



Iowa Department of Natural Resources  
Single Use Landfarm (PCS) Permit Inspection Form

Permit No: \_\_\_\_\_ -SDP- \_\_\_\_\_ - \_\_\_\_\_ P-PCS

Facility Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_ County: \_\_\_\_\_

Responsible Official: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_ County: \_\_\_\_\_

Person(s) Present: 1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_

Date of This Inspection: \_\_\_\_\_ Date of Last Inspection: \_\_\_\_\_

\*Be advised your facility may require, due to either SIC code or onsite management practices, an NPDES General Permit #1 (Stormwater permit).

**Petroleum Contaminated Soil (PCS) Analysis - IAC 567 Chapter 102.205**

|                                                                                                                                                                                                                                                             | Yes                      | No                       | NA                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|
| Was the PCS analyzed for the following constituents: (102.205(3))                                                                                                                                                                                           |                          |                          |                          |
| • <b>BTEX Testing</b> – benzene, toluene, ethylbenzene, and xylene                                                                                                                                                                                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • <b>TEH-diesel Testing</b> – total extractable hydrocarbons                                                                                                                                                                                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • <b>Total RCRA Metals Testing</b> – Resource Conservation and Recovery Act Metals must be analyzed for if the history of the petroleum contaminated site included solvents, batteries, leaded fuel, waste oil, or a gas station in operation prior to 1985 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Comments

**Site Exploration and Suitability Requirements - IAC 567 Chapter 102.206**

|                                                                                                                                                                                                        | Yes                      | No                       | NA                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|
| Does the single use landfarm applicator have written confirmation from the site owner for one of the following: (102.206(1))                                                                           |                          |                          |                          |
| • That any other landfarm created in the past three years within 15 feet of the proposed operating area has been closed pursuant to rule 567 - 102.211(455B)                                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • That no area within 15 feet of the proposed operating area has been used as a landfarm in the past three years<br>(Note: This rule does not apply for a landfarm utilized prior to October 20, 2004) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Has PCS been stored or landfarmed within 500 feet from a well (including agricultural drainage wells)? (102.206(2))                                                                                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Has PCS been stored or landfarmed within 500 feet of a sinkhole? (102.206(3))                                                                                                                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Has PCS been stored or landfarmed within 200 feet of a stream, lake, pond, wetland, or other                                                                                                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

|                                                                                                                                                                                                                          | Yes                      | No                       | NA                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|
| surface water of the state? (102.206(4)) (Note: The setback requirement may be waived if the surface water has been constructed for pollution control purposes)                                                          |                          |                          |                          |
| Has PCS been stored or landfarmed within 200 feet of a tile line surface intake? (102.206(5))                                                                                                                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Has PCS been stored or landfarmed within 200 feet of an occupied residence, recreational area, child care facility, educational facility, or health care facility? (102.206(6))                                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Has PCS been stored or landfarmed within the 100 year flood plain? (102.206(7))                                                                                                                                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Has PCS been stored or landfarmed on slopes greater than 5 percent? (102.206(8))                                                                                                                                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Do the soils in the operating area of the single use landfarm consists one or more of the following: (102.206(9)“a”)                                                                                                     |                          |                          |                          |
| <ul style="list-style-type: none"> <li>Clay, sandy clay, sandy clay loam, sandy loam, silty clay, silt clay loam, clay loam, loam, or silt loam as classified by USDA Textural Classification Chart for soils</li> </ul> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Are soils in the operating area free of stones and debris larger than 4 inches in diameter? (102.206(9)“b”)                                                                                                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Do soils in the operating area have a pH greater than or equal to 6 and less than or equal to 9? (102.206(9)“c”)                                                                                                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Does the landfarm operating area have a minimum of 6 feet of soil over bedrock? (102.206(9)“d”)                                                                                                                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Comments

#### Landfarm Design Requirements - IAC 567 Chapter 102.207

|                                                                                                                                                                                           | Yes                      | No                       | NA                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|
| Have PCS storage areas (if any) been constructed in compliance with the following requirements: (102.207)                                                                                 |                          |                          |                          |
| <ul style="list-style-type: none"> <li>Over an impervious surface (e.g., tarp, concrete pad, plastic sheeting)</li> </ul>                                                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <ul style="list-style-type: none"> <li>Under a roof or tarp to minimize the infiltration of precipitation</li> </ul>                                                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <ul style="list-style-type: none"> <li>In an area with minimal potential for stormwater run-on</li> </ul>                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Have the landfarming plots being utilized been flagged pursuant to the following requirement: (108.208(8))                                                                                |                          |                          |                          |
| <ul style="list-style-type: none"> <li>Landfarming plots being utilized shall be flagged for one year after land application or until landfarm is closed, whichever is shorter</li> </ul> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Comments

#### Landfarm Operating Requirements - IAC 567 Chapter 102.208

|                                                                                                                                                                                                                                                                                                  | Yes                      | No                       | NA                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|
| Has only “Standard PCS” been landfarmed (unless a permit amendment is issued) on the plot being utilized as a single use landfarm? (102.208(1)) (Note: Standard PCS - soil contaminated with gasoline, diesel fuel, kerosene, jet fuel, motor oil, hydraulic fluid, or some combination thereof) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Has PCS that is in a saturated, slurry, or in a flammable condition been landfarmed at the single use landfarm? (102.208(3))                                                                                                                                                                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Was PCS stored (if applicable) for seven days or less during landfarm season (April 1 - October 31)? (102.208(4))                                                                                                                                                                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

|                                                                                                                                                                                                                                                                                                        | Yes                      | No                       | NA                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|
| If PCS was landfarmed outside of landfarming season, was it part of an emergency cleanup supervised by the department or did the following conditions exist: (102.208(5))                                                                                                                              |                          |                          |                          |
| • The operating area is free of snow                                                                                                                                                                                                                                                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • The slope of the operating area is less than 3 percent                                                                                                                                                                                                                                               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • The PCS is incorporated into the soil as soon as site conditions allow                                                                                                                                                                                                                               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| When the landfarming plot was utilized, was only one application of a particular source and type landfarmed? (102.208(6)) (Note: A single use landfarm may apply a subsequent application of PCS to the previously utilized landfarm plot if the plot has been closed pursuant to subrule 102.211(2).) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Did the PCS application rate comply with the following table? (102.208(7)) The average concentration of benzene shall be calculated from all soil borings test results within the PCS excavation area.                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**Table 1**

| Average concentration of benzene (mg/kg)                                                                                                                                                                                                                                                                                                                                                                                                        | Ft <sup>2</sup> of landfarm area per yd <sup>3</sup> of PCS applied | Maximum thickness of unincorporated PCS | Yd <sup>3</sup> of PCS per acre of landfarm |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------|---------------------------------------------|
| 0 < mg/kg ≤ 10                                                                                                                                                                                                                                                                                                                                                                                                                                  | 81 ft <sup>2</sup>                                                  | 4 inches                                | 537 yd <sup>3</sup>                         |
| 10 < mg/kg ≤ 20                                                                                                                                                                                                                                                                                                                                                                                                                                 | 162 ft <sup>2</sup>                                                 | 2 inches                                | 268 yd <sup>3</sup>                         |
| 20 < mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                      | 324 ft <sup>2</sup>                                                 | 1 inch                                  | 134 yd <sup>3</sup>                         |
| (Note: PCS from an emergency cleanup supervised by the department may be land applied at a rate of 2 inches thick or at a rate of 162 ft <sup>2</sup> of landfarm area per cubic yard of PCS. PCS that is not contaminated with benzene or MTBE, but is contaminated with toluene, ethylbenzene, xylene, TEH-diesel, or some combination thereof, shall be land applied at a rate of 81 ft <sup>2</sup> of landfarm area per cubic yard of PCS) |                                                                     |                                         |                                             |

|                                                                                                                                                                                                                                                                                                       | Yes                      | No                       | NA                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|
| Has solid waste that is not PCS (e.g., pipe) been removed and properly disposed of? (102.208(9)) (Note: This includes all rubble, stones, debris larger than 4 inches in diameter, or anything that interferes with incorporating and turning of the PCS)                                             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Was the PCS incorporated into the soil by tilling, disking, or other suitable means within 48 hours after it was land applied or before a precipitation event, whichever was sooner? (102.208(10)) (Note: PCS must not be incorporated deeper than 12 inches)                                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| After incorporation, was the PCS turned by tilling, disking, or other suitable means at least once per month for the first three months during landfarming season? (102.208(9))                                                                                                                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Were crops for human or livestock consumption grown within 15 feet from the utilized landfarm plot? (102.208(12)) (Note: Crops for human and livestock consumption may be grown at a single use landfarm after the landfarm plot is no longer required to be flagged pursuant to subrule 102.208(7).) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Has PCS been removed from a single use landfarm before the landfarm was closed or the following conditions were met: (102.208(13))                                                                                                                                                                    |                          |                          |                          |
| • One sample from each 2,500 ft <sup>2</sup> (e.g., 50-foot × 50-foot area) of landfarm plot is analyzed pursuant to 102.205(2)“c”(1), “c”(2), and “c”(3). A minimum of one sample per landfarm plot shall be obtained. All samples shall be obtained from between the top two to six inches of soil. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • The results of the tests in paragraph 102.211(2)“a” demonstrate that petroleum constituent concentrations for benzene, toluene, ethylbenzene, TEH-diesel, and MTBE are below the detection limits required by 567 – Chapter 135.                                                                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • Records of the lab results, amount of PCS removed, and the exact final location of the PCS shall be maintained by the landfarm.                                                                                                                                                                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Comments

**ERRAP Requirements - IAC 567 Chapter 102.209**

|                                                                                                                                                                                                                                                                                | Yes                      | No                       | NA                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|
| Is an Emergency Response and Remedial Action Plan (ERRAP) readily available? (102.209(2) (Note: Single use landfarm applicators shall have employees carry a copy of the ERRAP document to each site where operations are taking place)                                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| At a minimum, have all employees received annual training sufficient to understand and utilize ERRAP documents? (102.209(3))                                                                                                                                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Has a complete Landfarming and Storage Notification Form(s) been submitted to the department central office as well as the department field office with jurisdiction over the landfarm before receipt of PCS for storage and land application events? (102.210(1) "a" and "b") | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Has the single use landfarm agency maintained records of all information related to compliance with this chapter and the permit throughout the life of the landfarm and for three years after landfarm closure? (102.210(2))                                                   |                          |                          |                          |
| • Permit application information                                                                                                                                                                                                                                               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • PCS analysis and characterization                                                                                                                                                                                                                                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • Site suitability information                                                                                                                                                                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • Specific design requirements                                                                                                                                                                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • Operation information                                                                                                                                                                                                                                                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • ERRAP documents                                                                                                                                                                                                                                                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • Reports that were submitted to DNR                                                                                                                                                                                                                                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • Closure information                                                                                                                                                                                                                                                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Comments

**Single Use Landfarm Closure - IAC 567 Chapter 102.211**

|                                                                                                                                                                                                                                                                                                          | Yes                      | No                       | NA                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|
| If a landfarm is considered closed by the landfarming agency, has it been 3 years after the PCS was land applied or at least 6 months and the following was documented: (102.211(2))                                                                                                                     |                          |                          |                          |
| • One sample from each 10,000 ft <sup>2</sup> (e.g., 100-foot × 100-foot area) of landfarm plot is analyzed pursuant to 102.205(2)"c"(1), "c"(2), and "c"(3). A minimum of one sample per landfarm plot shall be obtained. All samples shall be obtained from between the top two to six inches of soil. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • The results from the previous paragraph demonstrate that petroleum constituent concentrations are less than 0.54 mg/kg for benzene, 42 mg/kg for toluene, 15 mg/kg for ethylbenzene, 3800 mg/kg for TEH-diesel and 0.02 mg/kg for MTBE.                                                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Comments

| Summary of Requirements | Compliance Date |
|-------------------------|-----------------|
| 1.                      |                 |
| 2.                      |                 |
| 3.                      |                 |
| 4.                      |                 |
| 5.                      |                 |

| Summary of Reminders |
|----------------------|
| 1.                   |
| 2.                   |
| 3.                   |
| 4.                   |
| 5.                   |

| Summary of Recommendations |
|----------------------------|
| 1.                         |
| 2.                         |
| 3.                         |
| 4.                         |
| 5.                         |

Inspector: \_\_\_\_\_ Date: \_\_\_\_\_

Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**Facility Photographs (if applicable) - Attach separately**