

# UNDERGROUND STORAGE TANK

ERA's Underground Storage Tank (UST) products in water and soil matrices are purposefully designed to meet accreditation requirements for Petroleum Hydrocarbons analysis in various jurisdictions.



## 2015 UST in Water PT Scheme Schedule

|          | Scheme # | Opens  | Closes |
|----------|----------|--------|--------|
| <b>Q</b> | WP 240   | Jan 12 | Feb 26 |
| <b>Q</b> | WP 243   | Apr 13 | May 28 |
| <b>Q</b> | WP 246   | Jul 13 | Aug 27 |
| <b>Q</b> | WP 249   | Oct 16 | Nov 30 |

Schedule subject to change – see ERA's website at [www.eraqc.com](http://www.eraqc.com)

## 2016 UST in Water PT Scheme Schedule

|          | Scheme # | Opens  | Closes |
|----------|----------|--------|--------|
| <b>Q</b> | WP 252   | Jan 18 | Mar 3  |
| <b>Q</b> | WP 255   | Apr 11 | May 26 |
| <b>Q</b> | WP 258   | Jul 18 | Sep 1  |
| <b>Q</b> | WP 261   | Oct 14 | Nov 28 |

Schedule subject to change – see ERA's website at [www.eraqc.com](http://www.eraqc.com)

**CRM** – Certified Reference Material

**PT** – Proficiency Testing

**QR** – Quik Response

All ERA UST PTs open quarterly (**Q**) unless otherwise noted.

\*ERA Alaska PTs are available at any time.

| Description                                 | CRM     | PT  | QR             | Page |
|---|---------|-----|----------------|------|
| Alaska BTEX in Water                        | 646*    | 474 | * —            | 55   |
| Alaska DRO in Water                         | 647*    | 475 | * —            | 55   |
| Alaska GRO in Water                         | 645*    | 473 | * —            | 55   |
| BTEX & MTBE in Water                        | 760     | 643 | <b>Q</b> 760QR | 54   |
| Diesel Range Organics in Water              | 764     | 641 | <b>Q</b> 764QR | 54   |
| Gasoline Range Organics in Water            | 762     | 640 | <b>Q</b> 762QR | 54   |
| Massachusetts EPH in Water                  | 567     | 482 | <b>Q</b> 567QR | 57   |
| Massachusetts VPH in Water                  | 566     | 481 | <b>Q</b> 566QR | 57   |
| Texas High-Level Fuels in Water             | 795     | 477 | <b>Q</b> 795QR | 56   |
| Texas Low-Level Fuels in Water              | 794     | 476 | <b>Q</b> 794QR | 56   |
| Total Petroleum Hydrocarbons (TPH) in Water | 600/601 | 642 | <b>Q</b> 602QR | 54   |
| Washington HEM/SGT-HEM                      | 519     | 489 | <b>Q</b> 519QR | 56   |
| Wisconsin DRO                               | 772     | 648 | <b>Q</b> 772QR | 56   |
| Wisconsin GRO/PVOC                          | 773     | 649 | <b>Q</b> 773QR | 56   |

\*Reference Material [RM]

### 2015 Soil PT Scheme Schedule

|          | Scheme # | Opens  | Closes |
|----------|----------|--------|--------|
| <b>Q</b> | SOIL 89  | Jan 19 | Mar 5  |
| <b>Q</b> | SOIL 90  | Apr 20 | Jun 4  |
| <b>Q</b> | SOIL 91  | Jul 20 | Sep 3  |
| <b>Q</b> | SOIL 92  | Oct 19 | Dec 3  |

Schedule subject to change – see ERA’s website at [www.eraqc.com](http://www.eraqc.com)

### 2016 Soil PT Scheme Schedule

|          | Scheme # | Opens  | Closes |
|----------|----------|--------|--------|
| <b>Q</b> | SOIL 93  | Jan 25 | Mar 10 |
| <b>Q</b> | SOIL 94  | Apr 18 | Jun 2  |
| <b>Q</b> | SOIL 95  | Jul 25 | Sep 8  |
| <b>Q</b> | SOIL 96  | Oct 17 | Dec 1  |

Schedule subject to change – see ERA’s website at [www.eraqc.com](http://www.eraqc.com)

**CRM** – Certified Reference Material

**PT** – Proficiency Testing

**QR** – QuiK Response

All ERA UST PTs open quarterly (**Q**) unless otherwise noted.

\* ERA Alaska PTs are available at any time. ERA New Jersey EPH in Soil PT studies open in April and October.

| Description                                | CRM     | PT  | QR             | Page |
|--|---------|-----|----------------|------|
| Alaska BTEX in Soil                        | 636*    | 470 | * —            | 55   |
| Alaska DRO in Soil                         | 637*    | 471 | * —            | 55   |
| Alaska GRO in Soil                         | 635*    | 469 | * —            | 55   |
| Alaska RRO in Soil                         | 638*    | 472 | * —            | 55   |
| Arizona TPH in Soil                        | 798     | 488 | <b>Q</b> 798QR | 55   |
| BTEX & MTBE in Soil                        | 761     | 633 | <b>Q</b> 761QR | 54   |
| Diesel Range Organics in Soil              | 765     | 631 | <b>Q</b> 765QR | 54   |
| Gasoline Range Organics in Soil            | 763     | 630 | <b>Q</b> 763QR | 54   |
| Massachusetts EPH in Soil                  | 569     | 484 | <b>Q</b> 569QR | 57   |
| Massachusetts VPH in Soil                  | 568     | 483 | <b>Q</b> 568QR | 57   |
| New Jersey EPH in Soil                     | 564     | 464 | * 564QR        | 57   |
| Texas High-Level Fuels in Soil             | 797     | 479 | <b>Q</b> 797QR | 56   |
| Texas Low-Level Fuels in Soil              | 796     | 478 | <b>Q</b> 796QR | 56   |
| Total Petroleum Hydrocarbons (TPH) in Soil | 570/571 | 632 | <b>Q</b> 572QR | 54   |

\*Reference Material [RM]

### QuiK Response PT

Need PT results fast? Available 52 weeks a year, QuiK Response PTs are on demand PTs that return final results within minutes of submitting your data online. In the US, please call ERA customer service at 800-372-0122 or 303-431-8454 to order. Outside of the US, please contact your authorized ERA sales partner to order.

All ERA UST PTs open quarterly (**Q**) unless otherwise noted.

## UST IN SOIL

### BTEX & MTBE in Soil

|                         |                          |                          |
|-------------------------|--------------------------|--------------------------|
| <b>CRM</b><br>Cat. #761 | <b>PT Q</b><br>Cat. #633 | <b>QR</b><br>Cat. #761QR |
|-------------------------|--------------------------|--------------------------|

One 2 mL flame-sealed ampule requires spiking onto the ten grams of provided certified clean soil. Includes all the BTEX compounds and MTBE at 20-200 µg/kg (40-400 µg/kg for Total Xylenes). Use with EPA method 8021, or other applicable methods.

### Gasoline Range Organics (GRO) in Soil

|                         |                          |                          |
|-------------------------|--------------------------|--------------------------|
| <b>CRM</b><br>Cat. #763 | <b>PT Q</b><br>Cat. #630 | <b>QR</b><br>Cat. #763QR |
|-------------------------|--------------------------|--------------------------|

One flame-sealed ampule with 20 g of soil spiked with unleaded regular gasoline in the range 100-2,000 mg/kg. Use with purge and trap and modified EPA 8015, or other applicable GC/FID methods. Also use to test for BTEX in gasoline.

### Diesel Range Organics (DRO) in Soil

|                         |                          |                          |
|-------------------------|--------------------------|--------------------------|
| <b>CRM</b><br>Cat. #765 | <b>PT Q</b><br>Cat. #631 | <b>QR</b><br>Cat. #765QR |
|-------------------------|--------------------------|--------------------------|

One flame-sealed ampule with 20 g of soil spiked with #2 Diesel fuel in the range 300-3,000 mg/kg. Use with modified EPA 8015, or other applicable GC/FID methods.

### Total Petroleum Hydrocarbons (TPH) in Soil

|                         |                          |                          |
|-------------------------|--------------------------|--------------------------|
| <b>CRM</b><br>Cat. #570 | <b>PT Q</b><br>Cat. #632 | <b>QR</b><br>Cat. #572QR |
|-------------------------|--------------------------|--------------------------|

One screw-top bottle with 50 g of soil to be analyzed for total petroleum hydrocarbons (TPH). Use with EPA IR, gravimetric methods 8440 and 9071B, or other applicable methods.

Non-polar Extractable Material (TPH) (Gravimetric).....300-3,000 mg/kg  
Non-polar Extractable Material (TPH) (IR) .....300-3,000 mg/kg

### Total Petroleum Hydrocarbons (TPH) in Soil

|                         |                          |                          |
|-------------------------|--------------------------|--------------------------|
| <b>CRM</b><br>Cat. #571 | <b>PT Q</b><br>Cat. #632 | <b>QR</b><br>Cat. #572QR |
|-------------------------|--------------------------|--------------------------|

One screw-top bottle contains 50 g of soil with TPH in the presence of interfering fatty acids. Use with EPA methods 8440, 9071B, or other applicable methods.

Non-polar Extractable Material (TPH) (Gravimetric).....300-3,000 mg/kg  
Non-polar Extractable Material (TPH) (IR) .....300-3,000 mg/kg

## UST IN WATER

### BTEX & MTBE in Water

|                         |                          |                          |
|-------------------------|--------------------------|--------------------------|
| <b>CRM</b><br>Cat. #760 | <b>PT Q</b><br>Cat. #643 | <b>QR</b><br>Cat. #760QR |
|-------------------------|--------------------------|--------------------------|

One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution. Use with EPA methods 602, 8021, or other applicable methods. Includes all BTEX compounds and MTBE at 5-300 µg/L after dilution.

### Gasoline Range Organics (GRO) in Water

|                         |                          |                          |
|-------------------------|--------------------------|--------------------------|
| <b>CRM</b><br>Cat. #762 | <b>PT Q</b><br>Cat. #640 | <b>QR</b><br>Cat. #762QR |
|-------------------------|--------------------------|--------------------------|

One 2 mL flame-sealed ampule yields up to 2 liters after dilution. Use with both purge and trap, and modified EPA 8015, or other applicable GC/FID methods to test for GRO at 400-4,000 µg/L. Also use to test for BTEX in gasoline.

### Diesel Range Organics (DRO) in Water

|                         |                          |                          |
|-------------------------|--------------------------|--------------------------|
| <b>CRM</b><br>Cat. #764 | <b>PT Q</b><br>Cat. #641 | <b>QR</b><br>Cat. #764QR |
|-------------------------|--------------------------|--------------------------|

One 2 mL flame-sealed ampule yields up to 2 liters after dilution. Use with modified EPA 8015, or other applicable GC/FID methods. Includes #2 Diesel at 800-6,000 µg/L.

### Total Petroleum Hydrocarbons (TPH) in Water

|                         |                          |                          |
|-------------------------|--------------------------|--------------------------|
| <b>CRM</b><br>Cat. #600 | <b>PT Q</b><br>Cat. #642 | <b>QR</b><br>Cat. #602QR |
|-------------------------|--------------------------|--------------------------|

One liter whole-volume bottle is ready to analyze for total petroleum hydrocarbons (TPH) without interfering fatty acids. Use with EPA methods 418.1, 1664, 5520, or other applicable methods.

Total Petroleum Hydrocarbons.....20-200 mg/L

### Total Petroleum Hydrocarbons (TPH) in Water

|                         |                          |                          |
|-------------------------|--------------------------|--------------------------|
| <b>CRM</b><br>Cat. #601 | <b>PT Q</b><br>Cat. #642 | <b>QR</b><br>Cat. #602QR |
|-------------------------|--------------------------|--------------------------|

One liter whole-volume bottle is ready to analyze for TPH in water in the presence of interfering fatty acids. Use with EPA methods 418.1, 1664, 5520, 8440, or other applicable methods.

Total Petroleum Hydrocarbons.....20-200 mg/L

## ALASKA UST IN WATER

### Alaska GRO in Water

**RM**

Cat. #645

**PT\***

Cat. #473

One 2 mL flame-sealed ampule. Use with method AK101 for unleaded regular gasoline at 100-500 µg/L after dilution.

### Alaska DRO in Water

**RM**

Cat. #647

**PT\***

Cat. #475

One 2 mL flame-sealed ampule. Use with method AK102 for No. 2 Diesel at 800-2,300 µg/L after dilution.

### Alaska BTEX in Water

**RM**

Cat. #646

**PT\***

Cat. #474

One 2 mL flame-sealed ampule. Use with method AK101 for all BTEX analytes at 5-30 µg/L after dilution.

\* ERA Alaska USTPTs are available at any time.

## ALASKA UST IN SOIL

### Alaska GRO in Soil

**RM**

Cat. #635

**PT\***

Cat. #469

One 20 mL flame-sealed ampule with 10 g of soil and 10 mL of methanol with unleaded regular gasoline at 30-1,500 mg/kg. Use with method AK101.

### Alaska DRO in Soil

**RM**

Cat. #637

**PT\***

Cat. #471

One flame-sealed ampule with 20 g of soil spiked with No. 2 Diesel fuel at 30-1,500 mg/kg. Use with method AK102.

### Alaska RRO in Soil

**RM**

Cat. #638

**PT\***

Cat. #472

One flame-sealed ampule with 20 g of soil with Residual Range Organic fuels at 150-2,000 mg/kg. Use with method AK103.

### Alaska BTEX in Soil

**RM**

Cat. #636

**PT\***

Cat. #470

One 2 mL flame-sealed ampule along with clean soil matrix for spiking. Use with method AK101 for all BTEX analytes at 5-100 mg/kg after spiking.

## ARIZONA UST IN SOIL

### Arizona TPH in Soil

**CRM**

Cat. #798

**PT<sup>Q</sup>**

Cat. #488

**QR**

Cat. #798QR

One ready-to-use flame-sealed ampule with 30 g of soil with Oil Range Organics and No. 2 Diesel fuel. Use with method 8015AZ for TPH in the range 300-400 mg/kg. Also includes two carbon ranges.

The Industry Standard



All ERA UST PTs open quarterly (Q) unless otherwise noted.

## TEXAS TPH IN WATER

All Texas TPH PT standards are designed for use with TNRC 1005 method. The standards meet the requirements of all states that accredit for these methods including Texas, Louisiana, and Oklahoma.

### Texas Low-Level Fuels (TPH) in Water

| CRM       | PT Q      | QR          |
|-----------|-----------|-------------|
| Cat. #794 | Cat. #476 | Cat. #794QR |

One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution. Contains unleaded regular gasoline and No. 2 Diesel Fuel resulting in TPH in the range 5-10 mg/L.

### Texas High-Level Fuels (TPH) in Water

| CRM       | PT Q      | QR          |
|-----------|-----------|-------------|
| Cat. #795 | Cat. #477 | Cat. #795QR |

One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution. Contains unleaded regular gasoline and No. 2 Diesel Fuel resulting in TPH in the range 20-100 mg/L.

## TEXAS TPH IN SOIL

### Texas Low-Level Fuels (TPH) in Soil

| CRM       | PT Q      | QR          |
|-----------|-----------|-------------|
| Cat. #796 | Cat. #478 | Cat. #796QR |

One ready-to-use flame-sealed ampule with 20 g of soil with unleaded gasoline and No. 2 Diesel Fuel for TPH in the range 50-100 mg/kg.

### Texas High-Level Fuels (TPH) in Soil

| CRM       | PT Q      | QR          |
|-----------|-----------|-------------|
| Cat. #797 | Cat. #479 | Cat. #797QR |

One ready-to-use flame-sealed ampule with 20 g of soil with unleaded gasoline and No. 2 Diesel Fuel for TPH in the range 1,000-20,000 mg/kg.

## WISCONSIN GRO/PVOC/DRO METHOD UST

All Wisconsin UST PT standards are designed for use with Wisconsin GRO/PVOC or DRO methods. The standards meet the requirements of all states that accredit for these methods including Wisconsin and Minnesota.

### Wisconsin Gasoline Range Organics (GRO/PVOC) in Water

| CRM       | PT Q      | QR          |
|-----------|-----------|-------------|
| Cat. #773 | Cat. #649 | Cat. #773QR |

One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution. Includes ten gasoline range synthetic organic compounds as defined by Wisconsin. Use with Wisconsin GRO/PVOC method.

### Wisconsin Diesel Range Organics (DRO) in Water

| CRM       | PT Q      | QR          |
|-----------|-----------|-------------|
| Cat. #772 | Cat. #648 | Cat. #772QR |

One 2 mL flame-sealed ampule yields up to 2 liters after dilution. Includes ten Diesel range synthetic organic compounds in the range 200-600 µg/L. Use with the Wisconsin DRO method.

## WASHINGTON HEM/SGT-HEM METHOD UST

The Washington UST PT standard is designed for use with EPA Method 1664 for HEM/SGT-HEM.

### Washington HEM/SGT-HEM

| CRM       | PT Q      | QR          |
|-----------|-----------|-------------|
| Cat. #519 | Cat. #489 | Cat. #519QR |

One 5 mL flame-sealed ampule yields up to 2 liters after dilution. Use with EPA method 1664 to measure HEM/SGT-HEM at 5-100 mg/L.

## NEW JERSEY EPH

The New Jersey EPH in Soil standard is designed for use with the NJ Extractable Petroleum Hydrocarbons method.

### New Jersey EPH in Soil

| CRM       | PT*       | QR          |
|-----------|-----------|-------------|
| Cat. #564 | Cat. #464 | Cat. #564QR |

One flame-sealed ampule with 20 g soil containing EPH in the range of 300-3000 mg/kg.

\* The NJ EPH in Soil PT studies open in April and October.



## MASSACHUSETTS HYDROCARBONS IN WATER

All Massachusetts UST PT standards are designed for use with Massachusetts Volatile Petroleum Hydrocarbon or Extractable Petroleum Hydrocarbon methods. The standards meet the requirements of all states that accredit for these methods including Massachusetts, North Carolina, and Washington when reporting the Massachusetts carbon ranges.

### Massachusetts VPH in Water

| CRM       | PT Q      | QR          |
|-----------|-----------|-------------|
| Cat. #566 | Cat. #481 | Cat. #566QR |

One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution. Contains volatile petroleum hydrocarbon fuels (VPH) in the range 400-4,000 µg/L. Use with the Massachusetts Volatile Petroleum Hydrocarbon method for multiple carbon ranges, BTEX compounds and MTBE.

### Massachusetts EPH in Water

| CRM       | PT Q      | QR          |
|-----------|-----------|-------------|
| Cat. #567 | Cat. #482 | Cat. #567QR |

One 2 mL flame-sealed ampule yields up to 2 liters after dilution. Contains extractable petroleum hydrocarbon fuels (EPH) in the range 800-6,000 µg/L. Use with the Massachusetts Extractable Petroleum Hydrocarbon method for multiple carbon ranges and PAH compounds.

## MASSACHUSETTS HYDROCARBONS IN SOIL

### Massachusetts VPH in Soil

| CRM       | PT Q      | QR          |
|-----------|-----------|-------------|
| Cat. #568 | Cat. #483 | Cat. #568QR |

One flame-sealed ampule with 20 g soil with VPH fuels. Contains volatile petroleum hydrocarbon fuels (VPH) in the range 100-2,000 mg/kg. Use with the Massachusetts Volatile Petroleum Hydrocarbon method for multiple carbon ranges, BTEX compounds and MTBE.

### Massachusetts EPH in Soil

| CRM       | PT Q      | QR          |
|-----------|-----------|-------------|
| Cat. #569 | Cat. #484 | Cat. #569QR |

One flame-sealed ampule with 20 g soil with EPH fuels. Contains extractable petroleum hydrocarbon fuels (EPH) in the range 300-3,000 mg/kg. Use with the Massachusetts Extractable Petroleum Hydrocarbon method for multiple carbon ranges and PAH compounds.

All ERA UST PTs open quarterly (Q) unless otherwise noted.