

Kentucky Department for Environmental Protection
Division of Waste Management
Underground Storage Tank Branch
300 Sower Boulevard, Second Floor – Frankfort KY 40601
(502) 564-5981

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UST Classification Guide

1. UST Facility Information

Agency Interest Number (AI)	
UST Facility Name	
Classification Type (select one)	<input type="checkbox"/> Initial Classification <input type="checkbox"/> Amended Classification

2. Soil Classification

Soil Classification Instructions: Answer applicable questions. This guide places the UST facility into a particular class and establishes UST system screening levels for soil. Refer to Section 7.1 of the UST Corrective Action Manual regarding criteria for soil classification.

<p>A. Are any domestic-use wells, domestic-use springs or domestic-use cisterns located within a 100-meter (328 feet) radius from the excavation zone?</p>	<input type="checkbox"/> Yes Proceed to question C. Provide below the physical address and contact information for the owner of each domestic-use well, domestic-use spring or domestic-use cistern identified. <input type="checkbox"/> No Proceed to question B. <input type="checkbox"/> N/A Domestic-use wells, domestic-use springs, or domestic-use cisterns were disregarded. *See note. Proceed to question B.
<p>B. Does analysis of soil samples collected from the excavation zone or soil borings indicate levels above the Class A Adjusted Soil Screening Levels on-site specified in the Class A Soil Screening Levels Table?</p>	<input type="checkbox"/> Yes Class A Adjusted Soil Screening Levels apply to soil within the Point of Compliance and the applicable Class B Soil Matrix Table Screening Levels apply to soils beyond the Point of Compliance (complete the Class A Soil Screening Levels Table only – below). <input type="checkbox"/> No Soil levels meet the requirements for Class A (complete the Class A Soil Screening Levels Table only – below).
<p>C. Does analysis of soil samples collected from the excavation zone or soil borings indicate levels above those specified in the applicable Class B Soil Matrix Table?</p>	<input type="checkbox"/> Yes The applicable Class B Soil Matrix Table Screening Levels apply both within and beyond the Point of Compliance (complete the Class B Soil Screening Levels Table only – on next page). <input type="checkbox"/> No Soil levels meet the requirements for Class B (complete the Class B Soil Screening Levels Table only – on next page).

Note: Domestic-use wells, domestic-use springs, or domestic-use cisterns: if site-specific information demonstrates no potential impact (e.g., a domestic-use well hydrogeologically upgradient from the excavation zone) to domestic-use wells, domestic-use springs, or domestic-use cisterns from a release within the excavation zone, those features shall be disregarded in the determination of a UST facility classification.

Instructions for Class A Soil: Only complete the Class A Soil Screening Levels Table below for a UST facility classified as Class A in Section 7.1.1. If the UST facility does not qualify for Class A, complete the Class B Soil Screening Levels Table on the next page.

- Row 1 Identifies the baseline soil screening levels for Class A.
- Row 2 Identify the applicable Matrix Table (refer to Table 2 of the UST Corrective Action Manual). Based on the identification of the appropriate Matrix Table, depth to groundwater and soil type, complete the Class B Soil Matrix Table Screening Levels beyond the Point of Compliance (refer to Tables 2 through 5 of the UST Corrective Action Manual).
- Row 3 Identify the adjusted soil screening levels required within the Point of Compliance for a UST facility in Class A by choosing the less stringent constituent levels from Rows 1 and 2 for each constituent. Row 3 identifies the final soil screening levels within the Point of Compliance.

Class A Soil Screening Levels Table (ppm)

Row		B	T	E	X	Ch	B(a)A	cPAH	nPAH	NAP	Lead
1	Class A Baseline Soil Screening Levels within the Point of Compliance	2	18	30	50	15	0.15	0.3	10	5	400
2	Matrix Table Soil Screening Levels beyond the Point of Compliance	Class B Soil Matrix Table: _____ Soil Type: _____ Depth to Groundwater: _____									
3	Class A Adjusted Soil Screening Levels within the Point of Compliance										

AI _____

Instructions for Class B Soil: Only complete the Class B Soil Screening Levels Table below for a UST facility classified as Class B in Section 7.1.2 of the UST Corrective Action Manual. Identify the applicable Matrix Table (refer to Table 2 of the UST Corrective Action Manual). Based on the identification of the appropriate Matrix Table, depth to groundwater and soil type, complete the Class B Soil Matrix Table Screening Levels beyond the Point of Compliance (refer to Tables 2 through 5 of the UST Corrective Action Manual).

Class B Soil Screening Levels Table (ppm)

Soil Screening Levels within and beyond the Point of Compliance	Class B Soil Matrix Table: _____ Soil Type: _____ Depth to Groundwater: _____									
	B	T	E	X	Ch	B(a)A	cPAH	nPAH	NAP	Lead

3. Groundwater Classification

Groundwater Classification Instructions: Answer applicable questions. This guide places the UST facility into a particular class and establishes UST system screening levels for groundwater. Refer to Section 7.2 of the UST Corrective Action Manual regarding criteria for groundwater classification.

A. Is the UST facility serviced by a public water supply?	<input type="checkbox"/> Yes	Proceed to question B.
	<input type="checkbox"/> No	Groundwater Table I screening levels apply within and beyond the Point of Compliance (complete the Groundwater Screening Levels within the Point of Compliance below).
B. Are domestic-use wells, domestic-use springs, or domestic-use cisterns located within a 100-meter (328 feet) radius from the excavation zone?	<input type="checkbox"/> Yes	Groundwater Table I screening levels apply within and beyond the Point of Compliance (complete the Groundwater Screening Levels within the Point of Compliance below).
	<input type="checkbox"/> No	Proceed to question C.
	<input type="checkbox"/> N/A	Domestic-use wells, domestic-use springs, or domestic-use cisterns were disregarded. *See note. Proceed to question C.
C. Are domestic-use wells, domestic-use springs, or domestic-use cisterns located within a 100-meter (328 feet) to 300-meter (984 feet) radius from the excavation zone?	<input type="checkbox"/> Yes	Groundwater Table II screening levels apply within the Point of Compliance and Groundwater Table I screening levels apply beyond the Point of Compliance (complete the Groundwater Screening Levels within the Point of Compliance below).
	<input type="checkbox"/> No	Groundwater Table III screening levels apply within the Point of Compliance and Groundwater Table I screening levels apply beyond the Point of Compliance (complete the Groundwater Screening Levels within the Point of Compliance below).
	<input type="checkbox"/> N/A	Domestic-use wells, domestic-use springs, or domestic-use cisterns were disregarded. *See note. Groundwater Table III screening levels apply within the Point of Compliance and Groundwater Table I screening levels apply beyond the Point of Compliance (complete the Groundwater Screening Levels within the Point of Compliance below).

Note: Domestic-use wells, domestic-use springs, or domestic-use cisterns: if site-specific information demonstrates no potential impact (e.g., a domestic-use well hydrogeologically upgradient from the excavation zone) to domestic-use wells, domestic-use springs, or domestic-use cisterns from a release within the excavation zone, those features shall be disregarded in the determination of a UST facility classification.

Instructions for Groundwater Screening Levels: Complete the Groundwater Screening Levels Table below.

Row 1 Identify the applicable Groundwater Table and corresponding BTEX screening levels within the Point of Compliance (refer to Table 6 of the UST Corrective Action Manual).

Row 2 Identifies Groundwater Table 1 and corresponding screening levels beyond the Point of Compliance.

Groundwater Screening Levels (ppm)

Row		B	T	E	X	cPAH	nPAH	NAP	Dissolved Lead*
1	Groundwater Screening Levels within the Point of Compliance	Groundwater Table:							
						0.005	3	0.3	0.015
2	Groundwater Screening Levels beyond the Point of Compliance	0.007	0.94	0.47	5.89	0.005	3	0.3	0.015

AI _____

4. Domestic-Use Wells, Domestic-Use Springs, and Domestic-Use Cisterns


Instructions: Provide the physical address and contact information for the owner of each domestic-use well, domestic-use spring, or domestic-use cistern identified. All domestic-use wells, domestic-use springs, or domestic-use cisterns shall be remediated to the maximum contaminant levels (MCLs) established in 401 KAR Chapter 8.

Owner Name:	Physical Address:	Phone Number: () -
<input type="checkbox"/> DU Well <input type="checkbox"/> DU Spring <input type="checkbox"/> DU Cistern	Latitude:	Longitude:
Photo Attached: <input type="checkbox"/> Yes <input type="checkbox"/> No, explain:		
Owner Name:	Physical Address:	Phone Number: () -
<input type="checkbox"/> DU Well <input type="checkbox"/> DU Spring <input type="checkbox"/> DU Cistern	Latitude:	Longitude:
Photo Attached: <input type="checkbox"/> Yes <input type="checkbox"/> No, explain:		
Owner Name:	Physical Address:	Phone Number: () -
<input type="checkbox"/> DU Well <input type="checkbox"/> DU Spring <input type="checkbox"/> DU Cistern	Latitude:	Longitude:
Photo Attached: <input type="checkbox"/> Yes <input type="checkbox"/> No, explain:		
Owner Name:	Physical Address:	Phone Number: () -
<input type="checkbox"/> DU Well <input type="checkbox"/> DU Spring <input type="checkbox"/> DU Cistern	Latitude:	Longitude:
Photo Attached: <input type="checkbox"/> Yes <input type="checkbox"/> No, explain:		

5. Certification

Under the requirements of KRS Chapter 322 and 322A, this checklist shall be completed and signed by a P.E. licensed with the Kentucky Board of Licensure for Professional Engineers and Land Surveyors or a P.G. registered with the Kentucky Board of Registration for Professional Geologists.

I, the undersigned, state, under penalty of law, that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information, I certify the submitted information is true, accurate and complete.

Printed		Title	
Signature		Date	/ /
<input type="checkbox"/> Professional Engineer		<input type="checkbox"/> Professional Geologist	
License Number		Registration Number	
License Date		Registration Date	

If you have questions on how to fill out this form please contact the cabinet at (502) 564-5981 or visit our web site at <http://waste.ky.gov/ust>. For copies of UST facility records please visit <http://eec.ky.gov/pages/openrecords.aspx> or email EEC.KORA@ky.gov.

- BTEX: Benzene, Toluene, Ethylbenzene, and Xylene (*total*)
- PAH: Polynuclear Aromatic Hydrocarbons
- Ch: Soil screening level for Chrysene
- B(a)A: Soil screening level for Benzo(a)anthracene
- cPAH: Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, and Indeno(1,2,3- cd)pyrene
- nPAH: Acenaphthene, Acenaphthylene, Anthracene, Benzo(ghi)perylene, Fluoranthene, Fluorene, Phenanthrene, and Pyrene
- NAP: Naphthalene
- ppm: mg/kg - parts per million for soil and mg/L – parts per million for groundwater
- * Samples shall be filtered prior to acid preservation.