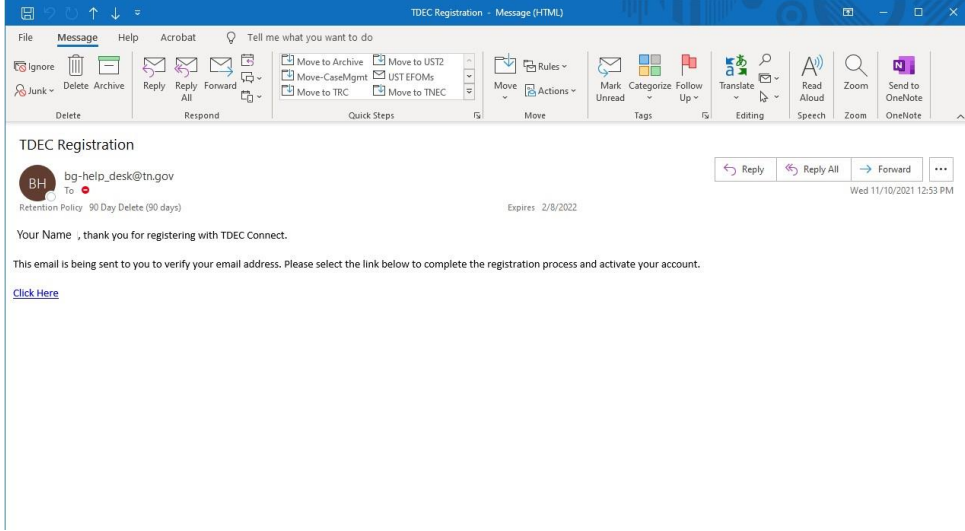
You have 30 minutes to respond from the email.

Return to the Web Site or Close the Browser

PROGRAMS	RESOURCES	FEATURED LINKS	DEPARTMENT OF ENVIRONMENT & CONSERVATION David W. Solyers
Air	Employment	Annual Report	312 Rosa L. Parks Ave. Nashville, TN 37243 (888) 891-TDEC (8332) Email Questions to TDEC
Remediation	Enforcement	Environmental Field Offices	
Solid Waste Management	Grants	The TN Conservationist	
Underground Storage Tanks	Public Participation	TDEC 25	
Water			

**limeeliin** liinkii qabu kan daqiiqaa 30 keessatti fayyadamuu dandeessan isiniif ergama.

limeelii banuun liinkichatti bu'uun itti fufaa.

**MIRKANEESSA IIMEELII**


**TDEC Registration**

bg-help\_desk@tn.gov  
Retention Policy: 90 Day Delete (90 days) Expires: 2/8/2022

Your Name, thank you for registering with TDEC Connect.

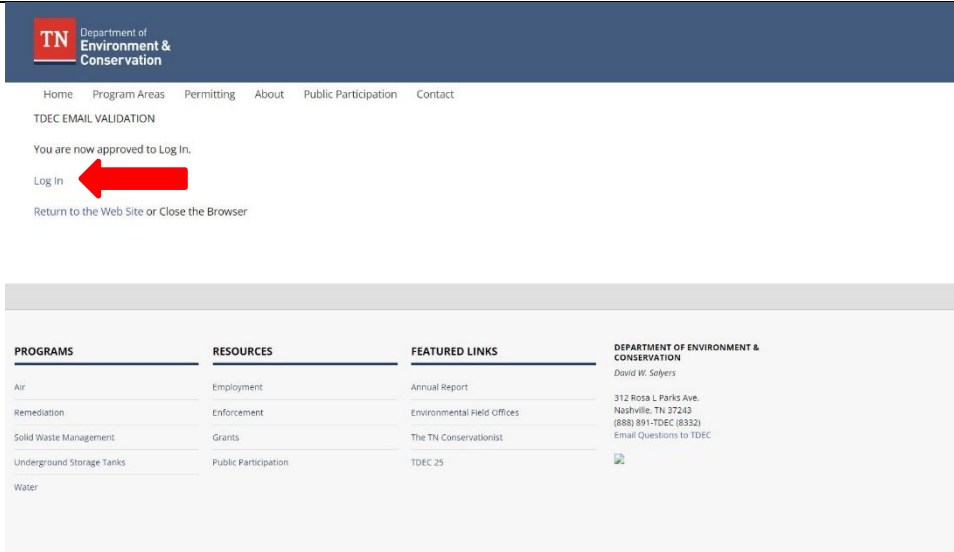
This email is being sent to you to verify your email address. Please select the link below to complete the registration process and activate your account.

[Click Here](#)

Kuni iimeelii liinkii [bg-help\\_desk@tn.gov](mailto:bg-help_desk@tn.gov) waliini dha.

**Click Here** kan jedhu cuqaasaa.

limeelii keessan mirkaneessuuf **liinkicha irratti cuqaasaa.**

**MIRKANEESSA IIMEELII (Itti fufa)**


**TN** Department of Environment & Conservation

Home Program Areas Permitting About Public Participation Contact

**TDEC EMAIL VALIDATION**

You are now approved to Log In.

[Log In](#)

Return to the Web Site or Close the Browser

PROGRAMS	RESOURCES	FEATURED LINKS	DEPARTMENT OF ENVIRONMENT & CONSERVATION
Air	Employment	Annual Report	David W. Salyers
Remediation	Enforcement	Environmental Field Offices	312 Rosa L Parks Ave. Nashville, TN 37243 (888) 891-TDEC (8332) Email Questions to TDEC
Solid Waste Management	Grants	The TN Conservationist	
Underground Storage Tanks	Public Participation	TDEC 25	
Water			

Liinkiin iimeelichaa gara argii mirkaneessaatti isin geessa.

**Log In** kan jedhu cuqaasaa.

## SEENSA APILIKEESHINII

Teesoo iimeelii fi jecha darbii (jecha darbii yeroo eenyumeessa fayyadamaa keessani galchitan) keessaniin seenaa.

**Log In** cuqaasaa.

## SEENSA APILIKEESHINII (Itti fufa)

Koodiin nageenyaa dijiitii ja'aa akka isiniif ergamuuf bilbila yookaan iimeelii filadhaa.

Yoo kanaan dura lakkoofsi bilbilaa galfameera ta'e, koodiin dijiitii jahaa ergaa barreeffamaatiin isinii ergama.

kanaan achi, koodiin dijiitii ja'aa karaa iimeelii isiniif ergama.

**CONTINUE** kan jedhu cuqaasaa.

## SEENSA APILIKEESHINII (Itti fufa)

**TN** Department of Environment & Conservation

Home Program Areas Permitting About Public Participation Contact

A code has been sent to your phone. Please respond within 30 minutes.

Enter the code here:

[Continue](#)

---

PROGRAMS	RESOURCES	FEATURED LINKS	DEPARTMENT OF ENVIRONMENT & CONSERVATION
Air	Employment	Annual Report	David W. Soljers
Remediation	Enforcement	Environmental Field Offices	312 Rosa L Parks Ave.
Solid Waste Management	Grants	The TN Conservatorist	Nashville, TN 37243
Underground Storage Tanks	Public Participation	TDEC 25	(888) 891-TDEC (8332)
Water			Email Questions to TDEC

[TN.gov Services](#) [TN.gov Directory](#) [Tennessee.TV](#) [Web Policies](#) [Title VI](#) [About Tennessee](#) [Accessibility](#) [About TN.gov](#) [Help & Contact](#) [Survey](#)

Koodii dijiitii ja'aa ergaa gabaabaa yookaan iimeelii irraa fudhattan galchaa.

**CONTINUE** kan jedhu cuqaasaa.

## SEENSI APILIKEESHINII MILKAA'EERA

**TN** Tennessee Tank Helper  
Underground Storage Tank Operator Training

Profile: mark.brawwell@tn.gov (Settings) Log Out

Operator Training

**TENNESSEE UST OPERATOR TRAINING**

Owners of facilities which have underground storage tanks are now required to have operators oversee and maintain the tanks. Operators will be required to take training for underground storage tanks. The application will allow owners to designate operators and allow operators to take online training. There are three categories of operators: A, B, and C. Owners will be required to state the designated operators for all of the owner's facilities. The designated operators using the application for training will be required to take the modules which are required for the facility that they are designated for.

Login

You are already logged in

[Go to Dashboard](#)

**Class Operators - Some Things You Should Know**

- The online UST Operator Training is in English only
- A module must be completed in its entirety before you can be scored on that module. Otherwise, answers to questions will not be saved.
- Class Operators must create a profile in the UST Operator Training system.
- Find out what type of Class Operator you are.
- If you do not have tanks in Tennessee and are taking training for another state you will need to sign in as an operator, even if you are an owner.

**Facility Owners - Some Things You Should Know**

- Class Operator designations must come from a search of available operators, unless as an Owner you will be the Designated Operator. If your search does not return the name of the operator you were searching for, you may either exit the system or conduct another search. Failed results indicate that the operator has not entered his profile into the system.
- If you are an owner and also want to designate yourself as a Class Operator, only one log in account is necessary. To log in as either an Owner or a designated owner/operator use the Facility Owners log in area above.
- List of Tennessee Division of Underground Storage Tanks Field Offices.

Maqaa fayyadamaa xumuruuf biinkoo **GO TO DASHBOARD** jedhu cuqaasaa.



## MAQAA FAYYADAMAA – TARKAANFII 1

Tennessee Tank Helper  
Underground Storage Tank Operator Training

Profile: mark.braswell@tn.gov (Settings) Log Out

Step 1: Complete Your Profile | Step 2: Your Tank Location | Step 3: Choose Your Role (Owner or Operator) | Step 4: Review & Complete

**Profile Information**

First Name: Mark | Last Name: Braswell

Company Name:

Phone1:  Ext.:  Extension:

Phone2:  Ext.:  Extension:

Address Line 1:  Bidg No and Street Name

Address Line 2:  Unit, Suite, Apt Number

City/State/Zip:   Zip code:  Zip Ext.:

[Continue](#)

Eenyummeessa qindeessanii guutummaatti xumuruuf maqaan fayyadamaa xumuramuu qaba.

(bakki Company name fi phone2 jedhu hin barbaachisu)

Tarkaanfii 1 xumuraa

**CONTINUE** kan jedhu cuqaasaa.

## MAQAA FAYYADAMAA – TARKAANFII 2

Tennessee Tank Helper  
Underground Storage Tank Operator Training

Profile: mark.braswell@tn.gov (Settings) Log Out

Step 1: Complete Your Profile | Step 2: Your Tank Location | Step 3: Choose Your Role (Owner or Operator) | Step 4: Review & Complete

**What State(s) are your tanks located in ?**

Country:  US

State:  TN

[Previous](#) [Continue](#)

Tarkaanfii 2 xumuraa

**CONTINUE** kan jedhu cuqaasaa.

### MAQAA FAYYADAMAA – TARKAANFII 3

**TN Tennessee Tank Helper**  
Underground Storage Tank Operator Training

Profile: mark.braswell@tn.gov (Settings) Log Out

Step 1: Complete Your Profile  
Step 2: Your Tank Location  
**Step 3: Choose Your Role (Owner or Operator)**  
Step 4: Review & Complete

**Choose Your Role (Owner or Operator)**

**Owner** [Training can be added to this account.]  
I am:  
The Owner or Person authorized by the Owner to designate Operators

I Know the Owner ID:  [How to find Owner ID?](#)

**Operator**  
I am:  
Going to take A, B, or C training  
Going to be designated for at least 1 facility

[Previous](#) [Continue](#)

Tarkaanfii 3  
xumuraa

Gahee abbaa qabeenyaa yookaan Opireetaraa filadhaa.

IDn abbaa qabeenyaa (**ID dhaabbatichaa miti**) gahee abbaa qabeenyummaaf yookaan bakka bu'ummaa abbaa qabeenyumaaf galfame.

**CONTINUE** kan jedhu cuqaasaa.

### MAQAA FAYYADAMAA – TARKAANFII 4

**TN Tennessee Tank Helper**  
Underground Storage Tank Operator Training

Profile: mark.braswell@tn.gov (Settings) Log Out

Step 1: Complete Your Profile  
Step 2: Your Tank Location  
Step 3: Choose Your Role (Owner or Operator)  
**Step 4: Review & Complete**

**Profile Information**  
Name: Mark Braswell  
Phone1: (423) 621-0062  
Phone2: (423) 741-0199  
Address: 2305 Silverdale Dr  
City / State / Zip: Johnson City TN 37659

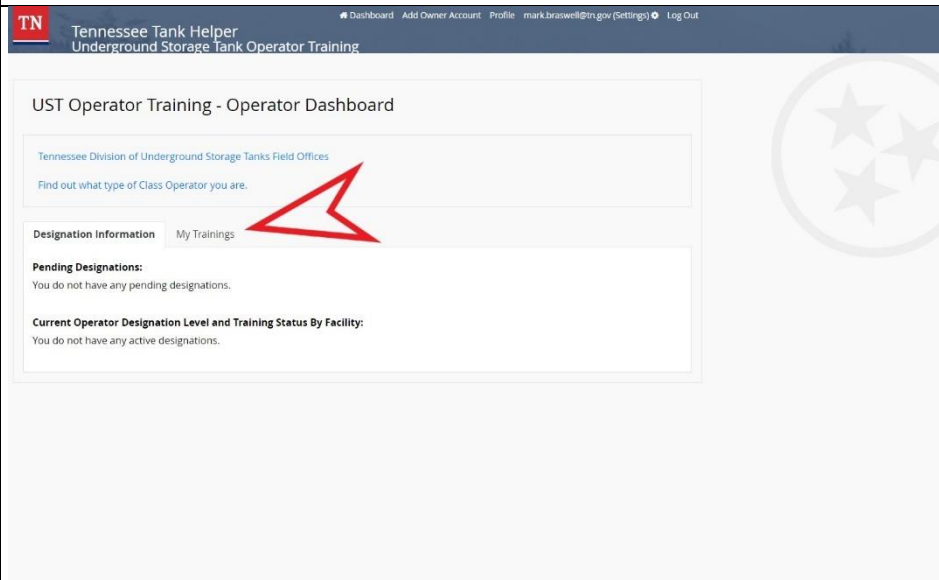
**Tank Locations**  
Country: US  
States: TN

**Your Role**  
OPERATOR

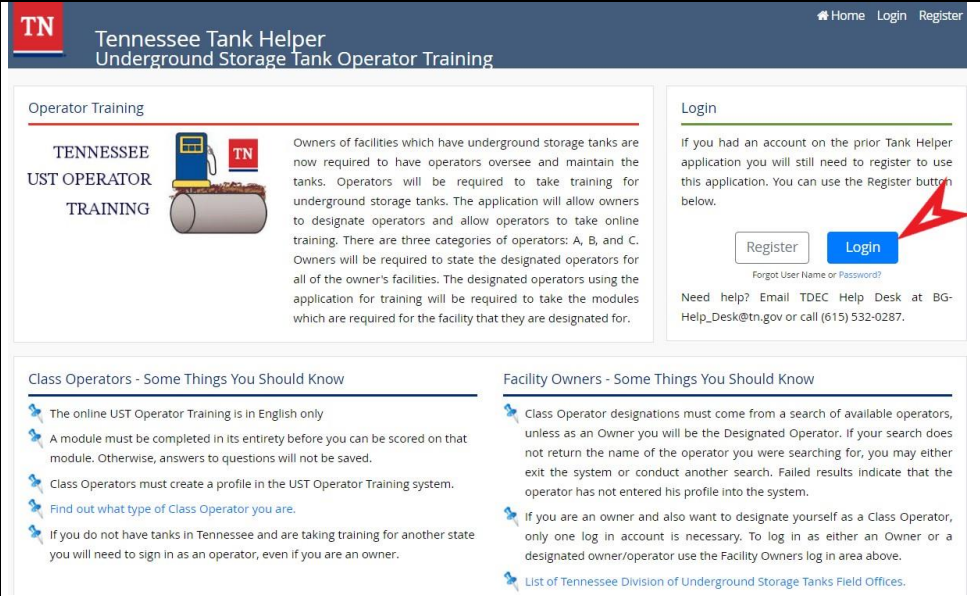
[Previous](#) [Submit](#)

Tarkaanfii 4  
xumuraa

**SUBMIT** kan jedhu cuqaasaa

MAQAA FAYYADAMAA QINDEESSUU FI SEENSA MILKAA'UU	
	<p>Kuni <b>DAASHIBOORDII</b> leenjii opireetaraa FI muudama opireetaraa dha.</p>

## Seensa Eenyummeessaa Kan Duraanii

SEENI	
 <p>The screenshot shows the Tennessee Tank Helper website. The header includes the TN logo and navigation links for Home, Login, and Register. The main content area is titled "Operator Training" and "TENNESSEE UST OPERATOR TRAINING". It features an illustration of a fuel nozzle and a tank. Text explains that owners of facilities with underground storage tanks are now required to have operators oversee and maintain the tanks. Operators must take training, and the application allows owners to designate operators. There are three categories of operators: A, B, and C. Owners must state the designated operators for all facilities. Designated operators using the application for training will be required to take modules for the facility they are designated for.</p> <p>The "Login" section includes a "Register" button and a "Login" button, with a red arrow pointing to the "Login" button. Below the buttons are links for "Forgot User Name or Password?", "Need help? Email TDEC Help Desk at BG-Help_Desk@tn.gov or call (615) 532-0287.", and two sections: "Class Operators - Some Things You Should Know" and "Facility Owners - Some Things You Should Know".</p>	<p>Eenyummeessa Gargaaraa Taankarii keessan seenuuf marsariitii <a href="https://tdec.tn.gov/tankhelper">https://tdec.tn.gov/tankhelper</a> filachuun iimeelii fi jecha darbi keessan galchaa.</p>

SEENSA EENYUMMEESSAA KAN DURAAII	
 <p>The screenshot shows the Tennessee Department of Environment &amp; Conservation website. The header includes the TN logo and navigation links for Home, Program Areas, Permitting, About, Public Participation, and Contact. The main content area is titled "Please select a method below to receive your 6 digit code needed to finalize your log in." and features two radio buttons: "Phone" (selected) and "Email". A "Continue" button is located below the radio buttons.</p>	<p>Seenuuf yeroo hundaa koodiin dijiitii ja'aa galchamuu qaba.</p> <p>Koodiin kunis karaa ergaa gabaabaa yookaan iimeelii isiniif ergama.</p>

## Daashiboordii Leenjii

Tennessee Tank Helper  
Underground Storage Tank Operator Training

[Dashboard](#) [Add Owner Account](#) [Profile](#) [mark.braswell@tn.gov \(Settings\)](#) [Log Out](#)

### UST Operator Training - Operator Dashboard

Tennessee Division of Underground Storage Tanks Field Offices

Find out what type of Class Operator you are.

Designation Information
My Trainings

**Class Operator Required Training Modules:**  
 You do not have any required trainings at this time.  
 The required training is based on what type of Class Operator has been selected and information from the Division's database. If you believe that an entire module or its sections below are required based on this data and it is incorrect you may want to have the owner or owner's authorized representative submit a new notification form before you begin training.

**Class Operator Optional Training Modules:**  
 Displayed below are optional training modules. You are not required to view these modules to complete your training. You may select any module or module section listed. However, be advised that any optional training chosen will be scored the same as required training in questions answered correctly or incorrectly.

Designation Level	Module Name	Module Sections	Status	Select Training
A	Class A Operator General Training	<input type="checkbox"/> Entire Module (View Content)	Completed on 11/10/2021	<a href="#">ReTake Training (Print Cert)</a>
B	Class B Operator General Training	<input type="checkbox"/> Entire Module	Incomplete	<a href="#">Start Training</a>
B	Spill and Overfill Prevention	<input type="checkbox"/> Entire Module	Incomplete	<a href="#">Start Training</a>

Gosi daashiboordii irratti mul'ifamuu (abbaa qabeenyaa yookaan opireetara) gahee dura filatame irratti hundaa'a. Xiyyi gara **My Trainings** agarsiisu (harka mirgaa Odeeffannoo Muudamaa). Taabii **My Trainings** kan jedhu cuqaasaa.

## DAASHIBOORDII LEENJII (Itti fufa)

TN
Tennessee Tank Helper  
Underground Storage Tank Operator Training
Dashboard Add Owner Account Profile mark.braswell@tn.gov (Settings) Log Out

## UST Operator Training - Operator Dashboard

Tennessee Division of Underground Storage Tanks Field Offices

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Designation Level	Module Name	Module Sections	Status	Select Training
A	Class A Operator General Training	<input checked="" type="checkbox"/> Entire Module (View Content)	Completed on 11/10/2021	ReTake Training (Print Cert)
B	Class B Operator General Training	<input checked="" type="checkbox"/> Entire Module	-	<a href="#" style="background-color: #2c3e50; color: white; padding: 2px 5px; text-decoration: none;">Start Training</a>
B	Spill and Overfill Prevention	<input checked="" type="checkbox"/> Entire Module	-	<a href="#" style="background-color: #2c3e50; color: white; padding: 2px 5px; text-decoration: none;">Start Training</a>
B	Tank and Piping Release Detection	<input type="checkbox"/> Suction Piping <input type="checkbox"/> Manual Tank Gauging <input type="checkbox"/> SIR <input checked="" type="checkbox"/> Interstitial Monitoring, ATG and Pressurized Piping	-	<a href="#" style="background-color: #2c3e50; color: white; padding: 2px 5px; text-decoration: none;">Start Training</a>
B	Corrosion and Cathodic Protection	<input type="checkbox"/> Entire Module	-	<a href="#" style="background-color: #2c3e50; color: white; padding: 2px 5px; text-decoration: none;">Start Training</a>
B	Supplemental Module for New Rules	<input checked="" type="checkbox"/> Entire Module	-	<a href="#" style="background-color: #2c3e50; color: white; padding: 2px 5px; text-decoration: none;">Start Training</a>
C	Class C Operator General Training	<input checked="" type="checkbox"/> Entire Module	-	<a href="#" style="background-color: #2c3e50; color: white; padding: 2px 5px; text-decoration: none;">Start Training</a>

**State Disclaimer:**

This is a plain English interpretation of the rules, not the rules themselves. If there appears to be a conflict between Tank Helper and Tennessee UST Rules, the rules take precedence. Tank Helper is designed to explain the rules for most UST systems in Tennessee. If you have a system that is highly unique and still have questions after you have taken the training you will want to contact your local field office for further assistance. Customized compliance assistance is based upon best available state records combined with operator knowledge.

To be certified as an operator in any Class (A or B) all of the appropriate modules for that class must be completed. Tank Helper class certification does not guarantee transfer to other states. The State of Tennessee does not endorse any specific brands, manufacturers, or vendors of equipment, products or services. Any brand names mentioned or depicted of any equipment, products, or services in this presentation are used for illustrative purposes only and are neither endorsements nor recommendations for such equipment, products, or services and should not be construed as such.

Moojulii kutaa opireetaraaf agarsiistuu **Start Training** kan jedhuu cuqaasaa.

Moojuliin hunduu yeroo seensaa tokkoon xumuramuu hin qabani.

### Hubachiisa:

Leenjii Gita Bf moojuulii 4 tu jira. Waraqaa ragaa xumuruu agarsiisu fudhachuuf moojulii 4 kana xumuruun dirqama.

To'annoon Giddu galeessaa, ATG fi Ujummoon Dhiibbaa olaanaa qabu ofumaan kan filatamuu fi opireetaroota Gita B hundaaf kan barbaachisu dha.

Taankarii Opireetaroota Gita B fi Moojulii Adda Baastuu Ujummo Yaa'aa, SIR, Ujummo Xuuxxuu, fi MTG diqama qofaatti filatamuu qaba.

## LEENJII – FAKKEENYA OPIREETARA GITA A

**TN** Tennessee Tank Helper  
Underground Storage Tank Operator Training

Dashboard Add Owner Account Profile mark.braswell@tn.gov (Settings) Log Out


UST Operator Training - Information

You could skip this training by taking the Preliminary Test. We will be checking your base knowledge on **Entire Module, etc.**

**Rules:**

- You will have to score 90% to pass the Preliminary Test.
- You can attempt the preliminary test only once.
- You will have to continue training if you fail the Preliminary Test.

**Tank Helper - Module A**  
This module will guide you through information you will need to know to become a Class A Operator.



Take Preliminary Test Start Training

Moojuliin hunduu fuula baafata wal fakkaataa qaba.

## WARAQAA RAGAA – FAKKEENYA OPIREETARA GITA A

**TN** Tennessee Tank Helper Certified Operator

Presented To:  
**Your Name**  
2305 Silverdale Dr, Johnson City, TN 37659

Congratulations for completing the following Certified Operator Training Module(s):



Certified A Operator Completed on: **November 10 2021**

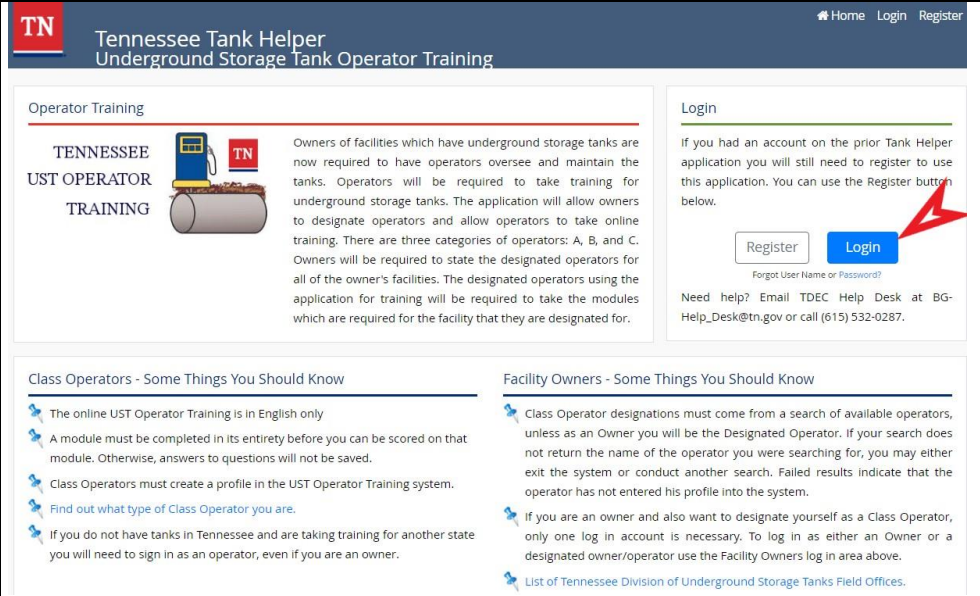
Printed Date: 11/10/2021

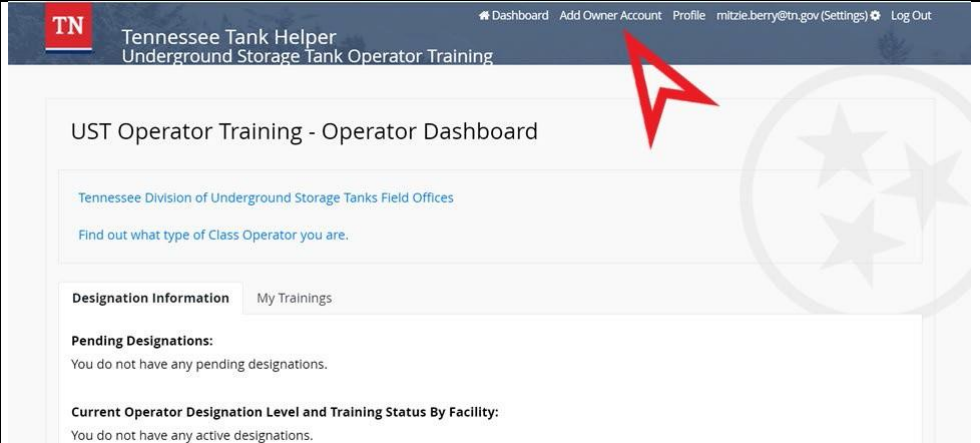
Waraqaan ragaa xumuruu agarsiisu bakka **My Trainings** jedhu jalaa yeroo moojuliin hunduu sirnaan xumuraman buufachuun (firiin qormaataa %70 fi isaa ol) maxxansuun ni danda'ama.

Yaadachiisa leenjiiin opireetaraa Gita A, B fi C waraqaa ragaa mataa isaa danda'e qaba.



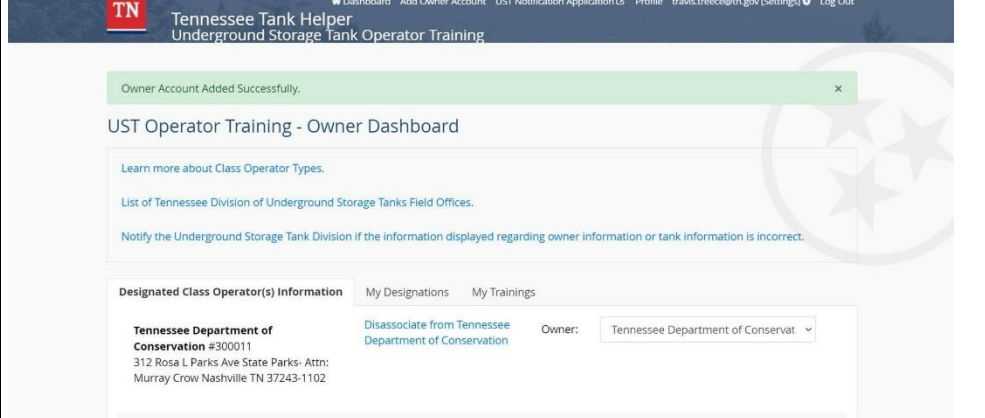
## Opireetara: Enyummeessa Abbaa qabeenyaa itti dabaluu

SEENI	
 <p><b>SEENI</b></p> <p>Tennessee Tank Helper Underground Storage Tank Operator Training</p> <p>Operator Training</p> <p><b>TENNESSEE UST OPERATOR TRAINING</b></p> <p>Owners of facilities which have underground storage tanks are now required to have operators oversee and maintain the tanks. Operators will be required to take training for underground storage tanks. The application will allow owners to designate operators and allow operators to take online training. There are three categories of operators: A, B, and C. Owners will be required to state the designated operators for all of the owner's facilities. The designated operators using the application for training will be required to take the modules which are required for the facility that they are designated for.</p> <p><b>Login</b></p> <p>If you had an account on the prior Tank Helper application you will still need to register to use this application. You can use the Register button below.</p> <p>Register Login</p> <p>Forgot User Name or Password?</p> <p>Need help? Email TDEC Help Desk at BG-Help_Desk@tn.gov or call (615) 532-0287.</p> <p><b>Class Operators - Some Things You Should Know</b></p> <ul style="list-style-type: none"> <li>The online UST Operator Training is in English only</li> <li>A module must be completed in its entirety before you can be scored on that module. Otherwise, answers to questions will not be saved.</li> <li>Class Operators must create a profile in the UST Operator Training system.</li> <li>Find out what type of Class Operator you are.</li> <li>If you do not have tanks in Tennessee and are taking training for another state you will need to sign in as an operator, even if you are an owner.</li> </ul> <p><b>Facility Owners - Some Things You Should Know</b></p> <ul style="list-style-type: none"> <li>Class Operator designations must come from a search of available operators, unless as an Owner you will be the Designated Operator. If your search does not return the name of the operator you were searching for, you may either exit the system or conduct another search. Failed results indicate that the operator has not entered his profile into the system.</li> <li>If you are an owner and also want to designate yourself as a Class Operator, only one log in account is necessary. To log in as either an Owner or a designated owner/operator use the Facility Owners log in area above.</li> <li>List of Tennessee Division of Underground Storage Tanks Field Offices.</li> </ul>	<p>Eenyummeessa Gargaaraa Taankarii keessan seenuuf marsariitii <a href="https://tdec.tn.gov/tankhelper">https://tdec.tn.gov/tankhelper</a> filachuun iimeelii fi jecha darbii keessan galchaa.</p>

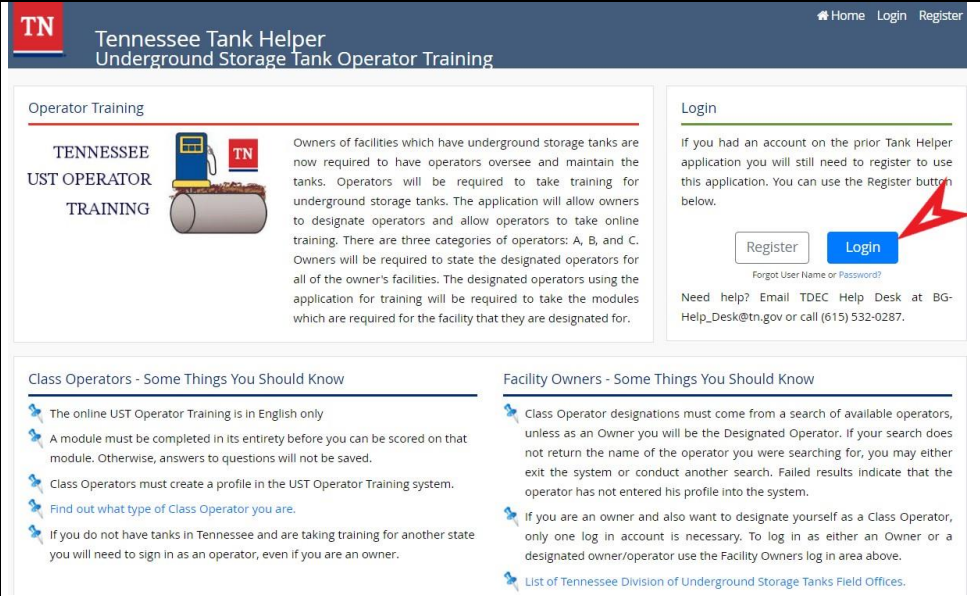
DAASHIBOORDII OPIREETARAA	
 <p><b>DAASHIBOORDII OPIREETARAA</b></p> <p>Tennessee Tank Helper Underground Storage Tank Operator Training</p> <p>Dashboard Add Owner Account Profile mitzie.berry@tn.gov (Settings) Log Out</p> <p>UST Operator Training - Operator Dashboard</p> <p>Tennessee Division of Underground Storage Tanks Field Offices</p> <p>Find out what type of Class Operator you are.</p> <p><b>Designation Information</b> My Trainings</p> <p><b>Pending Designations:</b> You do not have any pending designations.</p> <p><b>Current Operator Designation Level and Training Status By Facility:</b> You do not have any active designations.</p>	<p>Faajjii cuqullisaa fuulicha gara oliitti argamu irraa, <b>“Add Owner Account”</b> kan jedhu cuqaasaa.</p>

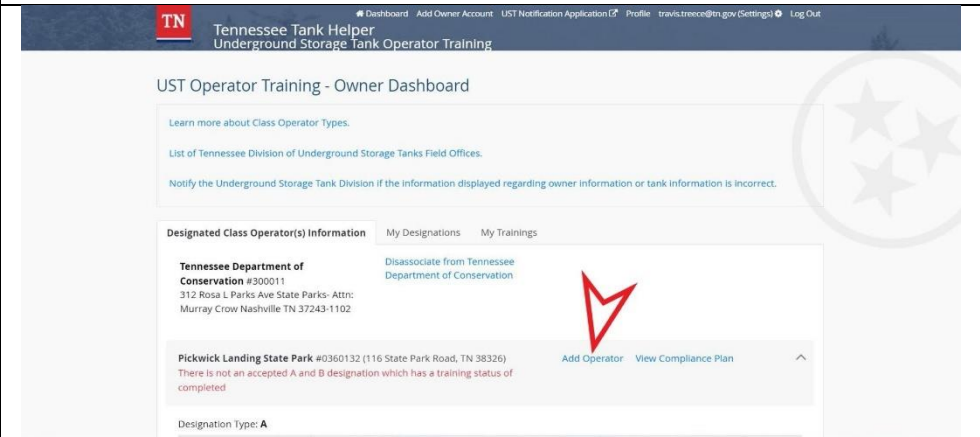
EENYUMMEESSA ABBAA QABEENYAA GALCHUU	
	<p>ID abbaa qabeenyummaakee galchi (ID mooraa keessa miti) itti aansuun <b>SUBMIT</b> kan jedhu cuqaasi.</p>

ID ABBAA QABEENYAA HAALA MILKAA'EEN HIN GALFAMNE	
	<p>Argiin kuni yeroo IDn abbaa qabeenyaa sirritti hin galfamne kan mul'atu dha.</p>

ID ABBAA QABEENYAA HAALA MILKAA'EEN GALFAMEERA	
	<p>Argiin kuni yeroo IDn abbaa qabeenyaa sirritti galfamu kan mul'atu dha.</p> <p>ID abbaa qabeenyaa adda addaa enyumeessa kanatti galfamuu danda'a.</p>

## Abbaa qabeenyaa: Opireetara mooraa keessaniif muuduu

SEENI	
 <p><b>Tennessee Tank Helper</b> Underground Storage Tank Operator Training</p> <p><b>Operator Training</b></p> <p><b>TENNESSEE UST OPERATOR TRAINING</b></p> <p>Owners of facilities which have underground storage tanks are now required to have operators oversee and maintain the tanks. Operators will be required to take training for underground storage tanks. The application will allow owners to designate operators and allow operators to take online training. There are three categories of operators: A, B, and C. Owners will be required to state the designated operators for all of the owner's facilities. The designated operators using the application for training will be required to take the modules which are required for the facility that they are designated for.</p> <p><b>Login</b></p> <p>If you had an account on the prior Tank Helper application you will still need to register to use this application. You can use the Register button below.</p> <p>Register Login</p> <p>Forgot User Name or Password?</p> <p>Need help? Email TDEC Help Desk at BG-Help_Desk@tn.gov or call (615) 532-0287.</p> <p><b>Class Operators - Some Things You Should Know</b></p> <ul style="list-style-type: none"> <li>The online UST Operator Training is in English only</li> <li>A module must be completed in its entirety before you can be scored on that module. Otherwise, answers to questions will not be saved.</li> <li>Class Operators must create a profile in the UST Operator Training system.</li> <li>Find out what type of Class Operator you are.</li> <li>If you do not have tanks in Tennessee and are taking training for another state you will need to sign in as an operator, even if you are an owner.</li> </ul> <p><b>Facility Owners - Some Things You Should Know</b></p> <ul style="list-style-type: none"> <li>Class Operator designations must come from a search of available operators, unless as an Owner you will be the Designated Operator. If your search does not return the name of the operator you were searching for, you may either exit the system or conduct another search. Failed results indicate that the operator has not entered his profile into the system.</li> <li>If you are an owner and also want to designate yourself as a Class Operator, only one log in account is necessary. To log in as either an Owner or a designated owner/operator use the Facility Owners log in area above.</li> <li>List of Tennessee Division of Underground Storage Tanks Field Offices.</li> </ul>	<p>Eenyummeessa Gargaaraa Taankarii keessan seenuuf marsariitii <a href="https://tdec.tn.gov/tankhelper">https://tdec.tn.gov/tankhelper</a> filachuun iimeelii fi jecha darbii keessan galchaa.</p>

DAASHIBOORDII ABBAA QABEENYAA	
 <p><b>Tennessee Tank Helper</b> Underground Storage Tank Operator Training</p> <p>Dashboard Add Owner Account UST Notification Application Profile travis.treace@tn.gov (Settings) Log Out</p> <p><b>UST Operator Training - Owner Dashboard</b></p> <p>Learn more about Class Operator Types.</p> <p>List of Tennessee Division of Underground Storage Tanks Field Offices.</p> <p>Notify the Underground Storage Tank Division if the information displayed regarding owner information or tank information is incorrect.</p> <p><b>Designated Class Operator(s) Information</b> My Designations My Trainings</p> <p><b>Tennessee Department of Conservation #300011</b> 312 Rosa L Parks Ave State Parks- Attn: Murray Crow Nashville TN 37243-1102</p> <p>Disassociate from Tennessee Department of Conservation</p> <p><b>Pickwick Landing State Park #0360132</b> (116 State Park Road, TN 38326) There is not an accepted A and B designation which has a training status of completed</p> <p>Add Operator View Compliance Plan</p> <p>Designation Type: A</p>	<p>Daashiboordicha irraa, mooraa barbaadamu irra kaa'uun "Add Operator" kan jedhu argii kutaa harka miraa irraa filadhaa.</p>

**ABBAA QABEENYAA AKKA OPIREETARA A / B TTI ITTI DABALAA**

Tennessee Tank Helper  
Underground Storage Tank Operator Training

Search & Add an Operator

+ Add Myself as an Operator

Operator First Name:  Operator Last Name:

Company Name:  Search

Abbaa qabeenyaa yookaan bakka bu'aa abbaa qabeenyaa akkaataa Opireetara Gita A / B tti muuduuf **"Add Myself as an Operator"** kan jedhu filadhaa

**GAHEE OPIREETARAA FI MALA LEENJII**

Tennessee Tank Helper  
UST Operator Training - Operator Management

To Designate Operator for Facility:

1. Select the Operator Type Under Facility Section
2. Choose the Training Method for this operator
3. Submit

The Operator will be Notified of this facility and class Operator type Designation.

Operator Info: John Smith, 4500 Granite Dr, Nashville, TN 37214

Choose Operator Types:

Facility Id & Address	A Operator <input type="checkbox"/> Check All Sites that Apply	B Operator <input type="checkbox"/> Check All Sites that Apply
#0360132, Pickwick Landing State Park, 116 State Park Road, TN, 38326	<input type="checkbox"/>	<input type="checkbox"/>
#0220143, Montgomery Bell State Park Maintenance Facility, 1020 Jackson Hill Rd, TN, 37029-5040	<input type="checkbox"/>	<input type="checkbox"/>
#0400150, Paris Landing State Park Marina, 16055 Highway 79 N, TN, 38222-4109	<input type="checkbox"/>	<input type="checkbox"/>

Training Method :

Tennessee Tank Helper (Online Training)

ICC (Specialized Paid Training)

Tank School (Verification Required by Division)

Cancel Submit

Mooraa filachuuun saanduqa filannoo Gita opireetaraa A / B mallatteessaa.

Mala leenjii opireetaraa tarreeffama mooraa harka bitaa gara gadiitti argamu filadhaa.

**SUBMIT** kan jedhu filadhaa.

### KANNEEN BIROO AKKA OPIREETARA A / B TTI ITTI DABALAA

Tennessee Tank Helper  
Underground Storage Tank Operator Training

Search & Add an Operator

Operator First Name:  Operator Last Name:

Company Name:

Search

Yoo abbaan qabeenyaa yookaan bakka bu'aan abbaa qabeenyaa opireetara miti ta'e, mala itti barbaadan fayyadamuun wanta feetan argadhaa.

### KANNEEN BIROO AKKA OPIREETARA A / B TTI ITTI DABALAA (Itti fufa)

Tennessee Tank Helper  
Underground Storage Tank Operator Training

Search & Add an Operator

Operator First Name:  Operator Last Name:

Company Name:

Search

You searched for :

Name	Company	Address	Phone	
Berry, Mitzie	TDEC DUST JCEFO	2305 Silverdale Dr, TN 37601	(423) 854-5400	Select

Filachuun dura odeeffannoon opireetarootaa hunduu sirrii ta'uu isaa mirkaneefadha.

### FILANNOO GAHEE OPIREETARA A / B

Tennessee Tank Helper  
Underground Storage Tank Operator Training

UST Operator Training - Operator Management

To Designate Operator for Facility:

- Select the Operator Type Under Facility Section
- Choose the Training Method for this operator
- Submit

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Operator Info: Mitzie Berry, 2305 Silverdale Dr, TN, 37601

Choose Operator Types:

Facility Id & Address	A Operator <input type="checkbox"/> Check All Sites that Apply	B Operator <input type="checkbox"/> Check All Sites that Apply
#0360132, Pickwick Landing State Park, 116 State Park Road, TN, 38326	<input type="checkbox"/>	<input type="checkbox"/>
#0220143, Montgomery Bell State Park Maintenance Facility, 1020 Jackson Hill Rd, TN, 37029-5040	<input type="checkbox"/>	<input type="checkbox"/>
#0400150, Paris Landing State Park Marina, 16055 Highway 79 N, TN, 38222-4109	<input type="checkbox"/>	<input type="checkbox"/>

Cancel Submit

Mooraa walgitudhaaf gahee opireteraa A / B filadhaa.  
**SUBMIT** kan jedhu filadhaa.



**Opireetara: Muudama Maqaa Abbaa Qabeenyaa Irraa Fudhadhaa**

**SEENI**

**Tennessee Tank Helper**  
Underground Storage Tank Operator Training

[Home](#) [Login](#) [Register](#)

**Operator Training**

**TENNESSEE  
UST OPERATOR  
TRAINING**

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Eenyummeessa Gargaaraa Taankarii keessan seenuuf marsariitii <https://tdec.tn.gov/tankhelper> filachuun iimeelii fi jecha darbi keessan galchaa.

**DAASHIBOORDII – MUUDAMA FUDHACHUU YKN KAN EEGAMAN DIDUU**

**Tennessee Tank Helper**  
Underground Storage Tank Operator Training

[Dashboard](#) [Add Owner Account](#) [UST Notification Application](#) [Profile](#) [travis.treece@tn.gov \(Settings\)](#) [Log Out](#)

**UST Operator Training - Owner Dashboard**

[Learn more about Class Operator Types.](#)

[List of Tennessee Division of Underground Storage Tanks Field Offices.](#)

[Notify the Underground Storage Tank Division if the information displayed regarding owner information or tank information is incorrect.](#)

Designated Class Operator(s) Information
**My Designations**
My Trainings

**Pending Designations:**

Facility Name	Facility Address	Facility ID	Owner Name	Owner Id	Designation Type	
Montgomery Bell State Park Maintenance Facility	1020 Jackson Hill Rd	#0220143	Tennessee Department of Conservation	300011	A	<input type="button" value="Accept"/> <input type="button" value="Reject"/>
Montgomery Bell State Park Maintenance Facility	1020 Jackson Hill Rd	#0220143	Tennessee Department of Conservation	300011	B	<input type="button" value="Accept"/> <input type="button" value="Reject"/>

Daashiboordii irraa **"My Designations"** kan jedhu filadhaa. Muudama Opireetara A / B agarsiifamu Fudhachuu ykn Diduu.



## DAASHIBOORDII – MUUDAMA KAN EEGAMU FUDHACHUU FI MALA LEENJII

Tennessee Tank Helper (Online Training)  
 ICC (Specialized Paid Training)  
 Tank School (Verification Required by Division)

Comments:

Facility Name	Facility Address	Facility ID	Owner Name	Owner Id	Designation Type	
Montgomery Bell State Park Maintenance Facility	1020 Jackson Hill Rd	#0220143	Tennessee Department of Conservation	300011	A	<input checked="" type="radio"/> Accept <input type="radio"/> Reject
Montgomery Bell State Park Maintenance Facility	1020 Jackson Hill Rd	#0220143	Tennessee Department of Conservation	300011	B	<input checked="" type="radio"/> Accept <input type="radio"/> Reject

Current Operator Designation Level and Training Status By Facility:

Yoo muudami kan fudhatamu ta'e, agarsiisi kuni kan dhufu ta'a.

Mala Leenjii Filachuu. Yaada kennuun dirqama miti.

**SUBMIT** kan jedhu cuqaasaa

## DAASHIBOORDII – MUUDAMA KAN EEGAMU DIDUU FI MALA LEENJII

Comments:

Facility Name	Facility Address	Facility ID	Owner Name	Owner Id	Designation Type	
Montgomery Bell State Park Maintenance Facility	1020 Jackson Hill Rd	#0220143	Tennessee Department of Conservation	300011	A	<input checked="" type="radio"/> Accept <input type="radio"/> Reject
Montgomery Bell State Park Maintenance Facility	1020 Jackson Hill Rd	#0220143	Tennessee Department of Conservation	300011	B	<input checked="" type="radio"/> Accept <input type="radio"/> Reject

Current Operator Designation Level and Training Status By Facility:

Yoo muudami kan didamu ta'e, agarsiisi kuni kan dhufu ta'a. Yaada kennuun dirqama miti.

**SUBMIT** kan jedhu cuqaasaa

## Boqonnaa 4 Qorannoo Yaa'aa Taankariiwwanii fi Ujummoo Adda Baasuu

Kuusaawwanii fi ujummoon qajeelfama qaban hundinuu dhangala'aan dafee akka argamuuf yaa'aa adda baasuu (dhangala'aa adda baasuu jedhama) qabaachuu qabu. Malli yaa'aa adda baasuu, ykn malawwan walitti makaman, ulaagaalee armaan gadii guutuu qaba:

- Kutaa kuusaa ykn ujummoo isaa kan yeroo hunda boba'aa of keessaa qabu kamiyyuu irraa dhangala'aa jiru adda baasuu;
- Akkaataa qajeelfama oomishtootaatiin kan dhaabamee fi kan safaramu yoo ta'u, akkaataa armaan gadii keessaa tokkoon kan hojjetamuu fi kan kunuunfamuudha:
  - Qajeelfamoota oomishtootaa,
  - Dambii hojii beekamtii qabuu fi
  - Ulaagaalee Diviizhiniin raggaasifaman;
- Waggaa waggaan qaamoleen elektiroonikii fi makaanikaalaa sirnaan hojjechuuf akka qorataman mirkaneeffadhaa;
- Mala yaa'aa taankarii fi ujummoo adda baasuuf ulaagaalee raawwii hojii ni guuta; fi
- Madaallii qaama sadaffaa Garee Hojii Biyyaalessaa Madaallii Dhangala'aa Adda Baasuu (NWGLDE) tiin ilaalame kan qabu yoo ta'u, tarreen meeshaalee ykn mala dhangala'aa adda baasuu tarree NWGLDEen eegamu irratti ni mul'ata. Marsariitiin NWGLDE's <http://nwgld.org/> irratti argama

Malli yaa'aa adda baasuu hundi ulaagaalee galmeessuun kaa'uu qabachuu qabu. Tokkoon tokkoon malaaf ulaagaaleen barbaachisan armaan gaditti bal'inaan ibsamaniiru.

**Akka tolfamaatti gadhiifamuu bu'a qabeessa ta'een adda baasuuf meeshaaleen yaa'aa adda baasuu hojii irraa oolchuu ykn jijjiiramuu hin qaban.** T.C.A § 68-215-120(b) akkas jedha, "Namni kamiyyuu osoo beekke meeshaa yaa'aa adda baasuu ykn ittisuu kuusaa lafa jalaa wajjin walqabatee jiru kan jijjiire ykn hojii dhabe, ykn osoo beekke boba'aan gara naannootti akka gadi lakkifamu kan taasise ykn kan hayyame yoo ta'e, kunis seera cabsuun boqonnaan kun, dambii, dambii yookiin ajaja komishinara yookiin boordii yakka cimaa sadarkaa E raawwata; haa ta'u malee, gadhiifamuun akkasii nama biraa kamiinuu ykn fandicha irraa baasii qulqulleessuuf kan fide yoo ta'e, yakkichi baasii akkasii kanaaf haala hannaatiin sadarkaa § 39-14-105(a)(2)-(5)."

### Yaa'aa Taankariiwwanii Adda baasuu

Taankariidhaaf maloonni ji'a ji'aan yaa'aa adda baasuu kanneen armaan gadiif ni hayyamamu:

- To'annoo Giddu galeessaa (**IM**) - Gaafa adoolessa 24, 2007 ykn isa booda taankariiwwan fe'aman hundaaf to'annoo gidduudhaan hojii irra ooluu qaba
- Safartuu Taankarii Awutoomaatikaalaa (**ATG**)
- Istaatistikaal Inventerii Riikoonsileeshinii (**SIR**)
- Safartuu Taankarii Maanuwaalii fi Qorannoo Dhimmisuu Taankarii (**MTG**)

Kutaan kun malawwan yaa'aa adda baasuu armaan olitti ibsaman tokkoon tokkoon isaaniif boqonnaawwan teeknikaa bal'aa barreessee jira. Galmeewwan kunneen <https://www.tn.gov/environment/program-areas/ust-underground-storage-tanks/compliance-inspections/standardized-inspection-process.html> irraa ilaaluu dandeessu.

## Safartuu Taankarii Awutoomaatikaalaa (ATG)

Siistamni ATG odeeffannoowwan kan akka sadarkaa oomishaa fi dhibbantaa ho'insa qaamaa jiran haala dhaabbataa ta'een kan funaanuu fi sakatta'u of keessatti dhibbantaa akkasumas koosuliin mooricha keessa jiru bahuu isaa oomisha hammentaa oomishaamaa jiru agarsiisu irratti jijjiirama jiru ni shallaga. Koonsulichi dirqama yeroo rakkoon akka jiru shakkame dammaqsuu qaba. ATGn sa'aatii tokkotti yaa'aa gaalonii 0.2 (gph) adda baasuu danda'uu qaba. Armaan gaditti ulaagaalee waliigalaa ATG'f barbaachisan gabaabinaan isiniif dhiyaateera. Ibsi ulaagaa bal'inaani yoo barbaaddaniif Maanuwaalii Sakatta'iinsa Diviizhini Sadarkaa isaa eeggate, Kutaa Teknikaalaa 3.2 Safartuu Taankarii Awutomaatikaalaa irratti argama.

### ATG kee hojjechiisuu:

- QORANNOO HIN JIJJIIRAMNE
  - ATGn tokko tokko yoo xiqqaate guyyoota 30 keessatti ofumaan qorannoo yaa'aa hin jijjiiramne akka gaggeessaniif saganteeffama. Yoo ATG keessan ofumaan hin qoratamne, qorannoo yaa'aa hin jijjiiramnee harkaan gaggeessuu qabduu
  - Sirna UST kuusaa manifolded ta'eef qorannoon istaatiksii fayyadamuun hin danda'amu
- QORANNOO WALITTI FUFEE
  - ATGn tokko tokko sooftiweerii kompiitaraa keessoo kan kuusaawwan yeroo qorannoon dhangala'aa raawwatamu sochiirra akka jiraatan taasisu qabu. Malleen kunniin Istatistiksii Yaa'a Walitti Fufaa Adda Baasuu (CSLD) ykn Sirna Yaa'a Kuusaa Keessaa Itti Fufiinsa Qabu Adda Baasu (CITLDS) jedhamuun kan beekaman yoo ta'u kunis bakka baay'ina bu'aa guddaa ta'etti fayyadamuuf mijataadha
- ATGn hundi qorannoo sirrii ta'e gaggeessuuf oomisha xiqqaa murtaa'e kuusaa keessa jiru barbaadu
- Galmee yaa'a adda baasuu kuusuuf mimoorii sooftiweeri kompiitaraa ATG irratti hirkachuun gocha gorfamaa **miti** sababiin isaas humni olka'iinsa ykn balaqqeessaan galmelee elektirooniksii keessan hunda akka dhabdan isin gochuu danda'a
- Dammaqsituu hundaaf xiyyeeffannoo kennuu fi deebii sirrii kennuu
- Wabii fi rakkoo furuuf qajeelfama fayyadamaa ATG kee harka kee keessa kaa'i

### Ulaagaalee:

- Qormaanni dhangala'aa ofumaan yoo hin raawwatamin **yoo xiqqaate ji'atti al tokko tokkoon tokkoon kuusaadhaaf** qorannoo dhangala'aa istaatiksii gaggeessuu
- Waggaa waggaa qormaata hojimaata ATG raawwachuu
- Suphaa idilee oomishoota ATGn barbaadamu raawwachuu

### Galmelee Kaa'uu fi Gabaasuu:

- Yoo xiqqaate bu'aa qorannoo dhangala'aa ji'a ji'aan darbu **tokko** tokkoon taankii ATG irraa maxxansuu, ilaaluu fi qabachuu
- Bu'aa ittisa yaa'aa Unka Sakatta'iinsa Mooraa Keessa Ji'aan/Waggaa deemamu (CN-2544) irratti galmeessaa
- Bu'aa ittisa yaa'aa yoo xinnaatee kan ji'oottan walitti aanan 12 tursiisaa fi sakatta'iinsaaf akka isaan argaman godhaa
- Qorannoowwan hojii ATG waggaa 3n darbanii tursiisaa
- Yoo barbaachisaa ta'e, akkaataa Kutaa Gabaasa keessatti ibsametti sa'aatii 72- keessatti

gadhiifamuu shakkame gabaasuu

### Istaatistikaal Inventerii Riikoonsileeshinii (SIR)

Malli SIR kuusaa fi ujummoo irratti fayyadamuun ni danda'ama. SIR sagantaa sooftiweerii kompiitaraa fayyadamuun guyyoota 30tti xiinxala istaatiksii inventarii, geejjibaa fi kennuu daataa raawwata. Daataan kun yoo xiqqaate guyyoota 30tti al tokko gurguraa SIR (ykn sagantaa kompiitaraa gurgurata SIR abbaa qabeenyaa taankiidhaaf kireeffame keessatti galfama) ergama. Daataan erga xiinxalamee booda, gurgurtaan SIR yeroo gabaasni keessatti bu'aa xiinxala sanaa dhiyeessu qaba. Daataa inventarii walitti qabuuf ulee safartuu ykn ATG fayyadama. SIR abbaan qabeenyaa taankii hojimaata odeeffannoo walitti qabuu addaa (safartuu boba'aa inchii 1/8<sup>ffaa</sup> guyyaa guyyaan, dubbisa bishaanii ji'a ji'aan, safartuu meetira raabsituu waggaa, karaa tuuboo kufaatii fi kkf) akka hordofu gaafata. Malli SIR Garee Hojii Biyyaalessaa Madaallii Dhangala'aa Adda baasuu ([www.nwglde.org](http://www.nwglde.org)) tiin ulaagaa raawwii hojii akka guututti tarreeffamuu qaba. Ibsi bal'aan ulaagaalee barbaachisan Maanu'alii Inspeekshinii Istaandardii Kutaa, Boqonnaa Teeknikaa 3.3 Araarsa Inventarii Istaatistiksii keessatti argama.

Yoo SIR hordoffii ji'a ji'aan tuuboo dhiibbaa qabu irratti fayyadamaa jiraate, meeshaan dhangala'aa sarara ofumaan adda baasu (makaanikaal fi elektirooniksii) waggaa waggaan qoratamuu qaba.

Bu'aan SIR ji'aa akka **darbe, kufe, ykn xumura hin qabneetti** gabaafama.

#### Darbe

Bu'aan SIR darbuu jechuun xiinxalli istaatiksii daataa daangaa mala hayyamame keessa jira jechuudha.

#### Kufe

Bu'aan SIR kufe jechuun xiinxalli istaatiksii daataa daangaa mala sanaa hayyamame caalu jechuudha. Bu'aan kufe gadhiifamuu shakkamee waan ta'eef sa'aatii 72 keessatti Divishinichaaf gabaafamuu qaba.

#### Murteessuun hin danda'amne

Bu'aan xumura hin qabne jechuun qulqullinni daataa bu'aa darbiinsa ykn kufaatii kennuudhaaf gahaa miti jechuudha. Rakkoon kun safartuu gaarii hin taane, meetira sirnaan hin safaramne, geejjibni darbe ykn waan biraa ta'uu danda'a. Bu'aan ji'a ji'aan murteessaa hin taane yoo argame hatattamaan qorattee rakkoo jiru sirreessuu qabda. Gargaarsa argachuuf gurguraa SIR qunnamaa. Bu'aa qorannoo keessanii galmeessuun galmee dhangala'aa adda baasuu waliin qabadhaa.

Ji'oota lama walitti aansuun bu'aa murteessaa hin taane yoo argatte, gadhiifamuu shakkamee waan ta'eef sa'aatii 72 keessatti Kutaatti gabaafamuu qaba.

#### Ulaagaalee:

- Galmee ji'a ji'aan dhangala'aa adda baasuu xiinxaluuf dhiyeessaa SIR waliin waliigaltee ykn sagantaa SIR kan kompiitara keessan irratti hojjetamee xiinxala SIR gaggeessuu danda'u.
- Daataa inventarii oomishaa (ulee safartuu, ykn ATG) guyyaa guyyaan walitti qabuu.
- Chaartii kuusaa sirrii fayyadamuun safartuu sadarkaa boba'aa gara gaalonitti jijjiiri.
- Ulaagaalee walitti qabuu daataa to'annoo inventarii fayyadamuun guyyoota 30tti daataa inventarii gahaa walitti qabuu fi galmeessuu [seera 0400-18-01-.04(3)(e)1 fi .04(4)(d)1. ilaali.].
- Galmeen guyyoota 30tti al tokko yookaan dhiyeessaa SIR yookaan sagantaa kompiitaraa abbaa qabeenyaa taankii gurguraa SIR irraa kireeffameen akka xiinxalamu taasisi. Gabaasni ji'a ji'aan, erga odeeffannoo yeroo sanaaf walitti qabame xumuramee booda ni maddisiifama.
- Bu'aa murteessaa hin taane kamiyyuu qorachuu, sababoota murteessuu fi sababoota

sirreessuu.

- Yoo daataa inventarii walitti qabuuf ATG fayyadamaa jirta ta'e, waggaa waggaa qorannoo hojii ATG gaggeessi.
- Yoo ATG fayyadamaa jirta ta'e, suphaa idilee oomishtonni ATG barbaadan raawwadhu.
- Yoo ujummoo dhiibbaa qabu qabaatte, waggaa waggaa hojii danda'uu meeshaa makaanikaa ykn elektirooniksii sarara dhangala'aa adda baasuu qoradhu.

#### **Galmee Kaa'uu fi Gabaasuu:**

- Bu'aa SIR ji'a ji'aan fi sakatta'iinsa meeshaalee harkaan qabaman (ulee safartuu) waggaa Unka Inspeekshinii Deemsa Dhaabbataa Ji'aa/Waggaa (CN-2544) irratti galmeessi.
- Galmee SIR armaan gadii eeguu:
  - Gabaasa/bu'aa qorannoo SIR Ji'aanii.
  - Daataan inventarii hundi (geejjibaa fi gurgurtaa oomishaa, galmee safartuu raabsituu, safartuu boba'aa inchii 1/8<sup>ffaa</sup> guyyaa guyyaani, dubbisa bishaanii ji'a ji'aan, safartuu meetira raabsituu waggaa fi kkf) eegamuu fi yeroo sakatta'amu argamuu qaba.
- Bu'aawwan qorannoo sakatta'ina yaa'aa ji'oottan walitti aanan 12 tursiisaa.
- Ujummoolee dhiibbaa olaanaa qabaniif, qorannoo yaa'aa sarara waggaa adda baasuu, waggaa 3f tursiisuu.
- Waanta shakkitan sa'aatii 72 keessatti gabaasaa (kufaatii kamiyyuu yookiin qabxiiwwan lamaan walitti aanan dhuma hin qabne kamillee taanaan).
- Yoo barbaachisaa ta'e, qormaata hojii waggaa ATG waggoota 3n dhuma tursiisuu.

## Hordoffii Giddu galeessaa Qabiyyee Lammaffaa Fayyadamuun

Hordoffiin gidduu galeessaa (IM) mala yaa'aa dhangala'aa bakka dallaa taankarii ykn dallaa ujummoo gidduu jiru adda baasuu yoo ta'u, ykn ujummoo dallaa tokkoo fi danqaa naannoo irraa adda isa godhu gidduutti (kan akka ujummoo harkiftuu ykn dhiibduu) adda baasuudha. Ibsi ulaagaa bal'inaani yoo barbaaddaniif Maanuwaalii Sakatta'iinsa Diviizhiniin Sadarkaa isaa eeggate, Kutaa Tekinikaalaa 3.4 Qabiyyee Lammaffaa fi Hordoffii Giddu galeessaa irratti argama.

Danqaan gara alaa “qabiyyee lammaffaa” jedhamuun beekama. Bakki duwwaa danqaawwan gidduu jiru walirraa fageenya qaama lamaanii bakka duwwaa yookiin walirraa fageenya qaama lamaanii jedhamuun beekama, akkasumas taankariiwwanii fi ujummoowwan bakka kanaaf hordoffiin walitti fufiinsaa ni barbaachisa. Meeshaa elektirooniksii ykn kan biroo walitti fufiinsa qabu kan hordoffii ujummoo dhiibbaa sadarkaa lammaffaa qabate qabaachuu qabdu. Argannoon ijaan ilaaluu godhamu akkaataa hordoffii walitti fufiinsaatti hin ilaalamu.

Malli kun dirqama gadhiisii walakkaa dallaa taankarii yookiin ujummoo hubachuu danda'uu qaba. Gosoota hordoffii gidduugaleessaa sadii yeroo baay'ee fayyadamnu:

- Maloota Haayidiroostatiki - bakka sadarkaan dhangala'aa itti hordofamu kuufama waliin iddoo dhangala'aan itti guutame fayyadama.
- Mala dhiibbaa/Vaakiyuumii - dhiibbaa yookin vaakiyuumii bakka qaawwaa fayyadamaa akkasumas jijjiirrama dhiibbaa yookin vaakiyuumii kan to'atame dha.
- Seensarii elektiroonikii - seensaroonni qaawwa keessa kaa'amuun yeroo yaa'aan argamu damaqsuuf gargaara.

Seensariin elektiroonikii yeroo baay'ee kan itti fayyadamnuu fi hordoffii giddu galeessaa taasisuuf qaalii kan hin taane dha. Taankariidhaaf, akkuma mala haayidirostaatiki irratti ta'u, dhangala'aan jiraachuu isaa ykn dhangala'aan ol ka'uu/gadi bu'uu argachuu isaa sakatta'uuf dallaa taankarii gidduutti sensariin ni kaa'ama. Ujummoohaaf, sensariin bakka dhangala'aan yaa'aa irraa dhufu baay'ee itti kuufamuu danda'utti kaa'ama. Akkaataa idileetti, bakki kun saampii gubbaa taankarii keessa jiru, saampii ce'umsa ujummoo keessa, fi saampii raabsituu jala jiru keessa jira. Qaawwan ujummoo banamuun dhangala'aan qaawwaa ujummoo keessaa gara seensarii dhangala'aa saampii hundaa keessatti akka yaa'u taasisa. Guutummaa fiigicha ujummoo dhangala'aa hordofuuf saampii gubbaa taankarii keessaa sensara tokkoo fayyadamuun fudhatama hin qabu.

### Meeshaalee Hojii IM:

- Seensariin saampii yeroo dhangala'aan saampii keessatti argame sagalee madaksituu kan dhageessisu ta'a.
- Seensaricha akka hin hojjenne gochuun yookin tuxuquun yakka dha.
- Seensarichi salphaatti dhangala'aa akka adda baasuu hin dandeenyeef bakka isa'atii basanii sochoosuun sarbama dha.
- Seensaroonni seeraan hojjechuu dhiisuu danda'u, kanaafuu dalagaa isa sirrii mirkaneeffachuudhaaf sakatta'insa seensarootaa waggaa waggadhaan gaggeessuu qabdu.
- Seensarii tokko dallaa taankarii bishaan ykn boba'aa dallaa lamaa gidduutti yoo argate, yaa'aa shakkame waan ta'eef sa'atii 72 keessatti Diviizhiniitti gabaafamuu qaba.
- Bishaan dallaa alaa taankarii dallaa lamaa keessa seenuu yoo danda'e, taankarichi kana booda ittisa lammaffaa hin qabaatu. Haalli kuni qoratamuu qaba.
- Yoo sirna dhiibbaa/vaakiyuumii dhangala'aan guutame ykn cufame fayyadamtan, sirnichii haaldureewwan sirrii ta'an keessatti hojjechaa jiraachuu isaa murteessuuf qajeelfama fayyadamaa ilaaluu qabdu.

**Ulaagaalee:**

- Waggaa waggaan qormaata hojimaata ATG raawwachuu.
- Suphaa idilee oomishoota ATGn barbaadamu raawwachuu.
- Yoo guyyoota dhumaa 30 keessatti yaa'aan argameera ta'eef sirna yaa'aa adda baasu to'achuu.
- Dalagaan isaanii sirrii akka ta'e mirkaneessuuf, meeshaaleen hordoffii gidduugaleessaa hundi (konsoolii ATG, sensaroota, fi adda baasuun sarara dhangala'aa) waggaa waggaan qoratamuu qabu.
- Qorannoo qulqullina saampii waggaa 3n raawwachuu.

**Galmees Kaa'uu fi Gabaasuu:**

- Meeshaan hordoffii gidduu galeessaa yoo galmees elektirooniksii kan ji'aa hin oomishine ta'e, ulaagaalee galmees qabachuu guutuuf galmees waraqaa uumuu qabda.
- Bu'aa ittisa yaa'aa Unka Sakatta'iinsa Mooraa Keessa Ji'aan/Waggaan deemamu (CN-2544) irratti galmeessaa. Gabaasni haala sensarii fi gabaasni seenaa dammaksituu ji'a ji'aan qabamuu qaba.
- Galmeewwan yaa'aa adda baafamee ji'oottan walitti aanan 12f tursiisaa.
- Qormaata qulqullina saampii waggaa 3 isa dhiyoo ta'ee tursiisaa.
- Waggoota 3n dhumaa waggaa waggaadhaan tursiisaa
  - Qormaata hojimaata ATG.
  - Qormaata dalagaa seensarii
  - Qormaata adda baastuu saa'aa Sarara
- Yaa'aawwan shakkaman hundumaa sa'aatiiwwan 72 keessatti gabaasaa.



### **Safartuu Taankarii Maanuwaalii (MTG)**

Safartuun Taankarii Maanuwaalii (MTG) mala hordoffii ji'aa seera qabeessa ta'eedha; haa ta'u malee, yeroo baay'ee itti hin fayyadamne. MTGn taankarii qabiyyee gaalonii 1,000 fi isaa gadi ta'aniif fayyadamna. Taankariin keessan mala kanaaf kan male ta'uu isaa adda baasuuf maaloo Qajeelfama Sakatta'iinsaa Sadarkaa Isaa Eggatee, Boqonnaa Tekinikaalaa 3.1 Qajeelfama Safartuu Taankarii ilaalaa ykn Diviizhinicha quunnamaa.

MTG akka mala of danda'ee dhaabbatuutti fayyadamuuf:

- Taankaroonni dandeettii baay'ee murtaa'oo ta'anii fi ulaagaa di'aameetirii guutuu qabu (chaartii Boqonnaa Tekinikaalaa 3.1 ilaalaa);
- Sadarkaan dhangala'aa taankarii keessa jiru hanga inchii 1/8<sup>ffaa</sup> dhiyootti safaramuu qaba (yeroo baay'ee ulee safartuutiin safarama);
- Dubbisa sadarkaa dhangala'aa walitti qabamuuf taankaroonni torban gidduutti yeroo murtaa'eef hojii ala ta'uu qabu; fi
- Dubbifamni sadarkaa dhangala'aa istaandaardii torbanii fi ji'aa wajjin wal bira qabamee ilaalamuun taankarichi dhiphaa ta'uu isaa murteessu.

### **MTG fi Qorannoo Dhimmisuu Taankarii**

Taankaroonni gaalonii 1,001 hanga gaalonii 2,000 ta'an MTG malee Qormaata Dhimmisuu Taankarii fayyadamuu qabu. Taankaroonni gaalini 2,000 olii MTG fayyadamuu dhiisuu danda'u.

### **Galmees Kaa'uu fi Gabaasuu:**

- Bu'aa ittisa yaa'aa Unka Sakatta'iinsa Mooraa Keessa Ji'aan/Waggaan deemamu (CN-2544) irratti galmeessaa.
- Bu'aa ittisa yaa'aa yoo xinnaateef kan ji'oottan walitti aanan 12 tursiisaa fi sakatta'iinsaaf akka argaman taasisaa: fi
- Yaa'aawwan shakkaman hundumaa sa'aatiiwwan 72 keessatti gabaasaa.

## Yaa'aa Ujummoo Adda baasuu

Gosooti sirna ujummoo lamaan:

- Dhiibbaa guddaa kan qabu
- Xuuxiinsa

Ulaagaaleen yaa'iinsa adda baasan ujummoolee dhiibbaa guddaa qabaniif fi ujummoolee xuuxaniif garaa gara dha. Kanneen armaan gadii ulaagaa sirnoota lamaani kan ibsan dha.

## Ujummoo Dhiibbaan Hojjetu

Ujummoowwan bishaanii dhiibbaan irratti taasifame dirqama sakatta'insa yaasaa dhangala'aa gosa lama qabaachuu qabu:

1. Kaatastiroopiki - gadhiisiwwan gurguddoo kanneen akka badii ujummoo adda baasuudhaaf. Sarari kaatastiroopiki yaa'aa adda baasu Adda Baastuu Yaa'aa Sarara Awutomaatika (LLDs ykn ALLDs) tiin raawwatama. ALLDn kan makaanikaalaa yookaan elektiroonikii ta'uu danda'a. Sagaleen gadhiifamuu guddaa ta'uu waan danda'uuf (sa'aatii tokkotti gaalonii 3 oli) dammaksituu sarara dhangala'aa adda baasuu (elektiroonikii) ykn haala yaa'a suuta jedhu (makaanikaalaa) saffisaan deebii kennuun barbaachisaa dha. Adda baastuun yaa'aa sarara makaanikaalaa fi elektiroonikii waggaa waggaa qoratamuu qaba.
2. Yeroon - gadhiisiwwan xixiqqoo fi hin mul'atne sakatta'uudhaaf. Adda baastuun yaa'aa sarara yeroo ji'aan yookaan waggaa taasifamuu qaba. Filannoo sadiitu jira:
  - a. To'annoo Ji'a ji'aanii\*, ykn
  - b. Qorannoo Dhimmisuu Sararaa Waggaa, yookiin
  - c. Adda baastuu Yaa'aa Sararaa Elektiroonikii (ji'atti 0.2 gph ykn waggaaatti 0.1 gph gaggeessuu).

\*To'annoo ujummoo ji'aan tasifamuuf, maloota lamaan Kutaa boqonnaa Adda baasaa yaa'aa Taankarii keessatti ibsame fayyadamuu qabdu:

- To'annoo Giddu galeessaa (ujummoo haaraa fi bakka bu'amuuf barbaachisa), ykn
- SIR.

Qorannoon walitti siqeenya sararaa qorataa gahumsa qabu (oomishtootaan kan mirkanaa'e) qoratamuu qaba. Qorannoon walitti siqeenya sararaa saffisa yaa'aa dhangala'aa sa'aatii tokkotti gaalonii 0.1 dhiibbaa hojii ujummoo dachaa 1.5n adda baasuu danda'uu qaba ykn qorannoo waggaa waggaa 0.1 gph meeshaa dhangala'aa sararaa elektirooniksii fayyadamuun gaggeessuu qaba.

Odeeffannoo dabalataaf maaloo Maanuwaalii Sakatta'iinsa Diviizhinii Sadarkaa Isaa Eeggatee, Boqonnaa Tekinikaalaa 3.5 Ujummoo Dhiibbaa Olaanaa ilaalaa.

### **Ujummoo Xuuxuun Hojjetu**

Ujummoon xuuxuu taankarii keessaa paampii xuuxuu raabsituu keessaa fayyadamuun oomisha dhiiba. Argamuun ujummoo xuuxuu paampii xuuxuun ibsamee (puulii fi beeltii) raabsituu keessatti argama. Dabalataan, taankarii keessa paampiin bishaan keessa lixu hin jiru.

Yaa'aa adda baasuun ujummoo harkiftuu kan haalota LAMAAN armaan gadii guutaniif HIN barbaachisu:

1. Diriisi sarara ujummoo asii gadee waan ta'eef oomishichi yoo badee deebi'ee gara taankarichaatti gala;
2. Paampii harkiftuu raabsituu(diispeensaraa) gadi jiru biratti vaalvii sakatta'insaa tokko qofaatu jira (gubbaa taankarichaa irra miti).

Ujummoon ulaagaa LAMAAN isaa guutu "xuuxuu nageenyi isaa eegame" ykn "Xuuxuu Iyiroopiyaanii" jedhama.

Yoo "xuuxuu nageenyi isaa eegame" kan hin qabne ta'e fi gosa "xuuxuu U.S" jedhamu kan qabdan yoo ta'e adda baasa yaa'aa ujummoo xuuxuu geggeessuu qabdu. Kunis kan inni of keessatti qabatu:

- Waggaa sadiin qorannoo walitti siqeenya sararaa, ykn
- To'annoo Ji'aanii To'annoo Giddu galeessaa fayyadamuun (ujummoo haaraa fi bakka bu'amuuf barbaachisa), ykn SIR.

Odeeffannoo dabalataaf maaloo Maanuwaalii Sakatta'iinsa Diviizhinii Sadarkaa Isaa Eegatee, Boqonnaa Tekinikaalaa 3.6 Xuuxuu, Harkisa Lafaa, fi Ujummoo Siifoonii ilaalaa.

### **Ulaagaalee:**

- Adda baastuun yaa'aa sarara makaanikaalaa fi elektiroonikii waggaa waggaa qoratamuu qaba (ji'a 12n).
- Ujummoon dhiibbaa olaanaa qabu qorannoo walitti siqeenya sararaa ji'a 12n taasisuu qaba, ykn ji'aan To'annoo Giddu galeessaa (IM) ykn SIP dhaan to'atamuu qaba.
- Ujummoolee xuuxuu kanneen "xuuxuu nageenyi isaa eegame" jalatti hin ramadamneef, qorannoon walitti siqeenyaa yeroo hundaa waggaa 3n yookaan to'annoo ji'aa IM ykn SIR tiin raawwatamuu qaba.

### **Galmees Kaa'uu fi Gabaasuu:**

- Bu'aa to'annoo (IM ykn SIR) ji'oota 12 walitti aanan darbanii, fi/ykn qorannoo walitti siqeenya sararaa kan waggaa kaa'uu.
- Galmees qorannoo yaa'aa sararaa waggaa adda baasuu kan xumuraa 3n kaa'uu.
- To'annoo giddu galeessaa ujummoo dhiibbaa olaanaa:
  - Galmees qorannoo to'annoo giddu galeessaa waggaa kan xumuraa 3n kaa'uu.
  - Galmees qorannoo hojimaata ATG waggaa kan xumuraa 3n kaa'uu.
- Qorannoo, sababa murteessuu, fi sababoota damaksituu ykn kufaatii kamiyyuu sirreessuu fi gadiifamuu shakkaman hunda sa'aatii 72 keessatti gabaasuu.

## **Gabaasuu**

Meeshaan yaa'aa adda baasuu ykn mala dhangala'aa adda baasuu keessan gadhiifamuun jiraachuu akka danda'u yeroo agarsiisutti Diviizhiniif gabaasuu qabdu. Qormaata dhangala'aa kan kufe, damaksituun hin ibsamne ykn haalli hojii hin baratamne kamiyyuu erga argamee sa'aatii 72 keessatti sirnaan qoratamee Divizhinichaaf gabaafamuu qaba. Fakkeenyi haala hojii hin baratamne fi amala sirrii hin taane meeshaalee peetirooliyeemi kennuu, sirna UST irraa peetirooliyeemiin akka tasaa baduu, bishaan taankarii keessatti haala hin ibsamneen jiraachuu, ykn dhangala'aan iddoo gidduu sirnoota sadarkaa lammaffaa qabaman keessatti argamu dha. Haa ta'u malee, meeshaan sirnichaa mudaa kan qabu ta'ee garuu kan hin yaasne yoo ta'e, battalumatti kan suphame ykn kan bakka bu'ee fi hordoffiin dabalataa guyyoota soddoma (30) keessatti bu'aa jalqabaa kan hin mirkaneessine yoo ta'e, gabaasni kan hin barbaachisne ta'a.

## **Maaliif kuni barbaachisaa ta'e:**

Yoo yaa'aan kan argame ta'e deebii maallaqaa argachuu akka dandeessan mirkaneessuuf yaa'aa yeroon gabaasuun barbaachisaa dha. Iyyanni Ulaagaa Fandii argachuu erga yaa'iinsi shakkamee guyyoota sagaltama (90) keessatti ykn yaa'iinsi jiraachuu mirkanaa'e guyyoota jaatama (60) keessatti Divishinichaaf dhiyaachuu qaba. Kana malees, Diviizhiniin kun yeroo yaa'aa dhangala'aatti haala walsimannaa murteessuuf sakatta'iinsa walsimannaa hojii ni raawwata. Galmeewwan walsimannaa hojii agarsiisan dhiyeessuun isin irraa eegama. Galmeewwan kana guyyaa kaffalamuu barbaadamuun Divishinichaaf kennuu dhabuun hir'ifama fandii olaanaa ta'e fiduu danda'a. Yaa'iinsa dhangala'aa dafanii gabaasuu fi deebii kennuun baasii qulqullina waliigalaa, miidhaa naannoo hir'isa, akkasumas gatii qabeenya keessanii eeguuf gargaaruu danda'a.

## Boqonnaa 5 Ittisa Daanda'uu

Taankaroonni yookiin ujummooleen lafa fi/ykn bishaan waliin wal quunnaman danda'uu ykn “dammeessa'uu” irraa eegamuu qabu. Kunis qabiyyee sibiilota (fakkeenyaaf, wal qabsistuu fileeksii, vaalvii, elboo fi yunioni raabsituu jalaa yookaan irraa taankarii kan jiru) kanneen lafa ykn bishaan waliin wal tuqanii jiran dabalata. Taankaroonni lafa jalaa muraasi kanneen qabiyyeen isaanii sibilala tahe fayibergilasi fi ipoxii ittisa dabalataa danda'uu irraa ittisuun hin barbaachisu. Ujummooleen sibilala ittisa daanda'uu dabalataa isaan hin barbaachisu.

Malooni ittisa daanda'uu lamaan taankaroota fi ujummoolee sibiilaaf eyyamaman:

### 1. Sirna Gaalvaanikii

Sirnoonni ittisa kaatoodiki kunneen anoodii of wareegoo lafa jalatti awwaalame kanneen taankarii, ujummoo yookaan qabiyyee sibiilaa birootti maxxanee dammeessa'uu irraa isaan eegu dha. Sirni galvanik sirriin sababa anoodiin isaa lafa jala ta'ee fi rektifaayera hin qabneef hin mul'atu. Taankariif, aanoodiin warshaatti (kanneen akka taankarii sti-P3®), yookaan booda irra dirreetti ittisa dammeessa'uu dabalataa kenuuf kan diriirsamu dha. Ujummoolee fi qabiyyee ujummoolee sibiilaa biroo aanoodiin dirree irratti kan diriirfamu ta'a.

### 2. Sirna Impiresdi Kaarentii

Sirni ittisa kaatoodikii kunneen rektifaayera fayyadamuun kaarentii gara taankarii, ujummoo, yookaan qabiyyewwan biroo akka adeemu gochuun danda'uu irraa ittisu. Rektifaayeri yeroo baay'ee ijaarsa taankariitti aanu keessa yookaan alatti argama. Humni elektirikaa gara rektifaayera dirqama walitti fufaa ta'uu qaba. Sirni ittisa kaatoodikii impiresdi kaarentii yeroo hundaa erga taankariin yookaan ujummoon diriirsamee yeroo muraasa kan dabaluu dha.

**Hubachiisa:** Sararri keessoo taankarii sirna ittisa kaatodiki waliin jiru sirna gaalvaanikii yookaan sirna ittisa kaatodiki impiresdi ta'uu danda'a. Sararri keessoo taankarii kan ittisa daanda'uu alaa hin qabne dirqama hanga dhumaatti cufaa ta'uu qaba.

Quunnamsiistuu fileeksii sibiilaa (ykn kutaa ujummoo sibiilaa biroo) dirqama dammeessa'uu/daanda'uu irra karaa armaan gadii keessaa karaa isa tokkoon ittisamuu qaba:

- Quunnamsiistuu fileeksii akka isaan lafa fi/ykn bishaan waliin wal hin quunnamneef adda baasuuf:
  - Quunnamsiistuu fileeksii irratti mala ittisa diriirsuu, ykn
  - Biyyee fi/ykn bishaan quunnamsiistuu waliin wal tuqanii jiran dhabamsiisuu, ykn
- Ittisa kaatoodikii (kanneen akka gaalvaanikii ykn sirna ittisa kaatodiki karantii impiresdii) quunnamsiistuu fileeksii irratti dabaluu. Yoo mala kana fayyadamne, qorannoon yeroo isaa eeggate ni barbaachisa.

Odeeffannoo guutuu waa'ee qorannoo irratti qabdaniif, adaraa Maanuwaalii Sakatta'iinsa Diviizhinii Sadarkaa Isaa Eeggatee, Boqonnaa Tekinikalaa 4.1 Ittisa Daanda'uu ilaalaa.

Ulaagaalee:

- Sirni ittisa kaatoodiki akkaataa diizaayinii ogeessa danda'uutti dalaguu fi eegamuu qaba.
- Qorannoon sirna ittisa kaatoodiki ji'a 6 diriirsamee yookaan suphame keessatti ykn wagga 3 tti yeroo hundaa kan taasifamu dha.
- Yoo aanoodiin itti dabalame yookaan bakka buufame (yoo quunnamsiistuu fileeksitti dabalame ta'e irraan kan hafe), qorannoon walitti siqeenyaa ji'a 3 hanga 6 hojiin kun hojjetametti kan raawwatamu ta'a.
- Yoo rektifaayera qabaattan, hojjechaa akka jiruu fi sirnaan hojjechaa akka jiru guyyoota 60 keessatti dirqama sakatta'amu qaba. Yoo bu'aan rektifaayera (ampireeji yookaan voolteejii) erga qorannoo danda'uu isa dhuma taasifamee booda %20 oliin jijjiirame, taankariin keessan danda'uu irraa eegamuu isaa adda baafachuuf ogeessa danda'uu quunnamuu qabdu.
- Taankariin fi/ykn ujummoon sibiilaa ittisa daanda'uu hin qabne akkaataa qajeelfama Diviizhinichaatti hanga dhumaatti cufamuu qaba.
- Yoo sirni ittisa kaatodikii kaarentii impireesdi cufame yookaan ji'a 12 oliif hojii irra hin turre, sirna UST deebisanii hojii jalqabsiisuu dura mirkaneessi Diviizhinichaa ni barbaachisa.
- Taankariin sarara keesso dabalata ittisa daanda'uu hin qabne akkaataa qajeelfama Diviizhinichaatti hanga dhumaatti cufamuu qaba.

Galme Kaa'uu:

- Bu'aa qorannoo ittisa kaatodikii xumuraa 2 eeguu.
- Bu'aa qorannoo walitti siqeenya kamiyyuu kan anoodota dabaluu ykn bakka buusuu hordofee raawwatame eegsisuu.
- Yoo bakkichi sirna eegumsa kaatodikii impiresidi karentii qabaate:
  - Bu'aa sakatta'iinsa sirreeffamaa guyyoota 60 Unka Sakatta'iinsa Deemsa Dhaabbataa Ji'aa/Waggaa (CN-2544) irratti galmeessaa.
  - Bu'aa sakatta'iinsa reektifaayira guyyoota 60 darban sadan eegaa.

## Boqonnaa 6 Meeshaalee ittisa dhangala'aa

Taankariin gaalooniiwwan 25 fi isaa oliin guutaman kamiyyuu yeroo tokkotti dirqama akka hin yaasneef ittistuu qabaachuu qabu. Meeshaaleen ittisa dhangala'insaa ujummoon daddabarsii ujummoo itti guutamu irraa yeroo addan citu yaa'aa mudachuu danda'an qabachuu qabu. Yeroo baay'ee meeshaan yaa'aa ittisan "spill buckets" yookin "catchment basins" jedhamuun beekamu. Oomishitoonni kunneen yeroo dheeraadhaaf akka baataniif kan tolfaman miti. Baaldiiwwan dhagala'aan keessa yaa'u yeroo baay'ee taankiiwwan yookin Ujummo caalaa "turtii jireenyaa" gabaabaa qabu.

**HUBACHIISA:** Gar-tokkeen baaldiin yaa'iinsaa vaalviwwan gogiinsaa kan qabaniif taankarii keessa akka gogsaniif gargaaru. Yeroo baaldiiwwan ittiin dhangalaasan gara taankarichaattii yeroo yaa'anitti bishaan walitti qabame kamiyyuu yookin bor'aan isaa gara taankariitti galuu danda'a. Valviwwan bishaan ba'u yeroo salphaatti miidhamuu danda'u kunis qulqullina baaldi dhangala'aa sanaa balaadhaaf saaxiluu danda'a.

### Ulaagaalee:

#### Ji'a ji'aan:

- Meeshaa yaa'iinsa dhorku miidhamuu isaa ijaan daawwadhaa.
- Dhangala'aa yookaan balfa dhangala'aa meeshaa yaa'iinsa dhorku jalaa akka ta'utti baasuun gatu.
- Gufuuwwan ujummoo keessa jiran ilaaluu fi balleessuu.
- Kopheen guutinsaa ujummoo guutinsaa irratti haala gaariin akka maxxanee fi golgaa baaldi dhangala'aa wajjin akka wal hin tuqne mirkaneeffachuuf ilaalaa.
- Meeshaalee ittisa dhangala'aa dallaa lamaa kan hordoffii gidduu galeessaa qabaniif, naannoo gidduu jiru keessa dhangala'aan jiraachuu isaa ilaalaa.
- Taankaroota geejiba yeroo guyyoota 30 ol fudhataniif meeshaaleen armaan olii ji'a ji'aan ykn tokkoon tokkoon geejjibaa dura sakatta'ammu danda'u.

### Yeroo waggaa 3 hundatti:

- Qormaata qulqullina meeshaalee ittisa dhangala'aa gaggeessuu.

### Suphaa fi Bakka buusuu

- Yoo baaldi dhangala'aa qormaata qulqullinaa kufe ykn miidhamni isaa kan mul'atu ta'e:
  - Baaldii dhangala'aa kan biraan bakka buusuu
  - Baaldi dhangala'aa akkaataa yaada oomishtootaa qofaan suphaa taasisuu
  - Qajeelfama diviizhinii ykn Inistiitiyuutii Meeshaalee Peetirooliyeemi (PEI) - RP1200 hordofuun qorannoo qulqullina baaldi dhangala'aa gaggeessuu.
    - Qorannoo qulqullinaa kufuun suphaa ykn bakka buusuu gaafata.
- Qorannoon qulqullinaa suphaa ykn bakka buusuu booda guyyaa 30 keessatti raawwatamuu qaba.
- Yoo faalamni jiraate, akka wal-gadhiisii shakkameetti sa'a 72 gidduutti gabaasaa.

### Galmee Kaa'uu:

- Sakatta'iinsi deemsa meeshaa ittisa dhangala'aa/baalddi dhangala'aa ji'a ji'aan Unka Deemsa Sakatta'iinsa Ji'aa/Waggaa Mooraa Diviizhinii (CN-2544)– WAAGGA TOKKO irratti galmaa'a.
- Qormaata qulqullina meeshaa ittisa dhangala'aa waggaa 3 – WAGGAA SADIi
  - Yoo qorannoon haayidiroo istaatiksii unka Diviizhinii CN-1366 fayyadame.
- Meeshaalee ittisa dhangala'aa dallaa lamaa bu'aa hordoffii ji'a ji'aan – Hanga malli hordoffii ji'aa kun itti fayyadamametti gabaasi kaa'amuu qaba.
- Galmee suphaa fi bakka buusuu bu'aa qorannoo qulqullinaa waliin – WAGGAA SADIi



## Boqonnaa 7 Meeshaalee ittisa dhangala'aa Humnaan olii

Taankariin al tokkotti gaalooniiwwan 25 fi isaa oliin guutame kamiyyuu akka gadi hin yaasneef ittistuu qabaachuu qaba. Meeshaan ittistuu dhangala'aa UST keessatti diriirfamuun yeroo oomishi geejjibamutti akka oomishoonni gadi hin dhiifamne gargaara.

Sirni UST peetirooliyeemii kuusuudhaaf hanga ta'etti abbootiin qabeenyaa fi yookiin opireeterootni yaa'uu isa'atiin yookin guutuu isa'atiin akka hin dhangalaaneef mirkaneessuu qabu. Abbaan qabeenyaa fi/yookiin opireetarri taankarichaa dhibbantaa taankaricha keessa jiru jijjiirricha osoo hin taasifamiin dura dhibbantaa peetirooliyeemii jijjiiramu sana caala ta'uu isaa akkasumas hojii jijjiirrichaa humnaan ol akka hin guutne fi akka irra darbee hin yaaneef yeroo yeroodhaan hordoffiin akka irratti taasifamu gochuu qabu.

Meeshaan ittisa dhangala'aa humnaan olii kan inni oomishamuuf:

1. Yaa'iinsa oomishaa ittisuu (battalatti ofiin meeshaa cufuu ykn vaalvii filaapperii), ykn
2. Yaa'iinsa oomishaa hir'isuu (meeshaa yaa'iinsa dhorkan ykn vaalvii kubbaa bololi'u), ykn
3. Taankariin osoo hin guutin dura hojjettoota qaqqabsiisan akeekkachiisi (sadarkaa ol'aanaa kan dhaga'amu/mul'atu)

### MEESHAALEE OFUMAAN CUFAMAN

Meeshaaleen ofumaan cufaman, yeroo tokko tokko filaperi ykn vaalvi filaperi jedhaman, qaama diropi tiyubitti waliin guutiinsa taankarii keessatti walitti hidhamanii jiru. Isaanis jalqaba irratti yeroo daddabarsa oomishni sadarkaa dursee murtaa'e irra yeroo ga'etti dhangala'aa oomishaa daangessuu fi booda guutummaatti akka cufuuf kan qophaa'ani dha. Vaalviin ofiin cufaman yaa'aa to'achuu fi guutiinsa taankarii humnaan olii ittisuuf bakka sirriitti hidhamuu fi bilisaan hojichuu qabu.

Meeshaan yaa'aa humnaan olii ofiin cufan hundi geggeessaa boba'aa %95 'cufuu' qabu. Oomishtonni hundi diizaayinii meeshaa isaanii irratti hundaa'uun 'dhorkaa' gara garaa qabu. Sadarkaan daangeffama jalqabaa kun jalqaba kan socho'u yoo ta'u, dhangala'aa oomishaa haalaan daangessuuf osoo hin saagin cufiinsa qabatamaa %95 irratti kan cufu dha. Kunis oomishni hoosii geejjibaa keessatti hafe tokko tokko osoo taankariin ulfaatina %95 hin ga'iin dura gara taankariitti akka dhangala'uu fi hojiitti hiikuun akka cufamu taasisa.

### MEESHAALEE DHANGALA'AA DAANGESSU

Meeshaaleen dhangala'aa daangessan, yeroo tokko tokko vaalvii kubbaa bololi'u jedhaman, taankarii keessa ujummoo qilleensaa keessatti argamu. Akkuma taankariin guuteen, kubbaan vaalvicha keessaa ol ka'uudhaan yaa'a hurka taankerichaa keessaa ni dhorka. Dhibbantaan yaa'aa ni hir'ata akkasumas namni dhaqabsiisu sun geessisuu isaa akka dhaabu yaadachiisa. Meeshaaleen kunneen yaa'aa kan dhorkan yeroo taankariin %90 guutuu ta'u dha. Vaalviin kubbaa bololi'u salphaatti kan mul'atu miti. Galmeen dhaabbatichaa taankariin tokko meeshaa kana qabaachuu isaa agarsiisuu danda'a, ykn kontiraaktariin taankarii dhaabe yoo jiraatan beekuu danda'a Vaalvonni kubbaa bololi'an hojiiwwan taankarii hunda keessatti fayyadamuu dhiisuu danda'u.

Vaalviin kubbaa bololi'u ittisa humnaan ol guute keessatti hin fayyadamuu dhiisuu dandeenya:

- Sirna ujummoo xuuxuu waliin
- Qaqqabsiisa dhiibbaa qabu waliin
- Taankarii guutiinsa halaalaaf
- Taankarii jenereetarii hatattamaa sirna xuuxuu qabu irratti
- Taankarii hurkaa kooaksiilii Sadarkaa I deebisuu qaban irratti yoo fiitingiiwwan qaqqabsiisuu barbaachisoo ta'an kaa'aman irraan kan hafe.

**MADAKSITUU SAGALEE/ARGAMU SADARKAA OLAANAA**

Madaksituun sagalee/argamu kan sadarkaa olaanaa, yeroo baay'ee madaksituu guutiinsa akeekkachiisu jedhamuun baakama, kunis konkolaachisaan boba'aa yeroo boba'aa geessutti USTn %90 yeroo guttetti akeekkachiisa sagaleen dhagahamu fi/yookaan ijaan argamu kan dhiyeessu dha. Isaanis yeroo baay'ee qaama safartuu taankarii awutoomaatikaalaa (ATG) ti. Madaksituun yeroo humnaan oli guutu ofii isaa yaa'iinsa hin dhaabu yookaan hin dhorku.

Meeshaan bakkee bakka boba'aan geeffamutti dhoo kan ta'ee fi bakka taankarii irra yookaan fageenyatti bakka guutamutti yeroo qabiyyeen taankarii %90 guute opireetara akka taankarichi guutaa jiru wanta argamuun fi/yookaan sagaleen kan beeksisuun ta'a.

**Ulaagaalee fi Galmee Kaa'uu:**

- Qormaata hojimaata ittisa humnaan ol guutinsaa meeshaa WAGGAA SADI SADIIN raawwadha
- Qormaata galmee (CN-2584) hojimaata ittisa humnaan ol guutinsaa meeshaa WAGGAA SADIIF kaawwadhaa
- Galmee suphaa fi bakka buusuu bu'aa qorannoo hojimaata booda waliin WAGGAA SADIIF kaawwadhaa
- **Vaalviin kubbaa bololi'u hin diriirfamu, hin suphamu, yookaan bakka hin buufamu. Meeshaan guutiinsa humnaan olii ittisu biraan dirqama diriirfamuu qaba.**

## Boqonnaa 8 Raabsituu Boba'aa Mootoraa

Mootaroonni raabsaa boba'aa haaraan hundi akkaataa qabiyyee raabsaa (UDC) tti qabaachuu qabu. UDCn dhangala'aa to'achuuf gargaara. UDCn dhangala'aa to'achuuf jabina kan qabu, oomisha waliin kan walsimu, fi sakatta'iinsa ijaan ilaaluuf kan dhaqqabamu ta'uu qaba. Yeroo raabsituu fi meeshaa walqabsiisu bakka buusnu (sirna dhiibbaa qabu keessatti valvii dhiibaa qabu/wal riguu jalatti ykn sirna xuuxuu keessatti valvii walitti fidduu jalatti), UDC barbaachisa.

UDCn kan jiraate yoo ta'e illee, dhangala'aan akka hin uumamneef, filtara ykn ujummoo raabsituu jala jiru irraa dhangala'aa ykn dhangala'uu kamiyyuu kurmaanaan sakatta'amu qaba. Sakatta'iinsi kunniin yaa'aa naannoo raabsituu keessatti uumamuu danda'u kamiyyuu kan meeshaalee gadhiifamuu to'ataniin hin hordofamne haala bu'a qabeessa ta'een furuuf barbaachisoo dha. Sakatta'iinsi kurmaanaa kunniin Unka Sakatta'iinsa Deemsa Mooraa Ji'aa/Waggaa Diviizhinii (CN-2544) irratti galmaa'uu qaba.

Eejansiiwwan biroo, Muummee Qonnaa, akkasumas aangawoo faalama qilleensaa naannoo fi biyyittii dabalatee dalagaa dispeensaraatiif ulaagaalee to'annoo adeemsaa ni qabu. Deeggarsa yoo barbaaddan, maaloo Deeggaraa Daldala Xixiqaa karaa (615) 532-8013 ykn 1-800-734-3619 ykn imeelii [BGSPPEAP@tn.gov](mailto:BGSPPEAP@tn.gov) nu quunnamaa.

<https://www.tn.gov/environment/program-areas/sbeap-small-business-environmental-assistance.html>

## Boqonnaa 9      Sakatta'iinsa Hojii fi Suphaa Keessa Adeemuu

Sirna UST sirnaan akka hojjetu taasisuu fi eeguuf abbootiin qabeenyaa fi/ykn opereetoroonni yeroo yeroon sakatta'iinsa keessa adeemuu gaggeessuu qabu. Sakatta'iinsi kun galmee hojii qabachuu, meeshaaleen walsimachuu fi peetirooliyeemiin akka gad hin dhiifamnee ittisuuf kan qophaa'ani dha. Sakatta'iinsi kunniin Unka Sakatta'iinsa Deemsa Mooraa Ji'aa/Waggaa Diviizhinii (CN-2544) irratti galmaa'uu qaba. Yeroon sakatta'iinsa barbaachisu lamatu jira: kan ji'aa fi waggaa.

### Ulaagaalee:

#### **Ji'a ji'aan:**

Meeshaalee ittisa dhangala'aa:

- Ijaan miidhama qaqqabe ilaaluu.
- Dhangala'aa ykn caccabaa gatuun sirnaan balleessuu.
- Gufuuwwan ujummoo keessa jiran ilaaluu fi balleessuu.
- Kopheen guutinsaa ujummoo guutinsaa irratti haala gaariin akka maxxanee fi golgaa baaldi dhangala'aa wajjin akka wal hin tuqne mirkaneeffachuuf ilaalaa.
- Meeshaalee ittisa dhangala'aa dallaa lamaa kan hordoffii gidduu galeessaa qabaniif, naannoo gidduu jiru keessa dhangala'aan jiraachuu isaa ilaalaa.
- Taankaroota geejiba yeroo guyyoota 30 ol fudhataniif meeshaaleen armaan olii ji'a ji'aan ykn tokkoon tokkoon geejjibaa dura sakatta'amu danda'u.

Meeshaalee Yaa'aa Adda baasan:

- Meeshaan gadhiifamuu adda baasan damaksituu ykn haalawwan hojii hin baratamne biroo osoo hin jiraatin hojjechaa jiraachuu isaanii mirkaneeffachuu; fi
- Galmeen qorannoo yaa'aa adda baasuu akka gamaggamamee fi kan yeroo ammaa ta'uu isaa mirkaneeffachuu.

#### **WAGGAAN:**

Taankarii Kuusaa Qabiyyee(Containment Sumps):

- Miidhaa, naannoo ittisaatti dhangala'uu isaa, ykn naannootti gadhiifamuu isaa ijaan ilaaluu.
- Dhangala'aa (taankarii qabiyyee keessaa) yookaan caccabaa balleessuu.
- Meeshaalee ittisa dhangala'aa dallaa lamaa kan to'annoo gidduu galeessaa qabaniif, naannoo gidduu keessa dhangala'aan jiraachuu isaa ilaalaa.

Meeshaa yaa'aa adda baasan kan harkatti qabatamu:

- Meeshaaleen akka ulee safartuu taankarii ykn wabii bishaan lafa jalaa hojiirra oolmaa fi tajaajila kennuu danda'uu isaanii sakatta'aa.

### Galmees Kaa'uu:

Unki Sakatta'iinsa Mooraa Keessa Ji'aa/Waggaa adeemamu waggaa 1f eegamuu qabu

- Galmeen qabiyyee inni qabachuu qabu:
  - Tarree naannoo sakatta'amanii kamiyyuu,
  - Naannoo sakatta'ame kamiyyuu fudhatama kan qabu yookiin tarkaanfiin fudhatamuu kan qabu ta'uu isaa,

- Ibsa tarkaanfiiwwan dhimma rakkoo ta'e sirreessuuf fudhatamani, fi
- Galmee geejjibaa yoo meeshaan yaa'aa ittisu guyyoota 30 gaditti sababa geejjiba yeroon hin taanen uumame.

## Boqonnaa 10 Yeroo Muraasaaf Tajaajilaan Aladha(TOS)

Taankariin tokko yeroo hojii irra jiru, *Yeroo Ammaa Hojiirra Kan Jiru* (CIU) jedhamee galmaa'a. Haa ta'u malee, yeroo gabaabaaf ykn dheeraaf taankarii hojiin ala gochuun yeroo dirqama ta'u ni jira (kunis yeroo hojii ijaarsaa, abbummaan yeroo jijjiiramu, dhiibbaa haala qilleensaa, fayyadamummaa waqtii fi kkf). Kunis jijjiirama haala Yeroo Ammaa Hojiirra Kan Jiru (CIU) irraa gara *Yeroo Muraasaaf Tajaajilaan Aladha* (TOS) tti fudhatama. Diviizhiniin haalla jijjiirama taankarii peetirooliyeemii mooraa UST keessatti ta'u dirqama beeksifamuu qaba. Ibsi ulaagaa bal'inaani yoo barbaaddaniif Maanuwaalii Sakatta'iinsa Diviizhiniin Sadarkaa isaa eeggate, Kutaa Tekinikaalaa 2.4 Sirna UST Tajaajilaan Alaa irratti argama.

### Ulaagaalee TOS:

- Jijjiirama ta'e irratti Unka Beeksisaa CN-1260 fooyya'e guyyoota 30 keessatti dhiyeessu.
- Sirnoonni eegumsa Kaatodiikii hojii irra kan turanii fi hordoffii fi qoratamuu itti fufuu qabu.
- Turtiin yeroo tajaajila ala ta'uu ji'a sadii ol yoo dheerate, sararoonni biroo hunduu, paampiin, daandiin namaa, fi meeshaaleen gargaaraa biroo hundinuu cufamuu fi eegamuu qabu.
- Sararoonni veentii banamanii turuu qabu.
- Taankarichi haftee inchii tokkoo olii yoo qabaate yaa'aa adda baasuun isaa raawwatamuu qaba.
- Meeshaaleen dhangala'aa fi garmalee guutuu ittisan diriirfamuu qabu.
- Taankarichi haftee inchii tokkoo olii yoo qabaate qorannoon meeshaa dhangala'aa fi garmalee guutuu ittisanii waggaa sadiin ni barbaachisa

**HUBACHIISA:** Yaa'aa adda baasuu fi qorannoon meeshaalee dhangala'uu fi garmalee guutuu ittisu waggaa sadiin waan hin barbaachifneef haftee taankariicha inchii tokkoo kan hin caalle gochuun yaada gaarii dha.

### Taankarii TOS (Yeroo Muraasaaf Tajaajilaan Aladha) Gara CIU (Yeroo Ammaa Hojiirra Kan Jiru)tti Deebisuuf:

- Jijjiirama ta'e irratti Unka Beeksisaa fooyya'e CN-1260 guyyoota 30 keessatti dhiyeessu.
- Qorannoo fi hordoffiin hojiirra oolaa jiru hundi guutuu fi kan yeroo ammaa ta'uu isaa mirkaneessuu
- Ulaagaaleen walsimannaa hojii hunduu hojiirra oolmaa ni qabaatu

Sirna yeroodhaaf cufame irraa yaa'aa gadhiifamu kamiyyuu akkuma sirna fayyadama irra jiruutti ilaala.

## Boqonnaa 11 Cufiinsa Sirna UST

Taankarii(wwan) fi/yookin ujummoo keessan cufuudhaaf yoo karoorsitan, lyyata Guutummaan guututti cufinsaa Taankarii Kuusaa Lafa jalaa (CN-0928) guutuudhaan gamaggammii fi mirkaneessiidhaaf waajira bakkee itti deebisaa galchaa. Erga lyyatichi mirkaneeffamee booda akkaataa ulaagaalee Divizhinichaatti cufinsa isaa xumuruudhaaf waggaa tokko qabdu. Erga Cufinisichi xumuramee booda, dirqama Gabaasa Cufinsaa Yeroo Dhaabbataa (CN-0927) Guca Beeksisa Divizhinichaa(CN-1260) dabalatee galchuu qabdu. Odeeffannoo dabalataaf, maaloo cuqaasa kana ilaalaa:

<https://www.tn.gov/environment/program-areas/ust-underground-storage-tanks/closure.html>.

## Boqonnaa 12 Suphaa fi Bakka buusuu

Yeroo yeroon sirna USTf suphaa gochuun ykn meeshaalee bakka buusuun barbaachisaa ta'uu danda'a. Kan armaan gadii suphaa, bakka buusuu, qorannoo fi galmeessuun kaa'uu isa xiqqaa ta'e ibsa.

### SUPHAAWWAN:

Suphaawwan taankarii fi ujummoof taasifamu akkaataa armaan gadiitti ta'uu qaba:

- Taankariin sibiilaa akkaataa qulqullina caasaa shaakala gochaa biyyoolessaa keekamtii qabu kanneen akka [Inistitiyuutii Peetirooliyeemii Ameerikaa](#) (API) RP 1631, [Dhaabbata Ittisa Yaa'aa Biyyoolessaa](#) (NLPA) 631, ykn [Inistitiyuutii Taankarii Sibiilaa](#) (STI) SP 131 guutuu qaba.
- Taankariiwwanii fi ujummoolee faayibergilaasi:
  - Suphaan taankarii faayibergilaasii bakka bu'aa oomishtootaatiin ykn akkaataa ibsa oomishtootaatiin raawwatamuu danda'u.
  - Ujummoowwanii fi wal qabsiistonni faayibergilaasii akkaataa ibsa oomishtootaatiin suphamuu danda'u.
- Suphaan baaldi dhangala'aa kan raawwatamuu yoo oomishtoonni hayyaman qofa.
- Suphaan baattuu qabiyyee gochaalee sadarkaa biyyaatti beekamtii qaban kan akka [NLPA](#) KWA Sadarkaa isaa kan eeggate 823 jalatti qofa raawwatamuu danda'a.
- Qaamonni qabiyyee sirna UST kamiyyuu suphuudhaaf itti fayyadaman wanta kuufame waliin walsimuu qabu. Wal simsiisama qabiyyee adda baasuuf Laaboraatoorii Barreessaa Jalaa (UL) [Meeshaa Walsima Boba'aa](#) ilaalaa.

### BAKKA BU'INSA:

- Kutaan ujummoo fi walitti qabsiistuun sibiilaa sababa danda'iinsa miidhaman dirqama bakka bu'amuu qabu.
- Yoo sirni ittisa kaatodikii kaarentii impireesdi cufame yookaan ji'a 12 oliif hojii irra hin turre, sirna UST deebisanii hojii jalqabsiisuu dura mirkaneessi Diviizhinichaa kan barbaachisu ta'a.
- Bakka bu'iinsi ujummoo hundi hordoffii gidduugaleessaa waliin qabiyyee sadarkaa lammaffaa qabaachuu qaba.
- Yeroo raabsituu bakka buusan meeshaaleen walqabsiisan kamiyyuu bakka buufamuu kan qaban yoo ta'e akkaataa qabiyyee raabsituu jalatti (UDC) hordoffii gidduugaleessaa qabu diriifamuu qaba.

### QORUU, GALMEESSUUN KAA'UU, FI GABAASUU

- Kutaan suphame kun erga suphaa ykn bakka buufamee guyyoota 30 keessatti qorannoon yaa'aa qabaachuu ykn walitti siqeenya isaa ji'a ji'aan hordofama.
- Qormaanni qulqullina (integrity testing) qabiyyee lammaffaa suphaa irraa eegalee guyyoota 30 keessatti ni barbaachisa.
- Kontiraaktaroota gahumsa qaban akkasumas kanneen sirnaa fi meeshaalee UST beekan akka fayyadaman mirkaneeffachuu.
- Suphaan sirnoota UST irratti taasifamu sirni UST akka yaa'aa hin qabaanne taasisuuf oola.
- Galmeen suphaa hundi umurii hojii sirna UST hafeef qabamuu qaba.
- Suphaa ykn bakka buusuun kuusaa ykn ujummoo kamiyyuu sa'aatii 24 keessatti Kutaa beeksisuu.

Kutaan kun suphaa ujummoo hunda dursee hayyamuu qaba. **Gaaffiin hayyama Kutaa suphaa ujummoo hojii gaggeessuu dura barreeffamaan dhiyaatee mirkanaa'uu qaba.**



## Boqonnaa 13 Boba'aawwan wal-makan

Sirna UST boba'aa etaanooliin makame etaanoolii %10 ol yookiin makaa baayoodiizilii %20 ol ta'e kuusuudhaaf qophaa'e tajaajila keessa galchuu isaanii dura, abbootiin qabeenyaa taankii Tarree Sakatta'iinsa Walsimsiisaa Meeshaalee (CN-1285) fi Ibsa Walsimsiisaa guutuu fi dhiyeessu qabu (CN-1283) kan agarsiisu qaamoleen sirna UST oomisha kuufame waliin kan walsimu ta'a.

Boba'aawwan itaanooliidhaan wal-makaman itaanoli boba'aan sun of keessaa qabuutiin kan tolfamanidha. Boba'aan akka E-85 jedhamuun irratti barreeffame, alkoolii ethyl 85% fi gasoline 15% of keessaa qaba. E-10, alkoolii ethyl 10% fi gasoline 90% of keessaa qaba. Boba'aawwan itaanooliidhaan wal-makaman hammentaa itaanoli boba'aan sun of keessaa qabuutiin kan tolfamanidha. Boba'aan B-20 jedhamuun irratti barreeffame, biodiesel 20% fi diesel 80% of keessaa qaba. Fedhii bobo'aawwan filannoodhaan jiran hunda waliin, siistema UST baay'ee keessaa qabiyyeewwan hundi isaanii oomishoota peetrooliyeemii kuusuu fi raabsuudhaaf kan tolfaman akka hin taane yaadachuun barbaachisaadha.

Diviizhiniin kun hiika dambii peetrooliyeemii jalatti oomishaalee boba'aa (T.C.A. § 68-215-102), kan boba'aa makaa of keessatti hammate, haala nageenya qabuun kuusuu irratti ni kaffala. Siistamoonni UST kan boba'aawwan wal-makan of keessaa qabu ulaagaalee UST hunda guutuun irraa eegama. Diviizhinichi waa'ee mijaa'ina boba'aawwan dhibbantaa peetrooliyeemii parsanteejii olaanaa qabu kuusuudhaaf qabiyyeewwan siistema UST dhaan wal-makanii yaadda'ee jira. Qabiyyeewwan siistema UST boba'aawwan waliin makaman waliin ta'uudhaan haala hin taaneen dhibbaa irratti fiduu danda'a.

### Filannoowwan Raabsituu(Dispenser)

Raabsituuwwan qabiyyee ijoo siistema boba'aa UST ti. Oomishtoonni Diispeensaraa, diispeensaroota kan isaan boba'aawwan waliin makaman waliin wal-simatu jedhanii raggaasan gurguru. Kunis filannoo Diviizhinichi boba'aawwan waliin makaman waliin itti fayyadamaniif yaada gorsaa kennudha.

Abbaan taankarichaa dispeensara isa amma jiru boba'aawwan wal-makan waliin itti fayyadamuudhaaf yoo barbaade, kan fe'u sun qabiyyeewwan dispensaroota Ethanol Equipment Compatibility Checklist (CN-1285) Kutaa 2 keessa jiran hundumaa warshaa oomishee sanaan yookin kanneen Mallattoo UL Marked jedhu qaban, boba'aa waliin makamaniif mijaawaa ta'uu isaanii odeeffannoo mirkaneessii isaa guutuudhaan mirkaneesuu qaba. Qabiyyeewwan hundi mallattoo "Yes" jedhu yoo qabaatan diispeensarichi akka boba'aawwan waliin makaman waliin wal-simutti ilaalama.

Qabiyyeewwan tarreeffaman keessaa tokkoyyuu akka mallattoo UL Marked 'n hin mirkaneeffamne yookin oomishtootaan akka mijaawaa ta'etti ragaa kan hin qabne yoo ta'e, diispeensarichi boba'aa e-blended waliin akka wal-simuutti hin ilaalamu. Raabsituuwwan waarshaa isa'atiin hin raggaafamne yookin Mallattoo UL hin qabne boba'aa E-blend'f mijaa'aa ta'uu isaaniif dirqama guyya guyyaadhaan dhangala'aa akka yaasanii fi qabachuu dadhabuu isaanii beekuuf Unka Sakatta'iinsa Hoggayyuu Raabsituu (CN-1284) fayyadamuudhaan qoratamuu qaba. Gučni tokko raabsituu yookin MPD (multi-product dispenser) taankarii boba'aa wal-makaa qabun wal-qabatee jiru hundaaf ni tajaajila. Galmeewwan kunneen dirqama turtii waggaa tokkootii bakkicharra turuu qabu.

Waa'ee carraawwan boba'aa biroo odeeffannoo dabalataa argachuuf, weebsaayitii EPA: <https://www.epa.gov/ust/emerging-fuels-and-underground-storage-tanks-usts#tab-1> daawwachuu dandeessu.

## Boqonnaa 14 Sagantaawwan To'annoon Wal qabatan Kanneen Biroo

Dhaabbileen Benziina Raabsan (GDF) adda durummaan seera naannoo To'annoo Faalama Qilleensaa (APC) fi Taankii Kuusaa Lafa Jala (UST) irraa dhufaniin kan miidhaman dha. Hojii addaa dhaabbata keessan keessatti hojjetame irratti hundaa'uun, hayyamaa fi ulaagaaleen Kutaa Qabeenya Bishaanii (DWR) ykn Kutaa Sirreeffama (Remediation) murtaa'anis dhaabbata keessan irratti dhiibbaa uumuu danda'u. Seerotni APC muuxannoowwan bulchiinsa gaarii fi To'annoo Hurkaa Sadarkaa I kan hammatudha. Seerri UST karaa taankii kuusaa lafa jalaa buqqisuudhaan dhaabuu kan hammatudha. Kunis gosoota qorannoo fi galmeewwan umurii kuusaa sanaaf barbaachisan of keessatti qabata. Hayyamni DWR yeroo baayyee ijaarsa ykn hojiiwwan bishaan irratti karaa tokkoon dhiibbaa geessisaniif barbaachisaa ta'a. Sirreeffamni yoo qulqullinni barbaachisaa ta'e UST fi DWR waliin baay'ee walitti hidhata qaba.

Odeeffannoo dabalataa Sagantaa Gargaarsa Naannoo Daldala Xixiqqaa TDEC irraa <https://www.tn.gov/content/tn/environment/program-areas/sbeap-small-business-environmental-assistance/permit-by-rule.html> irraa argachuu dandeessu. Faasiliitichi Kaawuntiiwwan Davidson, Hamilton, Knox, yookaan Shelby keessatti argama taanaan, ulaagaalee qilleensaaf eyyema argachuuf sagantaalee to'annoo faalama qilleensaa naannichaa quunnamaa.

Kanneen armaan gadii sagantaalee dabalataa barbaachisummaa addaatiif quunnamuun barbaachisuu danda'aniidha:

- Kutaa Tajaajila Fayyadamtootaa fi Industirii Kutaa Qonnaa Teeneesii (Kutaa Ulfaatinaa fi Safartuu)
- Muummee Galiwwanii Teeneesii
- Muummee Ibidida Naannoo, koodii, ykn dhaabbilee bulchiinsa magaalaa biroo