

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF: )  
 )  
REGULATION OF PETROLEUM )  
LEAKING UNDERGROUND STORAGE )  
TANKS (PROPOSED NEW 35 ILL. )  
ADM. CODE 734) )

R 09-23  
(Rulemaking - Land)

RECEIVED  
CLERKS OFFICE  
JAN 13 2004  
STATE OF ILLINOIS  
Pollution Control Board

NOTICE OF FILING

Dorothy M. Gunn, Clerk  
Illinois Pollution Control Board  
James R. Thompson Center  
100 West Randolph Street, Suite 11-500  
Chicago, Illinois 60601

Matthew Dunn, Chief  
Environmental Bureau  
Office of the Attorney General  
100 W. Randolph, 12<sup>th</sup> Floor  
Chicago, Illinois 60601

Jonathan Furr, Chief Legal Counsel  
Department of Natural Resources  
One Natural Resources Way  
Springfield, IL 62702-1271

PLEASE TAKE NOTICE that I have filed today with the Illinois Pollution Control Board the Motion for Acceptance; Appearance; Statement of Reasons, Synopsis of Testimony, and Statement Regarding Material Incorporated by Reference; and proposed 35 Ill. Adm. Code 734 by the ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, a copy of which is herewith served upon you.

ILLINOIS ENVIRONMENTAL  
PROTECTION AGENCY

By: Kyle Rominger  
Kyle Rominger  
Assistant Counsel

Dated: 1.12.04  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, Illinois 62794-9276  
(217) 782-5544

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF: )

REGULATION OF PETROLEUM )  
LEAKING UNDERGROUND STORAGE )  
TANKS (PROPOSED NEW 35 ILL. )  
ADM. CODE 734) )

R 04-23  
(Rulemaking - Land)

RECEIVED  
CLERK'S OFFICE  
JAN 13 2004  
STATE OF ILLINOIS  
Pollution Control Board

MOTION FOR ACCEPTANCE

NOW COMES the Illinois Environmental Protection Agency ("Illinois EPA") and moves, pursuant to 35 Ill. Adm. Code 102.200 and 102.202, that the Illinois Pollution Control Board ("Board") accept for hearing the Illinois EPA's proposal for the addition of a new 35 Ill. Adm. Code 734 to the Board's Leaking Underground Storage Tank rules. This proposal includes: 1) the proposed rules; 2) a Statement of Reasons, Synopsis of Testimony, and Statement Regarding Material Incorporated by Reference; 3) proof of service upon all persons required to be served pursuant to 35 Ill. Adm. Code 102.422; 4) an electronic version of the proposed amendments; and 5) an appearance for the attorneys representing the Agency.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL  
PROTECTION AGENCY

By: 

Renee Cipriano  
Director

DATED: 1-9-04

1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, IL 62794-9276  
(217) 782-3397

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF: )  
 )  
REGULATION OF PETROLEUM ) R 04-23  
LEAKING UNDERGROUND STORAGE ) (Rulemaking – Land)  
TANKS (PROPOSED NEW 35 ILL. )  
ADM. CODE 734) )

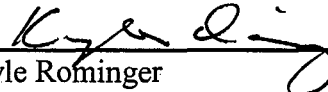
RECEIVED  
CLERK'S OFFICE  
JAN 13 2004  
STATE OF ILLINOIS  
Pollution Control Board


APPEARANCE

The undersigned hereby enter their appearance as attorneys on behalf of the Illinois  
Environmental Protection Agency.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL  
PROTECTION AGENCY

  
\_\_\_\_\_  
Kyle Rominger  
Assistant Counsel

  
\_\_\_\_\_  
Gina Roccaforte  
Assistant Counsel

Dated: 1-9-04  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, Illinois 62794-9276  
(217) 782-5544

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF: )  
 )  
REGULATION OF PETROLEUM ) R 04-23  
LEAKING UNDERGROUND STORAGE ) (Rulemaking – Land)  
TANKS (PROPOSED NEW 35 ILL. )  
ADM. CODE 734) )

RECEIVED  
CLERK'S OFFICE  
JAN 13 2004  
STATE OF ILLINOIS  
Pollution Control Board

**STATEMENT OF REASONS, SYNOPSIS OF TESTIMONY, AND STATEMENT  
REGARDING MATERIAL INCORPORATED BY REFERENCE**

NOW COMES the Illinois Environmental Protection Agency ("Illinois EPA") and, pursuant to 35 Ill. Adm. Code 102.202, submits its Statement of Reasons, Synopsis of Testimony, and Statement Regarding Material Incorporated by Reference for the above referenced proceeding.

**I. STATEMENT OF REASONS**

**A. Facts in Support, Purpose and Effect**

**1. Background**

In this proposal the Illinois EPA submits a proposed new 35 Ill. Adm. Code 734 ("Part 734") as an addition to the Illinois Pollution Control Board ("Board") rules governing the Leaking Underground Storage Tank ("LUST") Program. The proposed Part 734 is applicable to petroleum underground storage tank ("UST") releases reported on or after June 24, 2002, the effective date of Public Act 92-0554, and is identical in substance to 35 Ill. Adm. Code 732 ("Part 732"), as amended in the concurrent Part 732 proposal, except for changes enacted in Public Act 92-0554. Those changes are different corrective action requirements and increased caps on the total amount owners and operators can be paid from the Underground Storage Tank

Fund ("UST Fund"). The following is a table showing the locations of similar provisions in Parts 734 and Part 732.

PART 734

PART 732

734.100	732.100
734.105	732.101
734.110	732.102
734.115	732.103
734.120	732.104
734.125	732.105
734.130	732.108
734.135	732.110
734.200	732.200
734.205	732.201
734.210	732.202
734.215	732.203
734.220	732.204
734.340	732.407
734.350	732.411
734.355(b) and (c)	732.405(f)
734.405	732.310
734.410	732.408
734.415	732.307(j)(5)(A) and (C)
734.420	732.106
734.425	732.307(c)(1)(E) and (G), 732.308
734.430	732.307(j)(3) through (5)
734.435	732.308(b)
734.440	732.110(a)(1)
734.445	732.307(f), 732.309(a), 732.404(e)(1), and 732.409(a)(2)
734.450	732.306 and 732.406
734.500	732.500
734.505	732.503
734.510	732.505
734.600	732.600
734.605	732.601
734.610	732.602
734.615	732.603

734.620	732.604
734.625	732.605
734.630	732.606
734.635	732.607
734.640	732.608
734.645	732.609
734.650	732.610
734.655:	732.611
734.660	732.612
734.665	732.614

734.700	732.700
734.705	732.701
734.710	732.702
734.715	732.703
734.720	732.704

734.800	732.800
734.810	732.810
734.815	732.815
734.820	732.820
734.825	732.825
734.830	732.830
734.835	732.835
734.840	732.840
734.845	732.845
734.850	732.850
734.855	732.855
734.860	732.860
734.865	732.865

734.APPENDIX A	732.APPENDIX A
734.APPENDIX B	732.APPENDIX B
734.APPENDIX C	732.APPENDIX C
734.APPENDIX D	732.APPENDIX D
734.APPENDIX E	732.APPENDIX E

Concurrent with this proposal the Illinois EPA is submitting a separate proposal for the amendment of Part 732. Because Parts 732 and 734 both apply to UST releases and their applicability depends only upon the date the release was reported, or whether the UST owner or operator elects to proceed under Part 734, the Illinois EPA respectfully requests that the docket

for this proposal and the Part 732 proposal be combined.

## **2. Regulatory Development**

The Illinois EPA developed the proposed regulations with input from the regulated community. The amendments in response to Public Acts 92-0554 and 92-0735 were initially drafted by an Illinois EPA workgroup and then distributed to members of the Illinois Environmental Regulatory Group, the Illinois Petroleum Marketers Association, and the Illinois Petroleum Council for comment. Meetings have been held with these groups to discuss the amendments, and changes to the amendments have been made as a result of the meetings. In addition, the Illinois EPA met with the following parties during its development of the proposed rules relating to payment from the UST Fund: the Consulting Engineers Council of Illinois, the Illinois Petroleum Contractors Association, and the Illinois Association of Environmental Laboratories. Comments received from members of these parties were used in the development of proposed Subpart H. The Illinois EPA believes it has addressed most of the concerns brought to its attention. However, some outstanding issues may remain. Items that may generate discussion in this rulemaking include the following:

- a. Quantifying the amount of free product that triggers the free product removal requirements.
- b. The staged site investigation, as proposed in Subpart C.
- c. Provisions relating to elections to defer response activities.
- d. The proposed deadline for submitting applications for payment from the UST Fund (one year after the issuance of a No Further Remediation Letter).
- e. Various additions to the list of costs ineligible for payment from the UST Fund.

- f. The auditing provisions in Section 734.665.
- g. Issues related to Subpart H, including, but not limited to, the proposed maximum payment amounts and payment by lump sums or unit rates.

### **3. Description of the Proposed Regulations**

As discussed above, most of Part 734 is identical in substance to Part 732, as amended in the concurrent Part 732 proposal. Therefore, for economy, this section identifies provisions in Part 732, as amended, that correspond to provisions in Part 734 and provides a detailed discussion of only the Part 734 provisions that do not have a corresponding Part 732 provision.

#### Subpart A: General

Section 734.100 – Applicability. 35 Ill. Adm. Code 734.100 (“Section 734.100”) is based upon 35 Ill. Adm. Code 732.100 (“Section 732.100”), except that Section 734.100 makes Part 734 applicable to UST releases reported on or after June 24, 2002, the effective date of Public Act 92-0554, and to persons receiving a corrective action order from the Office of the State Fire Marshal on or after that date. The applicability dates of Section 734.100 dovetail with the applicability dates of Section 732.100. Section 732.100(b), similar to proposed Section 732.100(e), notes that owners and operators with releases reported prior to June 24, 2002, may elect to proceed in accordance with Part 734.

Section 734.105 – Election to Proceed under Part 734. Section 734.105 is based upon Section 732.101, and sets forth the procedural requirements for elections to proceed under Part 734. Section 734.105(c) requires an owner or operator electing to proceed under Part 734 to submit a summary of the Part 734 requirements the owner or operator has already satisfied. This summary is required to help the Illinois EPA determine which requirements of Part 734 the owner or operator still needs to complete. Section 734.105(e) notes that a person that has already



received a No Further Remediation Letter for a particular release may not elect to proceed under Part 734 with respect to that release.

Section 734.110 – Severability. Section 734.110 is identical to Section 732.102

Section 734.115 – Definitions. Section 734.115 is identical to Section 732.103.

Section 734.120 – Incorporations by Reference. Section 734.120 is identical to Section 732.104.

Section 734.125 – Agency Authority to Initiate Investigate, Preventive, or Corrective Action. Section 734.125 is identical to Section 732.105.

Section 734.130 – Licensed Professional Engineer or Licensed Professional Geologist Supervision. Section 734.100 is based upon Section 732.108.

Section 734.135 – Form and Delivery of Plans, Budgets, and Reports; Signatures and Certifications. Section 734.135 is based upon Section 732.110. In Part 734, the minimum map requirements added in Section 732.100(a) are found in Section 734.440.

#### Subpart B: Early Action

Section 734.200 – General. Section 734.200 is identical to Section 732.200.

Section 734.205 – Agency Authority to Initiate. Section 734.205 is identical to Section 732.201.

Section 734.210 – Early Action. Section 734.210 is identical to Section 732.202.

Section 734.215 – Free Product Removal. Section 734.215 is identical to Section 732.203.

Section 734.220 – Application for Payment of Early Action Costs. Section 734.220 is identical to Section 732.204.

### Subpart C: Site Investigation and Corrective Action

Section 734.300 – General. Section 734.300 is based upon Section 732.300(a). Part 734 does not contain provisions corresponding to Sections 732.300(b) and (c), which provide an alternative to site classification and classification based remediation requirements, because Part 734 does not require site classification and classification based remediation.

Section 734.305 – Agency Authority to Initiate. Section 734.305 is identical to Section 732.301.

Section 734.310 – Site Investigation – General. The first paragraph of Section 734.310 explains that site investigation shall proceed in three stages, as set forth in Section 734.315 through 734.325. If the extent of contamination exceeding the applicable remediation objectives is fully defined after completing any of the stages, the owner or operator must skip the remaining stages of the site investigation and proceed directly to the submission of a site investigation completion report under Section 734.330. Sections 734.310(a) through (e) are based upon Sections 732.305(a) through (e), excluding Section 732.305(c) which is not repeated due to its redundancy with provisions in Subpart E.

Section 734.315 – Stage 1 Site Investigation. Section 734.315 sets forth the requirements for the Stage 1 site investigation, which is designed to gather initial information on the extent of contamination. Section 734.315(a)(1) requires the collection of soil samples from borings drilled 15 feet out from early action soil samples that exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants (“Tier 1 remediation objectives”). Section 734.315(a)(2)(A) requires a groundwater investigation under certain circumstances, which are taken from Sections 732.202(h)(4) and 732.300(b)(2). If a groundwater investigation is required, Section 734.315(a)(2)(B) requires the installation of five

groundwater monitoring wells: one where groundwater contamination is most likely to be present and the remaining four installed at the property boundaries or 200 feet from the UST system, whichever is less. Section 734.315(a)(2)(B) further requires the collection of soil samples from groundwater monitoring well installation borings that are located beyond early action soil samples that exceed the Tier 1 remediation objectives. In addition to the initial soil and groundwater investigations, Section 734.315(a)(3) requires an initial water supply well survey in accordance with Section 734.445(a).

Section 734.315(b) requires the Stage 1 site investigation plan to consist of a certification signed by the owner or operator and by a Licensed Professional Engineer or Licensed Professional Geologist. A certification is required for ease of administration because the Stage 1 site investigation is the same for all sites. If none of the samples collected as part of the Stage 1 site investigation exceed the Tier 1 remediation objectives, Section 734.315(c) directs the owner or operator to submit a site investigation completion report. If one or more samples exceed the Tier 1 remediation objectives, Section 734.315(c) directs the owner or operator to Stage 2 of the site investigation.

Section 734.320 – Stage 2 Site Investigation. Section 734.320 sets forth the requirements for defining the remaining extent of on-site contamination that exceeds the Tier 1 remediation objectives. Section 734.320(a) requires additional soil borings and groundwater monitoring wells to the extent necessary to define the extent of on-site contamination that exceeds the Tier 1 remediation objectives. Section 734.320(b) sets forth the requirements for the Stage 2 site investigation plan, which must include the results of the Stage 1 site investigation as well activities proposed for Stage 2 of the site investigation.

If the owner or operator does not propose additional on-site investigation in the Stage 2

site investigation plan and contamination exceeding the Tier 1 remediation objectives does not extend off-site (i.e., Stage 1 samples exceed the Tier 1 remediation objectives but no additional investigation is needed to define the extent of contamination exceeding the Tier 1 remediation objectives), Section 734.320(c) requires the owner or operator to proceed with the submission of a site investigation completion report. If the owner or operator does not propose additional on-site investigation in the Stage 2 site investigation plan but contamination exceeding the Tier 1 remediation objectives extends off-site (i.e., Stage 1 sampling is adequate to define the extent of on-site contamination that exceeds the Tier 1 remediation objectives), Section 734.320(c) requires the owner or operator to submit a Stage 3 site investigation plan.

If the results of a Stage 2 site investigation indicate that contamination exceeding the Tier 1 remediation objectives does not extend off-site, Section 734.320(d) directs the owner or operator to proceed with the submission of a site investigation completion report. If the results of a Stage 2 site investigation indicate that contamination exceeding the Tier 1 remediation objectives extends off-site, Section 734.320(d) requires the owner or operator to submit a Stage 3 site investigation plan.

Section 734.325 – Stage 3 Site Investigation. Section 734.325 sets forth the requirements for defining the extent of off-site contamination that exceeds the Tier 1 remediation objectives. Section 734.325(a) requires additional soil borings and groundwater monitoring wells to the extent necessary to define the extent of off-site contamination exceeding the Tier 1 remediation objectives. Section 734.325(b) sets forth the requirements for the Stage 3 site investigation plan, which must include the results of the Stage 2 site investigation as well as activities proposed for Stage 3 of the site investigation. Section 734.325(c) requires owners and operators to proceed with the submission of a site investigation completion report after the Stage

3 site investigation is complete.

Section 734.330 – Site Investigation Completion Report. Section 734.330 prescribes the contents of the site classification completion report.

Section 734.335 – Corrective Action Plan. Section 734.335(a) prescribes the contents of the corrective action plan, which is required if any of the applicable indicator contaminants exceed their Tier 1 remediation objectives. Sections 734.335(b), (d), and (e) are based upon Sections 732.405(b), (d), and (e).

Section 734.340 – Alternative Technologies. Section 734.340 is identical to 732.407.

Section 734.345 – Corrective Action Completion Report. Section 734.345(a) prescribes the contents of the corrective action completion report. Section 734.345(b) is identical to 732.404(c).

Section 734.350 – Off-site Access. Section 734.350 is identical to Section 732.411.

Section 734.355 – Status Report. Sections 734.355(a) and (b) are taken from the Environmental Protection Act. Sections 734.355 (b) and (c) are similar to Section 732.405(f).

#### Subpart D: Miscellaneous Provisions

Section 734.400 – General. Section 734.400 explains that the provisions of Subpart D apply to all activities conducted under Part 734 and all plans, budgets, and reports submitted under Part 734.

Section 734.405 – Indicator Contaminants. Section 734.405 is identical to Section 732.310.

Section 734.410 – Remediation Objectives. Section 734.410 is based upon Section 732.408.

Section 734.415 – Data Quality. Section 734.415 is based upon Sections 732.307(j)(5)(A) and (C).

Section 734.420 – Laboratory Certification. Section 734.420 is identical to Section 732.106.

Section 734.425 – Soil Borings. Sections 734.425(a) and (b) are identical to Sections 732.307(c)(1)(E) and (G). Section 734.425(c) is identical to Sections 732.308(a)(1) and (a)(2)(C).

Section 734.430 – Monitoring Well Construction and Sampling. Section 734.430 is based upon Sections 732.307(j)(3) through (5).

Section 734.435 – Sealing of Soil Borings and Groundwater Monitoring Wells. Section 734.435 is identical to Section 732.308(b).

Section 734.440 – Site Map Requirements. Section 734.440 sets forth the basic requirements for all site maps. It is identical to 732.110(a)(1).

Section 734.445 – Water Supply Well Survey. Section 734.445 contains water supply well survey requirements. Section 734.445(a) sets forth the minimum requirements for the initial water supply well survey performed as part of the Stage 1 site investigation (see 734.315(a)(3)). The Section is identical to Section 732.307(f). Sections 734.445(b) and (c) address additional water supply well survey activities that may be required, depending upon site specific circumstances. Sections 734.445(b) and (c) are identical to Section 732.404(e)(1). Section 734.445(d) sets forth water supply well survey documentation that must be submitted in site investigation plans, site investigation completion reports, and corrective action completion reports (see 734.320(b)(3)(G), 734.330(b)(8), and 734.345(a)(7)). Section 734.445(d) is identical to Sections 732.309(a) and 732.409(a)(2).

Section 734.450 – Deferred Site Investigation or Corrective Action; Priority List for Payment. Section 734.450 is identical to Sections 732.306 and 732.406.

Subpart E: Review of Plans, Budgets, and Reports

Section 734.500 – General. Section 734.500 is identical to Section 732.500.

Section 734.505 – Review of Plans, Budgets, or Reports. Section 734.505 is identical to Section 732.503.

Section 734.510 – Standards for Review of Plans, Budgets, or Reports. Section 734.510 is identical to Section 732.505(a) and (c).

Subpart F: Payment from the Fund

Section 734.600 – General. Section 734.600 is identical to Section 732.600.

Section 734.605 – Applications for Payment. Section 734.605 is identical to Section 732.601.

Section 734.610 – Review of Applications for Payment. Section 734.610 is identical to Section 732.602.

Section 734.615 – Authorization for Payment; Priority List. Section 734.615 is identical to Section 732.603.

Section 734.620 – Limitations on Total Payments. Section 734.620 contains statutory language enacted by Public Act 92-0554 that sets forth the increased limitations on payments from the UST Fund. The Section is identical to Section 732.604, except for the caps on the amounts that may be paid.

Section 734.625 – Eligible Costs. Section 734.625 is identical to Section 732.605.

Section 734.630 – Ineligible Costs. Section 734.630 is identical to Section 732.606, except to the extent that there are differences in the corrective action requirements of Part 732.

and Part 734.

Section 734.635 – Payment for Handling Charges. Section 734.635 is identical to Section 732.607.

Section 734.640 – Apportionment of Costs. Section 734.640 contains statutory language and is identical to Section 732.608.

Section 734.645 – Subrogation of Rights. Section 734.645 contains statutory language and is identical to Section 732.609.

Section 734.650 – Indemnification. Section 734.650 is identical to Section 732.610.

Section 734.655 – Costs Covered by Insurance, Agreement, or Court Order. Section 734.655 contains statutory language and is identical to Section 732.611.

Section 734.660 – Determination and Collection of Excess Payments. Section 734.660 is identical to Section 732.612.

Section 734.665 – Audits and Access to Records; Records Retention. Section 734.665 contains statutory language and is identical to Section 732.614.

Subpart G: No Further Remediation Letters and Recording Requirements

Section 734.700 – General. Section 734.700 is identical to Section 732.700.

Section 734.705 – Issuance of a No Further Remediation Letter. Section 734.705 is identical to Section 732.701, except for the differences in the final reports submitted under Parts 732 and 734.

Section 734.710 – Contents of No Further Remediation Letters. Section 734.710 is identical to Section 732.702.

Section 734.715 – Duty to Record a No Further Remediation Letter. Section 734.715 is identical to Section 732.703.



Section 734.720 – Voidance of a No Further Remediation Letter. Section 734.720 is identical to Section 732.704.

#### Subpart H: Maximum Payment Amounts

Except for the differences between Sections 734.845 and 732.845 (Professional Consulting Services) due to differences in corrective action and reporting requirements, Subpart H in Part 734 is identical to Subpart H in Part 732.

#### Appendices

The Appendices in Part 734 are identical to the Appendices in Part 732.

### **B. Technical Feasibility and Economic Reasonableness**

#### **1. Technical Feasibility**

New technical requirements created by the proposed amendments are the result of the enactment of Public Act 92-0554. They are not, however, dissimilar in substance from the requirements applicable to sites classified as high priority under Part 732 or remediated pursuant to Section 732.300(b). Under both Part 734 and Part 732 the sites are remediated in accordance with the Tiered Approach to Corrective Action Objectives (TACO) rules of 35 Ill. Adm. Code 742. Therefore, the Illinois EPA believes that no issues of technical feasibility are raised by this proposal.

#### **2. Economic Reasonableness**

This proposal may result in both increased and decreased incidental costs to the Illinois EPA and the Board. As a result of proposed Part 734, the Illinois EPA anticipates incurring costs related to forms revisions, internal training, and public outreach. Some of these costs, however, are due to the enactment of Public Act 92-0554 and will not be incurred solely as a result of the proposed rules. The Illinois EPA anticipates a costs savings as a result of the

streamlined plan, budget, and report review process provided in Subparts E and H. In addition, as a result of the new standardized payment process provided by Subpart H, the Illinois EPA hopes to see an overall reduction in the number of appeals to the Board, which should result in additional savings to the Illinois EPA as well as savings to the Board and owners and operators seeking payment from the UST Fund. The Illinois EPA believes that any cost increases associated with the proposed rules will be reasonable.

## **II. SYNOPSIS OF TESTIMONY**

The Illinois EPA plans to provide the following witnesses at hearing: Gary King, Doug Clay, Hernando Albarracin, Harry Chappel, Brian Bauer, and Doug Oakley. Mr. Clay, Manager of the Illinois EPA's LUST Section, will testify about the proposed rules in general as well as rules relating specifically to deferred corrective action; indicator contaminants; the review of plans, budgets, and reports; payment from the UST Fund; and No Further Remediation Letters and their recording requirements. Mr. Albarracin, a unit manager in the LUST Section, will testify about the general provisions of Subpart A, early action requirements, site investigation requirements, and corrective action requirements. Mr. Chappel, a unit manager in the LUST Section, and Mr. Bauer, a project manager in the LUST Section, will testify about Subpart H and related appendices. Mr. Oakley, manager of the Illinois EPA's LUST Claims Unit, will testify about proposed rules relating to payment from the UST Fund. Mr. King, Manager of the Division of Remediation Management in the Illinois EPA's Bureau of Land, will not offer prepared testimony but will assist in answering questions as a part of the panel requested below.

Written testimony will be submitted prior to hearing in accordance with the Board's procedural rules. The Illinois EPA respectfully requests that the Board allow Illinois EPA witnesses to present their oral testimony in panel form rather than calling each individually. A

panel format should streamline the hearing process, and has proved beneficial in past rulemakings.

**III. STATEMENT REGARDING MATERIAL INCORPORATED BY REFERENCE**

The material incorporated by reference in Section 734.120 is the same material already incorporated by reference in Section 732.104, or new material proposed to be incorporated by reference in the concurrent Part 732 rulemaking and, according to the Board's technical staff, is already in the Board's possession. Therefore, the Illinois EPA respectfully requests that the Board waive the submission of copies of the material incorporated by reference as required under 35 Ill. Adm. Code 102.202(d).

Respectfully submitted,

ILLINOIS ENVIRONMENTAL  
PROTECTION AGENCY

  
\_\_\_\_\_  
Kyle Rominger  
Assistant Counsel

DATED: 1-9-08  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, Illinois 62794-9276  
(217) 782-5544

**TITLE 35: ENVIRONMENTAL PROTECTION  
SUBTITLE G: WASTE DISPOSAL  
CHAPTER I: POLLUTION CONTROL BOARD  
SUBCHAPTER d: UNDERGROUND INJECTION CONTROL AND  
UNDERGROUND STORAGE TANK PROGRAMS**

**PART 734  
PETROLEUM UNDERGROUND STORAGE TANKS  
(RELEASES REPORTED ON OR AFTER JUNE 24, 2002)**

**SUBPART A: GENERAL**

**Section**

734.100	Applicability
734.105	Election to Proceed under Part 734
734.110	Severability
734.115	Definitions
734.120	Incorporations by Reference
734.125	Agency Authority to Initiate Investigative, Preventive, or Corrective Action
734.130	Licensed Professional Engineer or Licensed Professional Geologist Supervision
734.135	Form and Delivery of Plans, Budgets, and Reports; Signatures and Certifications

**SUBPART B: EARLY ACTION**

**Section**

734.200	General
734.205	Agency Authority to Initiate
734.210	Early Action
734.215	Free Product Removal
734.220	Application for Payment of Early Action Costs

**SUBPART C: SITE INVESTIGATION AND CORRECTIVE ACTION**

**Section**

734.300	General
734.305	Agency Authority to Initiate
734.310	Site Investigation – General
734.315	Stage 1 Site Investigation
734.320	Stage 2 Site Investigation
734.325	Stage 3 Site Investigation
734.330	Site Investigation Completion Report
734.335	Corrective Action Plan
734.340	Alternative Technologies
734.345	Corrective Action Completion Report
734.350	Off-site Access

734.355 Status Report

**SUBPART D: MISCELLANEOUS PROVISIONS**

**Section**

734.400 General  
734.405 Indicator Contaminants  
734.410 Remediation Objectives  
734.415 Data Quality  
734.420 Laboratory Certification  
734.425 Soil Borings  
734.430 Monitoring Well Construction and Sampling  
734.435 Sealing of Soil Borings and Groundwater Monitoring Wells  
734.440 Site Map Requirements  
734.445 Water Supply Well Survey  
734.450 Deferred Site Investigation or Corrective Action; Priority List for Payment

**SUBPART E: REVIEW OF PLANS, BUDGETS, AND REPORTS**

**Section**

734.500 General  
734.505 Review of Plans, Budgets, or Reports  
734.510 Standards for Review of Plans, Budgets, or Reports

**SUBPART F: PAYMENT FROM THE FUND**

**Section**

734.600 General  
734.605 Applications for Payment  
734.610 Review of Applications for Payment  
734.615 Authorization for Payment; Priority List  
734.620 Limitations on Total Payments  
734.625 Eligible Corrective Action Costs  
734.630 Ineligible Corrective Action Costs  
734.635 Payment for Handling Charges  
734.640 Apportionment of Costs  
734.645 Subrogation of Rights  
734.650 Indemnification  
734.655 Costs Covered by Insurance, Agreement, or Court Order  
734.660 Determination and Collection of Excess Payments  
734.665 Audits and Access to Records; Records Retention

**SUBPART G: NO FURTHER REMEDIATION LETTERS  
AND RECORDING REQUIREMENTS**

**Section**

- 734.700 General
- 734.705 Issuance of a No Further Remediation Letter
- 734.710 Contents of a No Further Remediation Letter
- 734.715 Duty to Record a No Further Remediation Letter
- 734.720 Voidance of a No Further Remediation Letter

**SUBPART H: MAXIMUM PAYMENT AMOUNTS**

**Section**

- 734.800 Applicability
  - 734.810 UST Removal or Abandonment Costs
  - 734.815 Free Product or Groundwater Removal and Disposal
  - 734.820 Drilling, Well Installation, and Well Abandonment
  - 734.825 Soil Removal and Disposal
  - 734.830 Drum Disposal
  - 734.835 Sample Handling and Analysis
  - 734.840 Replacement of Concrete, Asphalt, or Paving; Destruction or Dismantling and Reassembly of Above Grade Structures
  - 734.845 Professional Consulting Services
  - 734.850 Payment on Time and Materials Basis
  - 734.855 Unusual or Extraordinary Expenses
  - 734.860 Handling Charges
  - 734.865 Agency Review of Payment Amounts
- 
- 734.APPENDIX A Indicator Contaminants
  - 734.APPENDIX B Additional Parameters
  - 734.APPENDIX C Backfill Volumes
  - 734.APPENDIX D Sample Handling and Analysis
  - 734.APPENDIX E Personnel Titles and Rates

**AUTHORITY:** Implementing Sections 22.12 and 57 - 57.17 and authorized by Sections 5, 22, 27, and 57.14A of the Environmental Protection Act [415 ILCS 5/5, 22, 22.12, 27, and 57 - 57.17]

**SOURCE:** Adopted in R\_\_\_\_\_ at \_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

**NOTE:** Italics denotes statutory language.

## **SUBPART A: GENERAL**

### **Section 734.100      Applicability**

- a) This Part applies to owners or operators of any underground storage tank system used to contain petroleum and for which a release is reported to IEMA on or after June 24, 2002, in accordance with OSFM regulations. It does not apply to owners or operators of sites for which the OSFM does not require a report to IEMA or for which the OSFM has issued or intends to issue a certificate of removal or abandonment pursuant to Section 57.5 of the Act.
- b) Owners or operators of any underground storage tank system used to contain petroleum and for which a release was reported to the proper State authority prior to June 24, 2002, may elect to proceed in accordance with this Part pursuant to Section 734.105 of this Part.
- c) Upon the receipt of a corrective action order issued by the OSFM on or after June 24, 2002, and pursuant to Section 57.5(g) of the Act, where the OSFM has determined that a release poses a threat to human health or the environment, the owner or operator of any underground storage tank system used to contain petroleum and taken out of operation before January 2, 1974, or any underground storage tank system used exclusively to store heating oil for consumptive use on the premises where stored and which serves other than a farm or residential unit, shall conduct corrective action in accordance with this Part.
- d) Owners or operators subject to this Part by law or by election shall proceed expeditiously to comply with all requirements of the Act and the regulations and to obtain the No Further Remediation Letter signifying final disposition of the site for purposes of this Part. The Agency may use its authority pursuant to the Act and Section 734.125 of this Part to expedite investigative, preventive, or corrective action by an owner or operator or to initiate such action.
- e) The following underground storage tank systems are excluded from the requirements of this Part:
  - 1) Equipment or machinery that contains petroleum substances for operational purposes, such as hydraulic lift tanks and electrical equipment tanks.
  - 2) Any underground storage tank system whose capacity is 110 gallons or less.

- 3) Any underground storage tank system that contains a de minimis concentration of petroleum substances.
- 4) Any emergency spill or overfill containment underground storage tank system that is expeditiously emptied after use.
- 5) Any wastewater treatment tank system that is part of a wastewater treatment facility regulated under Section 402 or 307(b) of the Clean Water Act [33 U.S.C. 1251 *et seq.* (1972)].
- 6) Any UST system holding hazardous waste listed or identified under Subtitle C of the Solid Waste Disposal Act [42 U.S.C. 3251 *et seq.*] or a mixture of such hazardous waste or other regulated substances.

**Section 734.105 Election to Proceed under Part 734**

- a) Owners or operators of any underground storage tank system used to contain petroleum and for which a release was reported to the proper State authority prior to June 24, 2002, may elect to proceed in accordance with this Part by submitting to the Agency a written statement of such election signed by the owner or operator. Such election shall be submitted on forms prescribed and provided by the Agency and, if specified by the Agency in writing, in an electronic format. Corrective action shall then follow the requirements of this Part. The election shall be effective upon receipt by the Agency and shall not be withdrawn once made.
- b) Except as provided in Section 734.100(c) of this Part, owners or operators of underground storage tanks used exclusively to store heating oil for consumptive use on the premises where stored and that serve other than a farm or residential unit may elect to proceed in accordance with this Part by submitting to the Agency a written statement of such election signed by the owner or operator. Such election shall be submitted on forms prescribed and provided by the Agency and, if specified by the Agency in writing, in an electronic format. Corrective action shall then follow the requirements of this Part. The election shall be effective upon receipt by the Agency and shall not be withdrawn once made.
- c) Owners and operators electing pursuant to this Section to proceed in accordance with this Part shall submit with their election a summary of the activities conducted to date that satisfy requirements of this Part, a statement of the requirements of this Part that have yet to be satisfied, and a proposed starting point for compliance with this Part. The Agency shall review and approve, reject, or modify the submission in accordance with the procedures contained in Subpart E of this Part.



- d) If the owner or operator elects to proceed pursuant to this Part, corrective action costs incurred in connection with the release and prior to the notification of election shall be payable from the Fund in the same manner as was allowable under the law applicable to the owner or operator prior to the notification of election. Corrective action costs incurred after the notification of election shall be payable from the Fund in accordance with this Part.
- e) This Section does not apply to any release for which the Agency has issued a No Further Remediation Letter.

**Section 734.110 Severability**

If any provision of this Part or its application to any person or under any circumstances is adjudged invalid, such adjudication shall not affect the validity of this Part as a whole or of any portion not adjudged invalid.

**Section 734.115 Definitions**

Except as stated in this Section, or unless a different meaning of a word or term is clear from the context, the definitions of words or terms in this Part shall be the same as those applied to the same words or terms in the Environmental Protection Act [415 ILCS 5].

"Act" means the Environmental Protection Act [415 ILCS 5].

"Agency" means the Illinois Environmental Protection Agency.

"Alternative Technology" means a process or technique, other than conventional technology, used to perform a corrective action with respect to soils contaminated by releases of petroleum from an underground storage tank.

"Board" means the Illinois Pollution Control Board.

*"Bodily Injury" means bodily injury, sickness, or disease sustained by a person, including death at any time, resulting from a release of petroleum from an underground storage tank [415 ILCS 5/57.2].*

*"Community water supply" means a public water supply which serves or is intended to serve at least 15 service connections used by residents or regularly serves at least 25 residents [415 ILCS 5/3.145].*

"Confirmation of a release" means the confirmation of a release of petroleum in accordance with regulations promulgated by the Office of the State Fire Marshal at 41 Ill. Adm. Code 170.

"Confirmed Release" means a release of petroleum that has been confirmed in

accordance with regulations promulgated by the Office of the State Fire Marshal at 41 Ill. Adm. Code 170.

"Conventional Technology" means a process or technique to perform a corrective action by removal, transportation, and disposal of soils contaminated by a release of petroleum from an underground storage tank in accordance with applicable laws and regulations, but without processing to remove petroleum from the soils.

*"Corrective action" means activities associated with compliance with the provisions of Sections 57.6 and 57.7 of the Act [415 ILCS 5/57.2].*

"County highway" means county highway as defined in the Illinois Highway Code, 605 ILCS 5.

"District road" means district road as defined in the Illinois Highway Code, 605 ILCS 5.

"Environmental Land Use Control" means Environmental Land Use Control as defined in 35 Ill. Adm. Code 742.200.

"Federal Landholding Entity" means that federal department, agency, or instrumentality with the authority to occupy and control the day-to-day use, operation, and management of Federally Owned Property.

"Federally Owned Property" means real property owned in fee simple by the United States on which an institutional control is or institutional controls are sought to be placed in accordance with this Part.

*"Fill material" means non-native or disturbed materials used to bed and backfill around an underground storage tank [415 ILCS 5/57.2].*

"Financial interest" means any ownership interest, legal or beneficial, or being in the relationship of director, advisor, officer, employee, or other active participant in the affairs of a party. Financial interest does not include ownership of publicly traded stock.

"Free Product" means a contaminant that is present as a non-aqueous phase liquid for chemicals whose melting point is less than 30° C (e.g., liquid not dissolved in water).

"Full Accounting" means a compilation of documentation to establish, substantiate, and justify the nature and extent of the corrective action costs incurred by an owner or operator.

*"Fund" means the Underground Storage Tank Fund [415 ILCS 5/57.2].*

“GIS” means Geographic Information System.

“GPS” means Global Positioning System.

*“Groundwater” means underground water which occurs within the saturated zone and geologic materials where the fluid pressure in the pore space is equal to or greater than atmospheric pressure [415 ILCS 5/3.210].*

“Half-day” means five hours or less of billable work time. The number of half-days per calendar day shall not exceed two.

"Handling Charges" means administrative, insurance, and interest costs and a reasonable profit for procurement, oversight, and payment of subcontracts and field purchases.

*“Heating oil” means petroleum that is No. 1, No. 2, No. 4 -light, No. 4 -heavy, No. 5 -light, No. 5 -heavy or No. 6 technical grades of fuel oil; and other residual fuel oils including navy special fuel oil and bunker c [415 ILCS 5/57.2].*

“Highway authority” means the Illinois Department of Transportation *with respect to a State highway*; the Illinois State Toll Highway Authority *with respect to a toll highway*; *the county board with respect to a county highway or a county unit district road if a discretionary function is involved and the county superintendent of highways if a ministerial function is involved*; the highway commissioner *with respect to a township or district road not in a county or unit road district*; or the corporate authorities of a municipality *with respect to a municipal street [605 ILCS 5/2-213].*

“Highway Authority Agreement” means an agreement with a highway authority that meets the requirements of 35 Ill. Adm. Code 742.1020.

"IEMA" means the Illinois Emergency Management Agency.

*“Indemnification” means indemnification of an owner or operator for the amount of judgment entered against the owner or operator in a court of law, for the amount of any final order or determination made against the owner or operator by any agency of State government or any subdivision thereof, or for the amount of any settlement entered into by the owner or operator, if the judgment, order, determination, or settlement arises out of bodily injury or property damage suffered as a result of a release of petroleum from an underground storage tank owned or operated by the owner or operator [415 ILCS 5/57.2].*

“Indicator contaminants” means the indicator contaminants set forth in Section 734.405 of this Part.

“Institutional Control” means a legal mechanism for imposing a restriction on

land use as described in 35 Ill. Adm. Code 742.Subpart J.

“Land Use Control Memorandum of Agreement” means an agreement entered into between one or more agencies of the United States and the Illinois Environmental Protection Agency that limits or places requirements upon the use of Federally Owned Property for the purpose of protecting human health or the environment, or that is used to perfect a No Further Remediation Letter that contains land use restrictions.

*“Licensed Professional Engineer” means a person, corporation or partnership licensed under the laws of the State of Illinois to practice professional engineering [415 ILCS 5/57.2].*

*“Licensed Professional Geologist” means a person licensed under the laws of the State of Illinois to practice as a professional geologist [415 ILCS 5/57.2].*

"Man-made Pathway" means a constructed route that may allow for the transport of mobile petroleum free-liquid or petroleum-based vapors including but not limited to sewers, utility lines, utility vaults, building foundations, basements, crawl spaces, drainage ditches, or previously excavated and filled areas.

"Monitoring Well" means a water well intended for the purpose of determining groundwater quality or quantity.

"Natural Pathway" means a natural route for the transport of mobile petroleum free-liquid or petroleum-based vapors including but not limited to soil, groundwater, sand seams and lenses, and gravel seams and lenses.

*“Non-community water supply” means a public water supply that is not a community water supply [415 ILCS 5/3.145].*

*“Occurrence” means an accident, including continuous or repeated exposure to conditions, that results in a sudden or nonsudden release from an underground storage tank [415 ILCS 5/57.2].*

"OSFM" means the Office of the State Fire Marshal.

“Operator” means any person in control of, or having responsibility for, the daily operation of the underground storage tank. (Derived from 42 USC 6991)

BOARD NOTE: A person who voluntarily undertakes action to remove an underground storage tank system from the ground shall not be deemed an "operator" merely by the undertaking of such action.

"Owner" means:

In the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances;

In the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such underground storage tank immediately before the discontinuation of its use. (Derived from 42 USC 6991)

“Perfect” or “Perfected” means recorded or filed for record so as to place the public on notice, or as otherwise provided in Sections 734.715(c) and (d) of this Part.

"Person" means, for the purposes of interpreting the definitions of the terms "owner" or "operator," an individual, trust, firm, joint stock company, joint venture, consortium, commercial entity, corporation (including a government corporation), partnership, association, State, municipality, commission, political subdivision of a State, or any interstate body and shall include the United States Government and each department, agency, and instrumentality of the United States. (Derived from 42 USC 6991)

“Petroleum” means petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60°F and 14.7 pounds per square inch absolute). (Derived from 42 USC 6991)

*“Potable” means generally fit for human consumption in accordance with accepted water supply principles and practices [415 ILCS 5/3.340].*

"Practical quantitation limit" (“PQL”) means the lowest concentration that can be reliably measured within specified limits of precision and accuracy for a specific laboratory analytical method during routine laboratory operating conditions in accordance with "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," EPA Publication No. SW-846, incorporated by reference at Section 734.120 of this Part. For filtered water samples, PQL also means the Method Detection Limit or Estimated Detection Limit in accordance with the applicable method revision in: "Methods for the Determination of Metals in Environmental Samples," EPA Publication No. EPA/600/4-91/010; "Methods for the Determination of Metals in Environmental Samples, Supplement I," EPA Publication No. EPA/600/R-94/111; "Methods for the Determination of Organic Compounds in Drinking Water," EPA Publication No. EPA/600/4-88/039; "Methods for the Determination of Organic Compounds in Drinking Water, Supplement II," EPA Publication No. EPA/600/R-92/129; or "Methods for the Determination of Organic Compounds in Drinking Water, Supplement III," EPA

Publication No. EPA/600/R-95/131, all of which are incorporated by reference at Section 734.120 of this Part.

*“Property damage” means physical injury to, destruction of, or contamination of tangible property owned by a person other than an owner or operator of the UST from which a release of petroleum has occurred and which tangible property is located off the site where the release occurred. Property damage includes all resulting loss of use of that property; or loss of use of tangible property that is not physically injured, destroyed or contaminated, but has been evacuated, withdrawn from use, or rendered inaccessible because of a release of petroleum from an underground storage tank [415 ILCS 5/57.2].*

*“Public water supply” means all mains, pipes and structures through which water is obtained and distributed to the public, including wells and well structures, intakes and cribs, pumping stations, treatment plants, reservoirs, storage tanks and appurtenances, collectively or severally, actually used or intended for use for the purpose of furnishing water for drinking or general domestic use and which serve at least 15 service connections or which regularly serve at least 25 persons at least 60 days per year. A public water supply is either a “community water supply” or a “non-community water supply” [415 ILCS 5/3.365].*

"Registration" means registration of an underground storage tank with the OSFM in accordance with Section 4 of the Gasoline Storage Act [430 ILCS 15/4].

*“Regulated recharge area” means a compact geographic area, as determined by the Board, [35 Ill. Adm. Code Subtitle F] the geology of which renders a potable resource groundwater particularly susceptible to contamination [415 ILCS 5/3.390].*

“Regulated Substance” means any substance defined in Section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 [42 USC 9601(14)] (but not including any substance regulated as a hazardous waste under subtitle C of the Resource Conservation and Recovery Act [42 USC 6921 et seq.]), and petroleum. (Derived from 42 USC 6991)

*“Release” means any spilling, leaking, emitting, discharging, escaping, leaching, or disposing of petroleum from an underground storage tank into groundwater, surface water or subsurface soils [415 ILCS 5/57.2].*

"Residential Tank" means an underground storage tank located on property used primarily for dwelling purposes.

"Residential Unit" means a structure used primarily for dwelling purposes including multi-unit dwellings such as apartment buildings, condominiums,

cooperatives, or dormitories.

“Right-of-way” means *the land, or interest therein, acquired for or devoted to a highway* [605 ILCS 5/2-217].

“Setback Zone” means *a geographic area, designated pursuant to the Act* [415 ILCS 5/14.1, 5/14.2, 5/14.3] *or regulations* [35 Ill. Adm. Code Subtitle F], *containing a potable water supply well or a potential source or potential route, having a continuous boundary, and within which certain prohibitions or regulations are applicable in order to protect groundwater* [415 ILCS 5/3.450].

“Site” means *any single location, place, tract of land or parcel of property including contiguous property not separated by a public right-of-way* [415 ILCS 5/57.2].

“State highway” means state highway as defined in the Illinois Highway Code, 605 ILCS 5.

“Street” means street as defined in the Illinois Highway Code, 605 ILCS 5.

"Surface Body of Water" or "Surface Water Body" means a natural or man-made body of water on the ground surface including but not limited to lakes, ponds, reservoirs, retention ponds, rivers, streams, creeks, and drainage ditches. Surface body of water does not include puddles or other accumulations of precipitation, run-off, or groundwater in UST excavations.

“Toll highway” means toll highway as defined in the Toll Highway Act, 605 ILCS 10.

“Township road” means township road as defined in the Illinois Highway Code, 605 ILCS 5.

"Underground Storage Tank" or "UST" means any one or combination of tanks (including underground pipes connected thereto) which is used to contain an accumulation of regulated substances, and the volume of which (including the volume of underground pipes connected thereto) is 10 per centum or more beneath the surface of the ground. Such term does not include any of the following or any pipes connected thereto:

Farm or residential tank of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;

Septic tank;

Pipeline facility (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968 [49 USC App. 1671 et seq.], or the

Hazardous Liquid Pipeline Safety Act of 1979 [49 USC App. 2001 et seq.], or which is an intrastate pipeline facility regulated under State laws as provided in either of these provisions of law, and that is determined by the Secretary of Energy to be connected to a pipeline or to be operated or intended to be capable of operating at pipeline pressure or as an integral part of a pipeline;

Surface impoundment, pit, pond, or lagoon;

Storm water or waste water collection system;

Flow-through process tank;

Liquid trap or associated gathering lines directly related to oil or gas production and gathering operations; or

Storage tank situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated on or above the surface of the floor. (Derived from 42 USC § 6991)

*The term "underground storage tank" shall also mean an underground storage tank used exclusively to store heating oil for consumptive use on the premises where stored and which serves other than a farm or residential unit [415 ILCS 5/57.2].*

"UST system" or "tank system" means an underground storage tank, connected underground piping, underground ancillary equipment, and containment system, if any.

"Wellhead Protection Area" means the wellhead protection area of a community water supply well as determined under the Agency's wellhead protection program pursuant to 42 USC § 300h-7.

#### **Section 734.120      Incorporations by Reference**

- a) The Board incorporates the following material by reference:

ASTM. American Society for Testing and Materials, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959 (610) 832-9585

ASTM D 2487-93, Standard Test Method for Classification of Soils for Engineering Purposes, approved September 15, 1993.

NTIS. National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161 (703) 605-6000 or (800) 553-6847



“Methods for the Determination of Metals in Environmental Samples,” EPA Publication No. EPA/600/4-91/010 (June 1991);

“Methods for the Determination of Metals in Environmental Samples, Supplement I,” EPA Publication No. EPA/600/R-94/111 (May 1994);

“Methods for the Determination of Organic Compounds in Drinking Water,” EPA Publication No. EPA/600/4-88/039 (December 1988) (revised July 1991);

“Methods for the Determination of Organic Compounds in Drinking Water, Supplement II,” EPA Publication No. EPA/600/R-92/129 (August 1992);

“Methods for the Determination of Organic Compounds in Drinking Water, Supplement III,” EPA Publication No. EPA/600/R-95/131 (August 1995);

“Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods,” EPA Publication No. SW-846, Third Edition (September 1986), as amended by Updates I, IIA, III, and IIIA (Final Update IIIA dated April 1998), Doc. No. 955-001-00000-1.

- b) This Section incorporates no later editions or amendments.

**Section 734.125 Agency Authority to Initiate Investigative, Preventive, or Corrective Action**

- a) *The Agency has the authority to do either of the following:*
  - 1) *Provide notice to the owner or operator, or both, of an underground storage tank whenever there is a release or substantial threat of a release of petroleum from such tank. Such notice shall include the identified investigation or response action and an opportunity for the owner or operator, or both, to perform the response action.*
  - 2) *Undertake investigative, preventive or corrective action whenever there is a release or a substantial threat of a release of petroleum from an underground storage tank [415 ILCS 5/57.12(c)].*
- b) *If notice has been provided under this Section, the Agency has the authority to require the owner or operator, or both, of an underground storage tank to undertake preventive or corrective action whenever there*

*is a release or substantial threat of a release of petroleum from such tank [415 ILCS 5/57.12(d)].*

**Section 734.130 Licensed Professional Engineer or Licensed Professional Geologist Supervision**

All investigations, plans, budgets, and reports conducted or prepared under this Part, excluding Corrective Action Completion Reports submitted pursuant to Section 734.345 of this Part, shall be conducted or prepared under the supervision of a Licensed Professional Engineer or Licensed Professional Geologist. Corrective Action Completion Reports submitted pursuant to Section 734.345 of this Part shall be prepared under the supervision of a Licensed Professional Engineer.

**Section 734.135 Form and Delivery of Plans, Budgets, and Reports; Signatures and Certifications**

- a) All plans, budgets, and reports shall be submitted to the Agency on forms prescribed and provided by the Agency and, if specified by the Agency in writing, in an electronic format.
- b) All plans, budgets, and reports shall be mailed or delivered to the address designated by the Agency. The Agency's record of the date of receipt shall be deemed conclusive unless a contrary date is proven by a dated, signed receipt from certified or registered mail.
- c) All plans, budgets, and reports shall be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.
- d) All plans, budgets, and reports submitted pursuant to this Part, excluding Corrective Action Completion Reports submitted pursuant to Section 734.345 of this Part, shall contain the following certification from a Licensed Professional Engineer or Licensed Professional Geologist. Corrective Action Completion Reports submitted pursuant to Section 734.345 of this Part shall contain the following certification from a Licensed Professional Engineer.

I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in the plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code

734, and generally accepted engineering practices or principles of professional geology; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Agency, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

- e) Except in the case of sites subject to Section 734.715(d) of this Part, reports documenting the completion of corrective action at a site must contain a form addressing site ownership. At a minimum, the form shall identify the land use limitations proposed for the site, if land use limitations are proposed; the site's common address, legal description, and real estate tax/parcel index number; and the names and addresses of all title holders of record of the site or any portion of the site. The form shall also contain the following certification, by original signature, of all title holders of record of the site or any portion of the site, or the agent(s) of such person(s):

I hereby affirm that I have reviewed the attached report entitled \_\_\_\_\_ and dated \_\_\_\_\_, and that I accept the terms and conditions set forth therein, including any land use limitations, that apply to property I own. I further affirm that I have no objection to the recording of a No Further Remediation Letter containing the terms and conditions identified in the report upon the property I own.

## **SUBPART B: EARLY ACTION**

### **Section 734.200      General**

*Owners and operators of underground storage tanks shall, in response to all confirmed releases of petroleum, comply with all applicable statutory and regulatory reporting and response requirements. No work plan or corresponding budget shall be required for conducting early action activities, excluding free product removal activities conducted more than 45 days after confirmation of the presence of free product. [415 ILCS 5/57.6(a)]*

### **Section 734.205      Agency Authority to Initiate**

Pursuant to Sections 734.100 or 734.125 of this Part, the Agency shall have the authority to require or initiate early action activities in accordance with the remainder of this Subpart B.

### **Section 734.210      Early Action**

- a) Upon confirmation of a release of petroleum from an UST system in accordance with regulations promulgated by the OSFM, the owner or operator, or both, shall perform the following initial response actions within 24 hours after the release:
  - 1) Report the release to IEMA (e.g., by telephone or electronic mail);
  - 2) Take immediate action to prevent any further release of the regulated substance to the environment; and
  - 3) Identify and mitigate fire, explosion and vapor hazards.
  
- b) Within 20 days after initial notification to IEMA of a release plus 14 days, the owner or operator shall perform the following initial abatement measures:
  - 1) Remove as much of the petroleum from the UST system as is necessary to prevent further release into the environment;
  - 2) Visually inspect any aboveground releases or exposed below ground releases and prevent further migration of the released substance into surrounding soils and groundwater;
  - 3) Continue to monitor and mitigate any additional fire and safety hazards posed by vapors or free product that have migrated from the UST excavation zone and entered into subsurface structures (such as sewers or basements);
  - 4) Remedy hazards posed by contaminated soils that are excavated or exposed as a result of release confirmation, site investigation, abatement or corrective action activities. If these remedies include treatment or disposal of soils, the owner or operator shall comply with 35 Ill. Adm. Code 722, 724, 725, and 807 through 815;
  - 5) Measure for the presence of a release where contamination is most likely to be present at the UST site, unless the presence and source of the release have been confirmed in accordance with regulations promulgated by the OSFM. In selecting sample types, sample locations, and measurement methods, the owner or operator shall consider the nature of the stored substance, the type of backfill, depth to groundwater and other factors as appropriate for identifying the presence and source of the release; and
  - 6) Investigate to determine the possible presence of free product, and begin removal of free product as soon as practicable and in accordance with Section 734.215 of this Part.

- c) Within 20 days after initial notification to IEMA of a release plus 14 days, the owner or operator shall submit a report to the Agency summarizing the initial abatement steps taken under subsection (b) of this Section and any resulting information or data.
- d) Within 45 days after initial notification to IEMA of a release plus 14 days, the owner or operator shall assemble information about the site and the nature of the release, including information gained while confirming the release or completing the initial abatement measures in subsections (a) and (b) of this Section. This information shall include, but is not limited to, the following:
  - 1) Data on the nature and estimated quantity of release;
  - 2) Data from available sources or site investigations concerning the following factors: surrounding populations, water quality, use and approximate locations of wells potentially affected by the release, subsurface soil conditions, locations of subsurface sewers, climatological conditions and land use;
  - 3) Results of the site check required at subsection (b)(5) of this Section; and
  - 4) Results of the free product investigations required at subsection (b)(6) of this Section, to be used by owners or operators to determine whether free product must be recovered under Section 734.215 of this Part.
- e) Within 45 days after initial notification to IEMA of a release plus 14 days, the owner or operator shall submit to the Agency the information collected in compliance with subsection (d) of this Section in a manner that demonstrates its applicability and technical adequacy.
- f) *Notwithstanding any other corrective action taken, an owner or operator may, at a minimum, and prior to submission of any plans to the Agency, remove the tank system, or abandon the underground storage tank in place, in accordance with the regulations promulgated by the Office of the State Fire Marshal (see 41 Ill. Adm. Code 160, 170, 180, 200). The owner may remove visibly contaminated fill material and any groundwater in the excavation which exhibits a sheen. For purposes of payment of early action costs, however, fill material shall not be removed in an amount in excess of 4 feet from the outside dimensions of the tank. Early action may also include disposal in accordance with applicable regulations or ex situ treatment of contaminated fill material removed*

from within 4 feet from the outside dimensions of the tank. [415 ILCS 5/57.6(b)].

- g) For purposes of payment from the Fund, the activities set forth in subsection (f) of this Section shall be performed within 45 days after initial notification to IEMA of a release plus 14 days, unless special circumstances, approved by the Agency in writing, warrant continuing such activities beyond 45 days plus 14 days. The owner or operator shall notify the Agency in writing of such circumstances within 45 days after initial notification to IEMA of a release plus 14 days. Costs incurred beyond 45 days plus 14 days shall be eligible if the Agency determines that they are consistent with early action.

BOARD NOTE: Owners or operators seeking payment from the Fund are to first notify IEMA of a suspected release and then confirm the release within 14 days to IEMA pursuant to regulations promulgated by the OSFM. See 41 Ill. Adm. Code 170.560 and 170.580. The Board is setting the beginning of the payment period at subsection (g) to correspond to the notification and confirmation to IEMA.

- h) The owner or operator shall determine whether the areas or locations of soil contamination exposed as a result of early action excavation (e.g., excavation boundaries, piping runs) or surrounding USTs that remain in place meet the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants.

- 1) At a minimum, for each UST that is removed, the owner or operator shall collect and analyze soil samples as follows:
  - A) One sample shall be collected from each UST excavation wall. The samples shall be collected from locations representative of soil that is the most contaminated as a result of the release. If an area of contamination cannot be identified on a wall, the sample shall be collected from the center of the wall length at a point located one-third of the distance from the excavation floor to the ground surface. For walls that exceed 20 feet in length, one sample shall be collected for each 20 feet of wall length, or fraction thereof, and the samples shall be evenly spaced along the length of the wall.
  - B) Two samples shall be collected from the excavation floor below each UST with a volume of 1,000 gallons or more. One sample shall be collected from the excavation floor below each UST with a volume of less than 1,000 gallons. The samples shall be collected from locations

representative of soil that is the most contaminated as a result of the release. If areas of contamination cannot be identified, the samples shall be collected from below each end of the UST if its volume is 1,000 gallons or more, and from below the center of the UST if its volume is less than 1,000 gallons.

- C) One sample shall be collected from the floor of each 20 feet of UST piping run excavation, or fraction thereof. The samples shall be collected from a location representative of soil that is the most contaminated as a result of the release. If an area of contamination cannot be identified within a length of piping run excavation being sampled, the sample shall be collected from the center of the length being sampled. For UST piping abandoned in place, the samples shall be collected in accordance with subsection (h)(2)(B) of this Section.
  - D) If backfill is returned to the excavation, one representative sample of the backfill shall be collected for each UST with a volume of less than 12,000 gallons and two representative samples of the backfill shall be collected for each UST with a volume of 12,000 gallons or more.
  - E) The samples shall be analyzed for the applicable indicator contaminants. In the case of a used oil UST, the sample that appears to be the most contaminated as a result of a release from the used oil UST shall be analyzed in accordance with Section 734.405(g) of this Part to determine the indicator contaminants for used oil. The remaining samples collected pursuant to subsections (h)(1)(A) and (B) of this Section shall then be analyzed for the applicable used oil indicator contaminants.
- 2) At a minimum, for each UST that remains in place, the owner or operator shall collect and analyze soil samples as follows:
- A) One boring shall be drilled at the center point along each side of each UST, or along each side of each cluster of multiple USTs, remaining in place. If a side exceeds 20 feet in length, one boring shall be drilled for each 20 feet of side length, or fraction thereof, and the borings shall be evenly spaced along the side. The borings shall be drilled in the native soil surrounding the UST(s) and as close practicable to, but not more than five feet from, the backfill material surrounding the UST(s). Each boring shall be

drilled to a depth of 30 feet, or until groundwater or bedrock is encountered, whichever is less.

- B) Two borings, one on each side of the piping, shall be drilled for every 20 feet of UST piping, or fraction thereof, that remains in place. The borings shall be drilled as close practicable to, but not more than five feet from, the locations of suspected piping releases. If no release is suspected within a length of UST piping being sampled, the borings shall be drilled in the center of the length being sampled. Each boring shall be drilled to a depth of 15 feet, or until groundwater or bedrock is encountered, whichever is less. For UST piping that is removed, samples shall be collected from the floor of the piping run in accordance with subsection (h)(1)(C) of this Section.
  - C) If auger refusal occurs during the drilling of a boring required under subsection (h)(2)(A) or (B) of this Section, the boring shall be drilled in an alternate location that will allow the boring to be drilled to the required depth. The alternate location shall not be more than five feet from the boring's original location. If auger refusal occurs during drilling of the boring in the alternate location, drilling of the boring shall cease and the soil samples collected from the location in which the boring was drilled to the greatest depth shall be analyzed for the applicable indicator contaminants.
  - D) One soil sample shall be collected from each five-foot interval of each boring required under subsections (h)(2)(A) through (C) of this Section. Each sample shall be collected from the location within the five-foot interval that is the most contaminated as a result of the release. If an area of contamination cannot be identified within a five-foot interval, the sample shall be collected from the center of the five-foot interval, provided, however, that soil samples shall not be collected from soil below the groundwater table. All samples shall be analyzed for the applicable indicator contaminants.
- 3) If the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants have been met, and if none of the criteria set forth in subsections (h)(4)(A) through (C) of this Section are met, within 30 days after the completion of early action activities the owner or operator shall submit a report



demonstrating compliance with those remediation objectives. The report shall include, but not be limited to, the following:

- A) A characterization of the site that demonstrates compliance with the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
  - B) Supporting documentation, including, but not limited to, the following:
    - i) A site map meeting the requirements of Section 734.440 of this Part that shows the locations of all samples collected pursuant to this subsection (h);
    - ii) Analytical results, chain of custody forms, and laboratory certifications for all samples collected pursuant to this subsection (h); and
    - iii) A table comparing the analytical results of all samples collected pursuant to this subsection (h) to the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants; and
  - C) A site map containing only the information required under Section 734.440 of this Part.
- 4) If the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants have not been met, or if one or more of the following criteria are met, the owner or operator shall continue in accordance with Subpart C of this Part:
- A) There is evidence that groundwater wells have been impacted by the release above the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants (e.g., as found during release confirmation or previous corrective action measures);
  - B) Free product that may impact groundwater is found to need recovery in compliance with Section 734.215 of this Part; or

- C) There is evidence that contaminated soils may be or may have been in contact with groundwater, unless:
  - i) The owner or operator pumps the excavation or tank cavity dry, properly disposes of all contaminated water, and demonstrates to the Agency that no recharge is evident during the 24 hours following pumping; and
  - ii) The Agency determines that further groundwater investigation is not necessary.

**Section 734.215 Free Product Removal**

- a) Under any circumstance in which conditions at a site indicate the presence of free product, owners or operators shall remove free product exceeding one-eighth of an inch in depth, or present as a sheen on groundwater in the tank removal excavation or on surface water, while initiating or continuing any actions required pursuant to this Part or other applicable laws or regulations. In meeting the requirements of this Section, owners or operators shall:
  - 1) Conduct free product removal in a manner that minimizes the spread of contamination into previously uncontaminated zones by using recovery and disposal techniques appropriate to the hydrogeologic conditions at the site and that properly treats, discharges or disposes of recovery byproducts in compliance with applicable local, State, and federal regulations;
  - 2) Use abatement of free product migration as a minimum objective for the design of the free product removal system;
  - 3) Handle any flammable products in a safe and competent manner to prevent fires or explosions;
  - 4) Within 45 days after the confirmation of presence of free product from a UST, prepare and submit to the Agency a free product removal report. The report shall, at a minimum, provide the following:
    - A) The name of the persons responsible for implementing the free product removal measures;
    - B) The estimated quantity, type and thickness of free product observed or measured in wells, boreholes, and excavations;

- C) The type of free product recovery system used;
  - D) Whether any discharge will take place on-site or off-site during the recovery operation and where this discharge will be located;
  - E) The type of treatment applied to, and the effluent quality expected from, any discharge;
  - F) The steps that have been or are being taken to obtain necessary permits for any discharge;
  - G) The disposition of the recovered free product;
  - H) The steps taken to identify the source and extent of the free product; and
  - I) A schedule of future activities necessary to complete the recovery of free product still exceeding one-eighth of an inch in depth, or still present as a sheen on groundwater in the tank removal excavation or on surface water. The schedule shall include, but not be limited to, the submission of plans and budgets required pursuant to subsections (c) and (d) of this Section; and
- 5) If free product removal activities are conducted more than 45 days after confirmation of the presence of free product, submit free product removal reports quarterly or in accordance with a schedule established by the Agency.
- b) For purposes of payment from the Fund, owners or operators are not required to obtain Agency approval for free product removal activities conducted within 45 days after the confirmation of the presence of free product.
  - c) If free product removal activities will be conducted more than 45 days after the confirmation of the presence of free product, the owner or operator shall submit to the Agency for review a free product removal plan. The plan shall be submitted with the free product removal report required under subsection (a)(4) of this Section. Free product removal activities conducted more than 45 days after the confirmation of the presence of free product shall not be considered early action activities.
  - d) Any owner or operator intending to seek payment from the Fund shall, prior to conducting free product removal activities more than 45 days after the confirmation of the presence of free product, submit to the Agency a

free product removal budget with the corresponding free product removal plan. The budget shall include, but shall not be limited to, a copy of the eligibility and deductibility determination of the OSFM and an estimate of all costs associated with the development, implementation, and completion of the free product removal plan, excluding handling charges. The budget should be consistent with the eligible and ineligible costs listed in Sections 734.625 and 734.630 of this Part and the maximum payment amounts set forth in Subpart H of this Part. As part of the budget the Agency may require a comparison between the costs of the proposed method of free product removal and other methods of free product removal.

- e) Upon the Agency's approval of a free product removal plan, or as otherwise directed by the Agency, the owner or operator shall proceed with free product removal in accordance with the plan.
- f) Notwithstanding any requirement under this Part for the submission of a free product removal plan or free product removal budget, an owner or operator may proceed with free product removal in accordance with this Section prior to the submittal or approval of an otherwise required free product removal plan or budget. However, any such plan and budget shall be submitted to the Agency for review and approval, rejection, or modification in accordance with the procedures contained in Subpart E of this Part prior to payment for any related costs or the issuance of a No Further Remediation Letter.

BOARD NOTE: Owners or operators proceeding under subsection (f) of this Section are advised that they may not be entitled to full payment from the Fund. Furthermore, applications for payment must be submitted no later than one year after the date the Agency issues a No Further Remediation Letter. See Subpart F of this Part.

- g) If, following approval of any free product removal plan or associated budget, an owner or operator determines that a revised plan or budget is necessary in order to complete free product removal, the owner or operator shall submit, as applicable, an amended free product removal plan or associated budget to the Agency for review. The Agency shall review and approve, reject, or require modification of the amended plan or budget in accordance with Subpart E of this Part.

BOARD NOTE: Owners and operators are advised that the total payment from the Fund for all free product removal plans and associated budgets submitted by an owner or operator shall not exceed the amounts set forth in Subpart H of this Part.

**Section 734.220      Application for Payment of Early Action Costs**

Owners or operators intending to seek payment for early action activities, excluding free product removal activities conducted more than 45 days after confirmation of the presence of free product, are not required to submit a corresponding budget. The application for payment may be submitted to the Agency upon completion of the early action activities in accordance with the requirements at Subpart F of this Part, excluding free product removal activities conducted more than 45 days after confirmation of the presence of free product. Applications for payment of free product removal activities conducted more than 45 days after confirmation of the presence of free product may be submitted upon completion of the free product removal activities.

**SUBPART C: SITE INVESTIGATION AND CORRECTIVE ACTION**

**Section 734.300      General**

Unless the owner or operator submits a report pursuant to Section 734.210(h)(3) of this Part demonstrating that the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants have been met, the owner or operator shall investigate the site, conduct corrective action, and prepare plans, budgets, and reports in accordance with the requirements of this Subpart C.

**Section 734.305      Agency Authority to Initiate**

Pursuant to Sections 734.100 or 734.125 of this Part, the Agency shall have the authority to require or initiate site investigation and corrective action activities in accordance with the remainder of this Subpart C.

**Section 734.310      Site Investigation – General**

The investigation of the release shall proceed in three stages as set forth in this Section. If, after the completion of any stage, the extent of the soil and groundwater contamination exceeding the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants as a result of the release has been defined, the owner or operator shall cease investigation and proceed with the submission of a site investigation completion report in accordance with Section 734.330 of this Part.

- a) Prior to conducting site investigation activities pursuant to Section 734.315, 734.320, or 734.325 of this Part, the owner or operator shall submit to the Agency for review a site investigation plan. The plan shall be designed to satisfy the minimum requirements set forth in the applicable section and to collect the information required to be reported in the site investigation plan for the next stage of the site investigation, or in the site investigation completion report, whichever is applicable.

- b) Any owner or operator intending to seek payment from the Fund shall, prior to conducting any site investigation activities, submit to the Agency a site investigation budget with the corresponding site investigation plan. The budget shall include, but not be limited to, a copy of the eligibility and deductibility determination of the OSFM and an estimate of all costs associated with the development, implementation, and completion of the site investigation plan, excluding handling charges and costs associated with monitoring well abandonment. Costs associated with monitoring well abandonment shall be included in the corrective action budget. Site investigation budgets should be consistent with the eligible and ineligible costs listed at Sections 734.625 and 734.630 of this Part and the maximum payment amounts set forth in Subpart H of this Part. A budget for a Stage 1 site investigation shall consist of a certification signed by the owner or operator, and by a Licensed Professional Engineer or Licensed Professional Geologist, that the costs of the Stage 1 site investigation will not exceed the amounts set forth in Subpart H of this Part.
- c) *Upon the Agency's approval of a site investigation plan, or as otherwise directed by the Agency, the owner or operator shall conduct a site investigation in accordance with the plan [415 ILCS 5/57.7(a)(4)].*
- d) If, following the approval of any site investigation plan or associated budget, an owner or operator determines that a revised plan or budget is necessary in order to determine, within the area addressed in the applicable stage of the investigation, the nature, concentration, direction of movement, rate of movement, and extent of the contamination, or the significant physical features of the site and surrounding area that may affect contaminant transport and risk to human health and safety and the environment, the owner or operator shall submit, as applicable, an amended site investigation plan or associated budget to the Agency for review. The Agency shall review and approve, reject, or require modification of the amended plan or budget in accordance with Subpart E of this Part.

BOARD NOTE: Owners and operators are advised that the total payment from the Fund for all site investigation plans and associated budgets submitted by an owner or operator shall not exceed the amounts set forth in Subpart H of this Part.

- e) Notwithstanding any requirement under this Part for the submission of a site investigation plan or budget, an owner or operator may proceed to conduct site investigation activities in accordance with this Subpart C prior to the submittal or approval of an otherwise required site investigation plan or budget. However, any such plan or budget shall be submitted to the Agency for review and approval, rejection, or modification in accordance with the procedures contained in Subpart E of

this Part prior to receiving payment for any related costs or the issuance of a No Further Remediation Letter.

BOARD NOTE: Owners or operators proceeding under subsection (d) of this Section are advised that they may not be entitled to full payment. Furthermore, applications for payment must be submitted no later than one year after the date the Agency issues a No Further Remediation Letter. See Subpart F of this Part.

### **Section 734.315      Stage 1 Site Investigation**

The Stage 1 site investigation shall be designed to gather initial information regarding the extent of on-site soil and groundwater contamination that, as a result of the release, exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants.

- a)      The Stage 1 site investigation shall consist of the following:
  - 1)      Soil investigation.
    - A)      One boring shall be drilled 15 feet out from the location of each soil sample collected pursuant to Section 734.210(h)(1)(A) of this Part that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. If a boring cannot be drilled at a distance of 15 feet, it shall be drilled at a lesser distance that is as close as practicable to the 15-foot distance. Each boring shall be drilled to a depth of 30 feet, or until groundwater or bedrock is encountered, whichever is less.
    - B)      One boring shall be drilled as close as practicable to the location of each soil sample collected pursuant to Section 734.210(h)(1)(B) of this Part that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. Each boring shall be drilled to a depth of 15 feet below the UST excavation floor, or until groundwater or bedrock is encountered, whichever is less.
    - C)      Three borings shall be drilled for each soil sample collected pursuant to Section 734.210(h)(1)(C) of this Part that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants; one boring shall be drilled as close as practicable to the location of the sample and two borings

shall be drilled 15 feet out from the location of the sample (perpendicular to the piping run), in opposite directions from each other. If a boring cannot be drilled at a distance of 15 feet, it shall be drilled at a lesser distance that is as close as practicable to the 15-foot distance. All three borings shall be drilled to a depth of 15 feet below the piping run excavation floor, or until groundwater or bedrock is encountered, whichever is less.

- D) One boring shall drilled 15 feet out from the location of each boring drilled pursuant to Section 734.210(h)(2)(A) of this Part that produced one or more samples exceeding the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. If a boring cannot be drilled at a distance of 15 feet, it shall be drilled at a lesser distance that is as close as practicable to the 15-foot distance. Each boring shall be drilled to a depth of 30 feet, or until groundwater or bedrock is encountered, whichever is less.
- E) One boring shall drilled 15 feet out from the location of each boring drilled pursuant to Section 734.210(h)(2)(B) of this Part that produced one or more samples exceeding the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. If a boring cannot be drilled at a distance of 15 feet, it shall be drilled at a lesser distance that is as close as practicable to the 15-foot distance. Each boring shall be drilled to a depth of 15 feet, or until groundwater or bedrock is encountered, whichever is less.
- F) If auger refusal occurs during the drilling of a boring required under subsection (a)(1) of this Section, the boring shall be drilled in an alternate location that will allow the boring to be drilled to the required depth. The alternate location shall not be more than ten feet from the boring's original location. If auger refusal occurs during drilling of the boring in the alternate location, drilling of the boring shall cease and the soil samples collected from the location in which the boring was drilled to the greatest depth shall be analyzed for the applicable indicator contaminants.
- G) One soil sample shall be collected from each five-foot interval of each boring required under subsection (a)(1) of this Section. Each sample shall be collected from the location within the five-foot interval that is the most



contaminated as a result of the release. If an area of contamination cannot be identified within a five-foot interval, the sample shall be collected from the center of the five-foot interval. For borings required under subsection (a)(1)(B) of this Section, soil samples shall be collected only from soil located at or below the elevation of the UST excavation floor, provided, however, that soil samples shall not be collected from soil below the groundwater table. All samples shall be analyzed for the applicable indicator contaminants.

2) Groundwater investigation.

A) A groundwater investigation is required under the following circumstances:

- i) There is evidence that groundwater wells have been impacted by the release above the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
- ii) Free product that may impact groundwater is found to need recovery in compliance with Section 734.215 of this Part; or
- iii) There is evidence that contaminated soils may be or may have been in contact with groundwater, except that, if the owner or operator pumps the excavation or tank cavity dry, properly disposes of all contaminated water, and demonstrates to the Agency that no recharge is evident during the 24 hours following pumping, the owner or operator does not have to complete a groundwater investigation, unless the Agency's review reveals that further groundwater investigation is necessary.

B) If a groundwater investigation is required, the owner or operator shall install five groundwater monitoring wells. One monitoring well shall be installed in the location where groundwater contamination is most likely to be present. The four remaining wells shall be installed at the property boundary line or 200 feet from the UST system, whichever is less, in opposite directions from each other. The wells shall be installed in locations where they are most likely to detect groundwater contamination resulting

from the release and provide information regarding the groundwater gradient and direction of flow.

- C) If a soil sample collected pursuant to Section 734.210(h) of this Part, other than a soil sample collected pursuant to Section 734.210(h)(1)(B), exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants, soil samples shall be collected from the monitoring well installation boring drilled pursuant to subsection (a)(2)(B) of this Section that is located beyond the soil sample collected pursuant to Section 734.210(h) of this Part that exceeds objectives. The soil samples shall be collected from the five-foot intervals identified in subsections (i), (ii), and (iii) of this subsection (a)(2)(C). Each sample shall be collected from the location within a five-foot interval that is the most contaminated as a result of the release. If an area of contamination cannot be identified within a five-foot interval, the sample shall be collected from the center of the five-foot interval, provided, however, that soil samples shall not be collected from soil below the groundwater table. All samples shall be analyzed for the applicable indicator contaminants.
- i) One sample shall be collected from the five-foot interval intersecting the elevation of the soil sample collected pursuant to Section 734.210(h) of this Part that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants.
  - ii) One sample shall be collected from the five-foot interval immediately above the five-foot interval identified in subsection (a)(2)(C)(i) of this Section; and
  - iii) One sample shall be collected from the five-foot interval immediately below the five-foot interval identified in subsection (a)(2)(C)(i) of this Section.
- D) Following the installation of the groundwater monitoring wells, groundwater samples shall be collected from each well and analyzed for the applicable indicator contaminants.

- 3) An initial water supply well survey in accordance with Section 734.445(a) of this Part.
- b) The Stage 1 site investigation plan shall consist of a certification signed by the owner or operator, and by a Licensed Professional Engineer or Licensed Professional Geologist, that the Stage 1 site investigation will be conducted in accordance with this Section.
- c) If none of the samples collected as part of the Stage 1 site investigation exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants, the owner or operator shall cease site investigation and proceed with the submission of a site investigation completion report in accordance with Section 734.330 of this Part. If one or more of the samples collected as part of the Stage 1 site investigation exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants, within 30 days after completing the Stage 1 site investigation the owner or operator shall submit to the Agency for review a Stage 2 site investigation plan in accordance with Section 734.320 of this Part.

#### **Section 734.320      Stage 2 Site Investigation**

The Stage 2 site investigation shall be designed to complete the identification of the extent of soil and groundwater contamination at the site that, as a result of the release, exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. The investigation of any off-site contamination shall be conducted as part of the Stage 3 site investigation.

- a) The Stage 2 site investigation shall consist of the following:
  - 1) The additional drilling of soil borings and collection of soil samples necessary to identify the extent of soil contamination at the site that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. Soil samples shall be collected in appropriate locations and at appropriate depths, based upon the results of the soil sampling and other investigation activities conducted to date, provided, however, that soil samples shall not be collected below the groundwater table. All samples shall be analyzed for the applicable indicator contaminants; and
  - 2) The additional installation of groundwater monitoring wells and collection of groundwater samples necessary to identify the extent of groundwater contamination at the site that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. If soil samples are

collected from a monitoring well boring, the samples shall be collected in appropriate locations and at appropriate depths, based upon the results of the soil sampling and other investigation activities conducted to date, provided, however, that soil samples shall not be collected below the groundwater table. All samples shall be analyzed for the applicable indicator contaminants.

- b) The Stage 2 site investigation plan shall include, but not be limited to, the following:
  - 1) An executive summary of Stage 1 site investigation activities and actions proposed in the Stage 2 site investigation plan to complete the identification of the extent of soil and groundwater contamination at the site that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
  - 2) A characterization of the site and surrounding area, including, but not limited to, the following:
    - A) The current and post-remediation uses of the site and surrounding properties; and
    - B) The physical setting of the site and surrounding area including, but not limited to, features relevant to environmental, geographic, geologic, hydrologic, hydrogeologic, and topographic conditions;
  - 3) The results of the Stage 1 site investigation, including but not limited to the following:
    - A) One or more site maps meeting the requirements of Section 734.440 that show the locations of all borings and groundwater monitoring wells completed to date, and the groundwater flow direction;
    - B) One or more site maps meeting the requirements of Section 734.440 that show the locations of all samples collected to date and analyzed for the applicable indicator contaminants;
    - C) One or more site maps meeting the requirements of Section 734.440 that show the extent of soil and groundwater contamination at the site that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;

- D) One or more cross-sections of the site that show the geology of the site and the horizontal and vertical extent of soil and groundwater contamination at the site that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
  - E) Analytical results, chain of custody forms, and laboratory certifications for all samples analyzed for the applicable indicator contaminants as part of the Stage 1 site investigation;
  - F) One or more tables comparing the analytical results of the samples collected to date to the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
  - G) Water supply well survey documentation required pursuant to Section 734.445(d) of this Part for water supply well survey activities conducted as part of the Stage 1 site investigation; and
  - H) For soil boring logs and groundwater monitoring wells installed as part of the Stage 1 site investigation, soil boring logs and monitoring well construction diagrams meeting the requirements of Sections 734.425 and 734.430 of this Part; and
- 4) A Stage 2 sampling plan that includes, but shall not be limited to, the following:
- A) A narrative justifying the activities proposed as part of the Stage 2 site investigation;
  - B) A map depicting the location of additional soil borings and groundwater monitoring wells proposed to complete the identification of the extent of soil and groundwater contamination at the site that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants; and
  - C) The depth and construction details of the proposed soil borings and groundwater monitoring wells.
- c) If the owner or operator proposes no site investigation activities in the Stage 2 site investigation plan and none of the applicable indicator

contaminants that exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 as a result of the release extend beyond the site's property boundaries, upon submission of the Stage 2 site investigation plan the owner or operator shall cease site investigation and proceed with the submission of a site investigation completion report in accordance with Section 734.330 of this Part. If the owner or operator proposes no site investigation activities in the Stage 2 site investigation plan and applicable indicator contaminants that exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 as a result of the release extend beyond the site's property boundaries, within 30 days after the submission of the Stage 2 site investigation plan the owner or operator shall submit to the Agency for review a Stage 3 site investigation plan in accordance with Section 734.325 of this Part.

- d) If the results of a Stage 2 site investigation indicate that none of the applicable indicator contaminants that exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 as a result of the release extend beyond the site's property boundaries, upon completion of the Stage 2 site investigation the owner or operator shall cease site investigation and proceed with the submission of a site investigation completion report in accordance with Section 734.330 of this Part. If the results of the Stage 2 site investigation indicate that applicable indicator contaminants that exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 as a result of the release extend beyond the site's property boundaries, within 30 days after the completion of the Stage 2 site investigation the owner or operator shall submit to the Agency for review a Stage 3 site investigation plan in accordance with Section 734.325 of this Part.

### **Section 734.325      Stage 3 Site Investigation**

The Stage 3 site investigation shall be designed to identify the extent of off-site soil and groundwater contamination that, as a result of the release, exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants.

- a) The Stage 3 site investigation shall consist of the following:
  - 1) The drilling of soil borings and collection of soil samples necessary to identify the extent of soil contamination beyond the site's property boundaries that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. Soil samples shall be collected in appropriate locations and at appropriate depths, based upon the results of the soil sampling and other investigation activities conducted to date, provided, however, that soil samples shall not

be collected below the groundwater table. All samples shall be analyzed for the applicable indicator contaminants; and

- 2) The installation of groundwater monitoring wells and collection of groundwater samples necessary to identify the extent of groundwater contamination beyond the site's property boundaries that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. If soil samples are collected from a monitoring well boring, the samples shall be collected in appropriate locations and at appropriate depths, based upon the results of the soil sampling and other investigation activities conducted to date, provided, however, that soil samples shall not be collected below the groundwater table. All samples shall be analyzed for the applicable indicator contaminants.
- b) The Stage 3 site investigation plan shall include, but not be limited to, the following:
- 1) An executive summary of Stage 2 site investigation activities and actions proposed in the Stage 3 site investigation plan to identify the extent of soil and groundwater contamination beyond the site's property boundaries that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
  - 2) The results of the Stage 2 site investigation, including but not limited to the following:
    - A) One or more site maps meeting the requirements of Section 734.440 that show the locations of all borings and groundwater monitoring wells completed as part of the Stage 2 site investigation;
    - B) One or more site maps meeting the requirements of Section 734.440 that show the locations of all groundwater monitoring wells completed to date, and the groundwater flow direction;
    - C) One or more site maps meeting the requirements of Section 734.440 that show the extent of soil and groundwater contamination at the site that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;

- D) One or more cross-sections of the site that show the geology of the site and the horizontal and vertical extent of soil and groundwater contamination at the site that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
  - E) Analytical results, chain of custody forms, and laboratory certifications for all samples analyzed for the applicable indicator contaminants as part of the Stage 2 site investigation;
  - F) One or more tables comparing the analytical results of the samples collected to date to the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants; and
  - G) For soil boring logs and groundwater monitoring wells installed as part of the Stage 2 site investigation, soil boring logs and monitoring well construction diagrams meeting the requirements of Sections 734.425 and 734.430 of this Part; and
- 3) A Stage 3 sampling plan that includes, but shall not be limited to, the following:
- A) A narrative justifying the activities proposed as part of the Stage 3 site investigation;
  - B) A map depicting the location of soil borings and groundwater monitoring wells proposed to identify the extent of soil and groundwater contamination beyond the site's property boundaries that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants; and
  - C) The depth and construction details of the proposed soil borings and groundwater monitoring wells.
- c) Upon completion of the Stage 3 site investigation the owner or operator shall proceed with the submission of a site investigation completion report that meets the requirements of Section 734.330 of this Part.

**Section 734.330 Site Investigation Completion Report**

*Within 30 days after completing the site investigation, the owner or operator shall submit to the Agency for approval a site investigation completion report [415 ILCS*



5/57.7(a)(5)]. At a minimum, a site investigation completion report shall contain the following:

- a) A history of the site with respect to the release;
- b) A description of the site, including but not limited to the following:
  - 1) General site information, including but not limited to the site's and surrounding area's regional location; geography, hydrology, geology, hydrogeology, and topography; existing and potential migration pathways and exposure routes; and current and post-remediation uses;
  - 2) One or more maps meeting the requirements of Section 734.440 that show the locations of all borings and groundwater monitoring wells completed as part of site investigation, and the groundwater flow direction;
  - 3) One or more maps showing the horizontal extent of soil and groundwater contamination exceeding the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
  - 4) One or more map cross-sections showing the horizontal and vertical extent of soil and groundwater contamination exceeding the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
  - 5) Soil boring logs and monitoring well construction diagrams meeting the requirements of Sections 734.425 and 734.430 of this Part for all borings drilled and all groundwater monitoring wells installed as part of site investigation;
  - 6) Analytical results, chain of custody forms, and laboratory certifications for all samples analyzed for the applicable indicator contaminants as part of site investigation;
  - 7) A table comparing the analytical results of samples collected as part of site investigation to the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants; and
  - 8) The water supply well survey documentation required pursuant to Section 734.445(d) of this Part for water supply well survey activities conducted as part of site investigation; and

- c) A conclusion that includes, but is not limited to, an assessment of the sufficiency of the data in the report.

**Section 734.335 Corrective Action Plan**

- a) *If any of the applicable indicator contaminants exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants, within 30 days after the Agency approves the site investigation completion report, the owner or operator shall submit to the Agency for approval a corrective action plan designed to mitigate any threat to human health, human safety, or the environment resulting from the underground storage tank release. [415 ILCS 5/57.7(b)(2)].* The corrective action plan shall address all media impacted by the UST release and shall contain, at a minimum, the following information:
  - 1) An executive summary that identifies the objectives of the corrective action plan and the technical approach to be utilized to meet such objectives. At a minimum, the summary shall include the following information:
    - A) The major components (e.g., treatment, containment, removal) of the corrective action plan;
    - B) The scope of the problems to be addressed by the proposed corrective action, including but not limited to the specific indicator contaminants and the physical area; and
    - C) A schedule for implementation and completion of the plan;
  - 2) A statement of the remediation objectives proposed for the site;
  - 3) A description of the remedial technologies selected and how each fits into the overall corrective action strategy, including but not limited to the following:
    - A) The feasibility of implementing the remedial technologies;
    - B) Whether the remedial technologies will perform satisfactorily and reliably until the remediation objectives are achieved;
    - C) A schedule of when the remedial technologies are expected to achieve the applicable remediation objectives and a rationale for the schedule; and

- D) For alternative technologies, the information required under Section 734.340 of this Part;
- 4) A confirmation sampling plan that describes how the effectiveness of the corrective action activities will be monitored or measured during their implementation and after their completion;
  - 5) A description of the current and projected future uses of the site;
  - 6) A description of any engineered barriers or institutional controls proposed for the site that will be relied upon to achieve remediation objectives. The description shall include, but is not limited to, an assessment of their long-term reliability and operating and maintenance plans;
  - 7) A description of water supply well survey activities required pursuant to Sections 734.445(b) and (c) of this Part that were conducted as part of site investigation; and
  - 8) Appendices containing references and data sources relied upon in the report that are organized and presented logically, including but not limited to field logs, well logs, and reports of laboratory analyses.
- b) Any owner or operator intending to seek payment from the Fund shall, prior to conducting any corrective action activities beyond site investigation, submit to the Agency a corrective action budget with the corresponding corrective action plan. The budget shall include, but shall not be limited to, a copy of the eligibility and deductibility determination of the OSFM and an estimate of all costs associated with the development, implementation, and completion of the corrective action plan, excluding handling charges. The budget should be consistent with the eligible and ineligible costs listed at Sections 734.625 and 734.630 of this Part and the maximum payment amounts set forth in Subpart H of this Part. As part of the budget the Agency may require a comparison between the costs of the proposed method of remediation and other methods of remediation.
- c) *Upon the Agency's approval of a corrective action plan, or as otherwise directed by the Agency, the owner or operator shall proceed with corrective action in accordance with the plan [415 ILCS 5/57.7(b)(4)].*
- d) Notwithstanding any requirement under this Part for the submission of a corrective action plan or corrective action budget, except as provided at Section 734.340 of this Part, an owner or operator may proceed to conduct corrective action activities in accordance with this Subpart C prior to the submittal or approval of an otherwise required corrective action plan or

budget. However, any such plan and budget shall be submitted to the Agency for review and approval, rejection, or modification in accordance with the procedures contained in Subpart E of this Part prior to payment for any related costs or the issuance of a No Further Remediation Letter.

BOARD NOTE: Owners or operators proceeding under subsection (d) of this Section are advised that they may not be entitled to full payment from the Fund. Furthermore, applications for payment must be submitted no later than one year after the date the Agency issues a No Further Remediation Letter. See Subpart F of this Part.

- e) If, following approval of any corrective action plan or associated budget, an owner or operator determines that a revised plan or budget is necessary in order to mitigate any threat to human health, human safety, or the environment resulting from the underground storage tank release, the owner or operator shall submit, as applicable, an amended corrective action plan or associated budget to the Agency for review. The Agency shall review and approve, reject, or require modification of the amended plan or budget in accordance with Subpart E of this Part.

BOARD NOTE: Owners and operators are advised that the total payment from the Fund for all corrective action plans and associated budgets submitted by an owner or operator shall not exceed the amounts set forth in Subpart H of this Part.

### **Section 734.340      Alternative Technologies**

- a) An owner or operator may choose to use an alternative technology for corrective action in response to a release. Corrective action plans proposing the use of alternative technologies shall be submitted to the Agency in accordance with Section 734.335 of this Part. In addition to the requirements for corrective action plans contained in Section 734.335, the owner or operator who seeks approval of an alternative technology shall submit documentation along with the corrective action plan demonstrating that:
  - 1) The proposed alternative technology has a substantial likelihood of successfully achieving compliance with all applicable regulations and remediation objectives necessary to comply with the Act and regulations and to protect human health and safety and the environment;
  - 2) The proposed alternative technology will not adversely affect human health and safety or the environment;

- 3) The owner or operator will obtain all Agency permits necessary to legally authorize use of the alternative technology;
  - 4) The owner or operator will implement a program to monitor whether the requirements of subsection (a)(1) of this Section have been met; and
  - 5) Within one year from the date of Agency approval the owner or operator will provide to the Agency monitoring program results establishing whether the proposed alternative technology will successfully achieve compliance with the requirements of subsection (a)(1) of this Section and any other applicable regulations. The Agency may require interim reports as necessary to track the progress of the alternative technology. The Agency will specify in the approval when those interim reports shall be submitted to the Agency.
- b) An owner or operator intending to seek payment for costs associated with the use of an alternative technology shall submit a corresponding budget in accordance with Section 734.335 of this Part. In addition to the requirements for a corrective action budget at Section 734.335 of this Part, the budget must demonstrate that the cost of the alternative technology will not exceed the cost of conventional technology and is not substantially higher than other available alternative technologies.
  - c) If an owner or operator has received approval of a corrective action plan and associated budget from the Agency prior to implementing the plan and the alternative technology fails to satisfy the requirements of subsection (a)(1) or (a)(2) of this Section, such failure shall not make the owner or operator ineligible to seek payment for the activities associated with the subsequent performance of a corrective action using conventional technology. However, in no case shall the total payment for the site exceed the statutory maximums. Owners or operators implementing alternative technologies without obtaining pre-approval shall be ineligible to seek payment for the subsequent performance of a corrective action using conventional technology.
  - d) The Agency may require remote monitoring of an alternative technology. The monitoring may include, but shall not be limited to, monitoring the alternative technology's operation and progress in achieving the applicable remediation objectives.

**Section 734.345      Corrective Action Completion Report**

- a) *Within 30 days after the completion of a corrective action plan that achieves applicable remediation objectives the owner or operator shall*

*submit to the Agency for approval a corrective action completion report. The report shall demonstrate whether corrective action was completed in accordance with the approved corrective action plan and whether the remediation objectives approved for the site, as well as any other requirements of the plan, have been achieved [415 ILCS 57.7(b)(5)]. At a minimum, the report shall contain the following information:*

- 1) An executive summary that identifies the overall objectives of the corrective action and the technical approach utilized to meet those objectives. At a minimum, the summary shall contain the following information:
  - A) A brief description of the site, including but not limited to a description of the release, the applicable indicator contaminants, the contaminated media, and the extent of soil and groundwater contamination that exceeded the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
  - B) The major components (e.g., treatment, containment, removal) of the corrective action;
  - C) The scope of the problems corrected or mitigated by the corrective action; and
  - D) The anticipated post-corrective action uses of the site and areas immediately adjacent to the site;
- 2) A description of the corrective action activities conducted, including but not limited to the following:
  - A) A narrative description of the field activities conducted as part of corrective action;
  - B) A narrative description of the remedial actions implemented at the site and the performance of each remedial technology utilized;
  - C) Documentation of sampling activities conducted as part of corrective action, including but not limited to the following:
    - i) Sample collection information, including but not limited to the sample collector's name, the date and time of sample collection, the collection method, and the sample location;

- ii) Sample preservation and shipment information, including but not limited to field quality control;
    - iii) Analytical procedure information, including but not limited to the method detection limits and the practical quantitation limits;
    - iv) Chain of custody and control; and
    - v) Field and lab blanks; and
  - D) Soil boring logs and monitoring well construction diagrams meeting the requirements of Sections 734.425 and 734.430 of this Part for all borings drilled and all groundwater monitoring wells installed as part of corrective action;
- 3) A narrative description of any special conditions relied upon as part of corrective action, including but not limited to information regarding the following:
- A) Engineered barriers utilized in accordance with 35 Ill. Adm. Code 742 to achieve the approved remediation objectives;
  - B) Institutional controls utilized in accordance with 35 Ill. Adm. Code 742 to achieve the approved remediation objectives, including but not limited to a legible copy of any such controls;
  - C) Other conditions, if any, necessary for protection of human health and safety and the environment that are related to the issuance of a No Further Remediation Letter; and
  - D) Any information required pursuant to Section 734.350 of this Part regarding off-site access;
- 4) An analysis of the effectiveness of the corrective action that compares the confirmation sampling results to the remediation objectives approved for the site. The analysis shall present the remediation objectives in an appropriate format (e.g., tabular and graphical displays) such that the information is organized and presented logically and the relationships between the different investigations for each medium are apparent;

- 5) A conclusion that identifies the success in meeting the remediation objectives approved for the site, including but not limited to an assessment of the accuracy and completeness of the data in the report;
  - 6) Appendices containing references and data sources relied upon in the report that are organized and presented logically, including but not limited to field logs, well logs, and reports of laboratory analyses;
  - 7) The water supply well survey documentation required pursuant to Section 734.445(d) of this Part for water supply well survey activities conducted as part of corrective action; and
  - 8) A site map containing only the information required under Section 734.440 of this Part. The site map shall also show any engineered barriers utilized to achieve remediation objectives.
- b) The owner or operator is not required to perform remedial action on an off-site property, even where complete performance of a corrective action plan would otherwise require such off-site action, if the Agency determines that the owner or operator is unable to obtain access to the property despite the use of best efforts in accordance with the requirements of Section 734.350 of this Part.

**Section 734.350      Off-site Access**

- a) An owner or operator seeking to comply with the best efforts requirements of Section 734.345(b) of this Part must demonstrate compliance with the requirements of this Section.
- b) In conducting best efforts to obtain off-site access, an owner or operator must, at a minimum, send a letter by certified mail to the owner of any off-site property to which access is required, stating:
  - 1) Citation to Title XVI of the Act stating the legal responsibility of the owner or operator to remediate the contamination caused by the release;
  - 2) That, if the property owner denies access to the owner or operator, the owner or operator may seek to gain entry by a court order pursuant to Section 22.2c of the Act;
  - 3) That, in performing the requested investigation, the owner or operator will work so as to minimize any disruption on the



property, will maintain, or its consultant will maintain, appropriate insurance and will repair any damage caused by the investigation;

- 4) If contamination results from a release by the owner or operator, the owner or operator will conduct all associated remediation at its own expense;
  - 5) That threats to human health and the environment and diminished property value may result from failure to remediate contamination from the release; and
  - 6) A reasonable time to respond to the letter, not less than 30 days.
- c) An owner or operator, in demonstrating that the requirements of this Section have been met, must provide to the Agency, as part of the corrective action completion report, the following documentation:
- 1) A sworn affidavit, signed by the owner or operator, identifying the specific off-site property involved by address, the measures proposed in the corrective action plan that require off-site access, and the efforts taken to obtain access, and stating that the owner or operator has been unable to obtain access despite the use of best efforts; and
  - 2) A copy of the certified letter sent to the owner of the off-site property pursuant to subsection (b) of this Section.
- d) In determining whether the efforts an owner or operator has made constitute best efforts to obtain access, the Agency must consider the following factors:
- 1) The physical and chemical characteristics, including toxicity, persistence and potential for migration, of applicable indicator contaminants at the property boundary line;
  - 2) The hydrogeological characteristics of the site and the surrounding area, including the attenuation capacity and saturation limits of the soil at the property boundary line;
  - 3) The nature and extent of known contamination at the site, including the levels of applicable indicator contaminants at the property boundary line;
  - 4) The potential effects of residual contamination on nearby surface water and groundwater;

- 5) The proximity, quality and current and future uses of nearby surface water and groundwater, including regulated recharge areas, wellhead protection areas, and setback zones of a potable water supply wells;
  - 6) Any known or suspected natural or man-made migration pathways existing in or near the suspected area of off-site contamination;
  - 7) The nature and use of the part of the off-site property that is the suspected area of contamination;
  - 8) Any existing on-site engineered barriers or institutional controls that might have an impact on the area of suspected off-site contamination, and the nature and extent of such impact; and
  - 9) Any other applicable information assembled in compliance with this Part.
- e) The Agency shall issue a No Further Remediation Letter to an owner or operator subject to this Section and otherwise entitled to such issuance only if the owner or operator has, in accordance with this Section, either completed any requisite off-site corrective action or demonstrated to the Agency's satisfaction an inability to obtain off-site access despite best efforts.
  - f) The owner or operator is not relieved of responsibility to clean up a release that has migrated beyond the property boundary even where off-site access is denied.

**Section 734.355      Status Report**

- a) *If within 4 years after the approval of any corrective action plan the applicable remediation objectives have not been achieved and the owner or operator has not submitted a corrective action completion report, the owner or operator must submit a status report for Agency review. The status report must include, but is not limited to, a description of the remediation activities taken to date, the effectiveness of the method of remediation being used, the likelihood of meeting the applicable remediation objectives using the current method of remediation, and the date the applicable remediation objectives are expected to be achieved [415 ILCS 5/57.7(b)(6)].*
- b) *If the Agency determines any approved corrective action plan will not achieve applicable remediation objectives within a reasonable time, based upon the method of remediation and site specific circumstances, the Agency may require the owner or operator to submit to the Agency for*

*approval a revised corrective action plan. If the owner or operator intends to seek payment from the Fund, the owner or operator must also submit a revised budget [415 ILCS 5/57.7(b)(7)]. The revised corrective action plan and any associated budget shall be submitted in accordance with Section 734.335 of this Part.*

- c) Any action by the Agency to require a revised corrective action plan pursuant to subsection (b) of this Section shall be subject to appeal to the Board within 35 days after the Agency's final action in the manner provided for the review of permit decisions in Section 40 of the Act.

#### **SUBPART D: MISCELLANEOUS PROVISIONS**

##### **Section 734.400      General**

This Subpart D applies to all activities conducted under this Part and all plans, budgets, reports, and other documents submitted under this Part.

##### **Section 734.405      Indicator Contaminants**

- a) For purposes of this Part, the term "indicator contaminants" shall mean the parameters identified in subsections (b) through (i) of this Section.
- b) For gasoline, including but not limited to leaded, unleaded, premium and gasohol, the indicator contaminants shall be benzene, ethylbenzene, toluene, total xylenes, and methyl tertiary butyl ether (MTBE), except as provided in subsection (h) of this Section. For leaded gasoline, lead shall also be an indicator contaminant.
- c) For aviation turbine fuels, jet fuels, diesel fuels, gas turbine fuel oils, heating fuel oils, illuminating oils, kerosene, lubricants, liquid asphalt and dust laying oils, cable oils, crude oil, crude oil fractions, petroleum feedstocks, petroleum fractions, and heavy oils, the indicator contaminants shall be benzene, ethylbenzene, toluene, total xylenes, and the polynuclear aromatics listed in Section 734.Appendix B of this Part. For leaded aviation turbine fuels, lead shall also be an indicator contaminant.
- d) For transformer oils the indicator contaminants shall be benzene, ethylbenzene, toluene, total xylenes, and the polynuclear aromatics and the polychlorinated biphenyl parameters listed in Section 734.Appendix B of this Part.
- e) For hydraulic fluids the indicator contaminants shall be benzene, ethylbenzene, toluene, total xylenes, the polynuclear aromatics listed in Section 734.Appendix B of this Part, and barium.

- f) For petroleum spirits, mineral spirits, Stoddard solvents, high-flash aromatic naphthas, moderately volatile hydrocarbon solvents, and petroleum extender oils, the indicator contaminants shall be the volatile, base/neutral and polynuclear aromatic parameters listed in Section 734.Appendix B of this Part. The Agency may add degradation products or mixtures of any of the above pollutants in accordance with 35 Ill. Adm. Code 620.615.
  
- g) For used oil, the indicator contaminants shall be determined by the results of a used oil soil sample analysis. In accordance with Section 734.210(h) of this Part, soil samples shall be collected from the walls and floor of the used oil UST excavation if the UST is removed, or from borings drilled along each side of the used oil UST if the UST remains in place. The sample that appears to be the most contaminated as a result of a release from the used oil UST shall then be analyzed for the following parameters. If none of the samples appear to be contaminated a soil sample shall be collected from the floor of the used oil UST excavation below the former location of the UST if the UST is removed, or from soil located at the same elevation as the bottom of the used oil UST if the UST remains in place, and analyzed for the following parameters:
  - 1) All volatile, base/neutral, polynuclear aromatic, and metal parameters listed at Section 734.Appendix B of this Part and any other parameters the Licensed Professional Engineer or Licensed Professional Geologist suspects may be present based on UST usage. The Agency may add degradation products or mixtures of any of the above pollutants in accordance with 35 Ill. Adm. Code 620.615.
  
  - 2) The used oil indicator contaminants shall be those volatile, base/neutral, and metal parameters listed at Section 734.Appendix B of this Part or as otherwise identified at subsection (g)(1) of this Section that exceed their remediation objective at 35 Ill. Adm. Code 742 in addition to benzene, ethylbenzene, toluene, total xylenes, and polynuclear aromatics listed in Section 734.Appendix B of this Part.
  
  - 3) If none of the parameters exceed their remediation objective, the used oil indicator contaminants shall be benzene, ethylbenzene, toluene, total xylenes, and the polynuclear aromatics listed in Section 734.Appendix B of this Part.
  
- h) Unless an owner or operator elects otherwise pursuant to subsection (i) of this Section, the term “indicator contaminants” shall not include MTBE for any release reported to the Illinois Emergency Management Agency

prior to June 1, 2002 (the effective date of amendments establishing MTBE as an indicator contaminant).

- i) An owner or operator exempt from having to address MTBE as an indicator contaminant pursuant to subsection (h) of this Section may elect to include MTBE as an indicator contaminant under the circumstances listed in subsections (1) or (2) of this subsection (i). Elections to include MTBE as an indicator contaminant shall be made by submitting to the Agency a written notification of such election signed by the owner or operator. The election shall be effective upon the Agency's receipt of the notification and shall not be withdrawn once made. Owners or operators electing to include MTBE as an indicator contaminant shall remediate MTBE contamination in accordance with the requirements of this Part.
  - 1) If the Agency has not issued a No Further Remediation Letter for the release; or
  - 2) If the Agency has issued a No Further Remediation Letter for the release and the release has caused off-site groundwater contamination exceeding the remediation objective for MTBE set forth in 35 Ill. Adm. Code 742.

#### **Section 734.410 Remediation Objectives**

The owner or operator shall propose remediation objectives for applicable indicator contaminants in accordance with 35 Ill. Adm. Code 742.

#### **Section 734.415 Data Quality**

- a) The following activities shall be conducted in accordance with "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," EPA Publication No. SW-846, incorporated by reference at Section 734.120 of this Part, or other procedures as approved by the Agency:
  - 1) All field sampling activities, including but not limited to activities relative to sample collection, documentation, preparation, labeling, storage and shipment, security, quality assurance and quality control, acceptance criteria, corrective action, and decontamination procedures;
  - 2) All field measurement activities, including but not limited to activities relative to equipment and instrument operation, calibration and maintenance, corrective action, and data handling; and

- 3) All quantitative analysis of samples to determine concentrations of indicator contaminants, including but not limited to activities relative to facilities, equipment and instrumentation, operating procedures, sample management, test methods, equipment calibration and maintenance, quality assurance and quality control, corrective action, data reduction and validation, reporting, and records management. Analyses of samples that require more exacting detection limits than, or that cannot be analyzed by standard methods identified in, "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," EPA Publication No. SW-846, shall be conducted in accordance with analytical protocols developed in consultation with and approved by the Agency.
- b) The analytical methodology used for the analysis of indicator contaminants shall have a practical quantitation limit at or below the objectives or detection levels set forth in 35 Ill. Adm. Code 742 or determined by the Agency pursuant to Section 734.410 of this Part.
- c) All field or laboratory measurements of samples to determine physical or geophysical characteristics shall be conducted in accordance with applicable ASTM standards incorporated by reference at 35 Ill. Adm. Code 742.210, or other procedures as approved by the Agency.

**Section 734.420      Laboratory Certification**

All quantitative analyses of samples collected on or after January 1, 2003, and utilizing any of the approved test methods identified in 35 Ill. Adm. Code 186.180 shall be completed by an accredited laboratory in accordance with the requirements of 35 Ill. Adm. Code 186. A certification from the accredited laboratory stating that the samples were analyzed in accordance with the requirements of this Section shall be included with the sample results when they are submitted to the Agency. Quantitative analyses not utilizing an accredited laboratory in accordance with Part 186 shall be deemed invalid.

**Section 734.425      Soil Borings**

- a) Soil borings shall be continuously sampled to ensure that no gaps appear in the sample column.
- b) Any water bearing unit encountered shall be protected as necessary to prevent cross-contamination during drilling.
- c) Soil boring logs shall be kept for all soil borings. The logs shall be submitted in the corresponding site investigation plan, site investigation completion report, or corrective action completion report on forms prescribed and provided by the Agency and, if specified by the Agency in

writing, in an electronic format. At a minimum, soil boring logs shall contain the following information:

- 1) Sampling device, sample number, and amount of recovery;
- 2) Total depth of boring to the nearest 6 inches;
- 3) Detailed field observations describing materials encountered in boring, including but not limited to soil constituents, consistency, color, density, moisture, odors, and the nature and extent of sand or gravel lenses or seams equal to or greater than 1 inch in thickness;
- 4) Petroleum hydrocarbon vapor readings (as determined by continuous screening of borings with field instruments capable of detecting such vapors);
- 5) Locations of sample(s) used for physical or chemical analysis;
- 6) Groundwater levels while boring and at completion; and
- 7) Unified Soil Classification System (USCS) soil classification group symbol in accordance with ASTM Standard D 2487-93, "Standard Test Method for Classification of Soils for Engineering Purposes," incorporated by reference in Section 734.120 of this Part, or other Agency approved method.

**Section 734.430      Monitoring Well Construction and Sampling**

- a) At a minimum, all monitoring well construction shall satisfy the following requirements:
  - 1) Wells shall be constructed in a manner that will enable the collection of representative groundwater samples;
  - 2) Wells shall be cased in a manner that maintains the integrity of the borehole. Casing material shall be inert so as not to affect the water sample. Casing requiring solvent-cement type couplings shall not be used;
  - 3) Wells shall be screened to allow sampling only at the desired interval. Annular space between the borehole wall and well screen section shall be packed with clean, well-rounded and uniform material sized to avoid clogging by the material in the zone being monitored. The slot size of the screen shall be designed to minimize clogging. Screens shall be fabricated from material that

is inert with respect to the constituents of the groundwater to be sampled;

- 4) Annular space above the well screen section shall be sealed with a relatively impermeable, expandable material such as cement/bentonite grout that does not react with or in any way affect the sample, in order to prevent contamination of groundwater samples and groundwater and avoid interconnections. The seal shall extend to the highest known seasonal groundwater level;
  - 5) The annular space shall be backfilled with expanding cement grout from an elevation below the frost line and mounded above the surface and sloped away from the casing so as to divert surface water away;
  - 6) Wells shall be covered with vented caps and equipped with devices to protect against tampering and damage. Locations of wells shall be clearly marked and protected against damage from vehicular traffic or other activities associated with expected site use; and
  - 7) Wells shall be developed to allow free entry of groundwater, minimize turbidity of the sample, and minimize clogging.
- b) Monitoring well construction diagrams shall be completed for each monitoring well. The well construction diagrams shall be submitted in the corresponding site investigation plan, site investigation completion report, or corrective action completion report on forms prescribed and provided by the Agency and, if specified by the Agency in writing, in an electronic format.
- c) Static groundwater elevations in each well shall be determined and recorded following well construction and prior to each sample collection to determine the gradient of the groundwater table, and shall be reported in the corresponding site investigation plan, site investigation completion report or corrective action completion report.

#### **Section 734.435      Sealing of Soil Borings and Groundwater Monitoring Wells**

Boreholes and monitoring wells shall be abandoned pursuant to regulations promulgated by the Illinois Department of Public Health at 77 Ill. Adm. Code 920.120.

#### **Section 734.440      Site Map Requirements**

At a minimum, all site maps submitted to the Agency shall meet the following requirements:



- a) The maps shall be of sufficient detail and accuracy to show required information;
- b) The maps shall contain the map scale, an arrow indicating north orientation, and the date the map was created; and
- c) The maps shall show the following:
  - 1) The property boundary lines of the site, properties adjacent to the site, and other properties that are, or may be, adversely affected by the release;
  - 2) The uses of the site, properties adjacent to the site, and other properties that are, or may be, adversely affected by the release;
  - 3) The locations of all current and former USTs at the site, and the contents of each UST; and
  - 4) All structures, other improvements, and other features at the site, properties adjacent to the site, and other properties that are, or may be, adversely affected by the release, including but not limited to buildings, pump islands, canopies, roadways and other paved areas, utilities, easements, rights-of-way, and actual or potential natural or man-made pathways.

**Section 734.445 Water Supply Well Survey**

- a) At a minimum, the owner or operator shall conduct a water supply well survey to identify all potable water supply wells located at the site or within 200 feet of the site, all community water supply wells located at the site or within 2,500 feet of the site, and all regulated recharge areas and wellhead protection areas in which the site is located. Actions taken to identify the wells shall include, but not be limited to, the following:
  - 1) Contacting the Agency's Division of Public Water Supplies to identify community water supply wells, regulated recharge areas, and wellhead protection areas;
  - 2) Contacting the Illinois State Geological Survey, the Illinois State Water Survey, and the Illinois Department of Public Health (or the county or local health department delegated by the Illinois Department of Public Health to permit potable water supply wells) to identify potable water supply wells other than community water supply wells; and

- 3) Contacting the local public water supply entities to identify properties that receive potable water from a public water supply.
- b) In addition to the potable water supply wells identified pursuant to subsection (a) of this Section, the owner or operator shall extend the water supply well survey if soil or groundwater contamination exceeding the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants extends beyond the site's property boundary, or, as part of a corrective action plan, the owner or operator proposes to leave in place soil or groundwater contamination exceeding the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants and contamination exceeding such objectives is modeled to migrate beyond the site's property boundary. At a minimum, the extended water supply well survey shall identify the following:
    - 1) All potable water supply wells located within 200 feet, and all community water supply wells located within 2,500 feet, of the current or modeled extent of soil or groundwater contamination exceeding the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants; and
    - 2) All regulated recharge areas and wellhead protection areas in which the current or modeled extent of soil or groundwater contamination exceeding the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants is located.
  - c) The Agency may require additional investigation of potable water supply wells, regulated recharge areas, or wellhead protection areas if site-specific circumstances warrant. Such circumstances shall include, but not be limited to, the existence of one or more parcels of property within 200 feet of the current or modeled extent of soil or groundwater contamination exceeding the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants where potable water is likely to be used, but that is not served by a public water supply or a well identified pursuant to subsections (a) or (b) of this Section. The additional investigation may include, but shall not be limited to, physical well surveys (e.g., interviewing property owners, investigating individual properties for wellheads, distributing door hangers or other material that requests information about the existence of potable wells on the property, etc.).
  - d) Documentation of the water supply well survey conducted pursuant to this Section shall include, but not be limited to, the following:

- 1) One or more maps, to an appropriate scale, showing the following:
  - A) The location of the community water supply wells and other potable water supply wells identified pursuant to this Section, and the setback zone for each well;
  - B) The location and extent of regulated recharge areas and wellhead protection areas identified pursuant to this Section;
  - C) The current extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants; and
  - D) The modeled extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. The information required under this subsection (D) is not required to be shown in a site investigation report if modeling is not performed as part of site investigation;
- 2) One or more tables listing the setback zones for each community water supply well and other potable water supply wells identified pursuant to this Section;
- 3) A narrative that, at a minimum, identifies each entity contacted to identify potable water supply wells pursuant to this Section, the name and title of each person contacted at each entity, and field observations associated with the identification of potable water supply wells; and
- 4) A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the water supply well survey was conducted in accordance with the requirements of this Section and that the documentation submitted pursuant to subsection (d) of this Section includes the information obtained as a result of the survey.

**Section 734.450      Deferred Site Investigation or Corrective Action; Priority List for Payment**

- a) An owner or operator who has received approval for any budget submitted pursuant to this Part and who is eligible for payment from the Fund may elect to defer site investigation or corrective action activities until funds

are available in an amount equal to the amount approved in the budget if the requirements of subsection (b) of this Section are met.

- 1) Approvals of budgets shall be pursuant to Agency review in accordance with Subpart E of this Part.
- 2) The Agency shall monitor the availability of funds and shall provide notice of insufficient funds to owners or operators in accordance with Section 734.505(g) of this Part.
- 3) Owners and operators shall submit elections to defer site investigation or corrective action activities on forms prescribed and provided by the Agency and, if specified by the Agency by written notice, in an electronic format. The Agency's record of the date of receipt shall be deemed conclusive unless a contrary date is proven by a dated, signed receipt from certified or registered mail.
- 4) The Agency shall review elections to defer site investigation or corrective action activities to determine whether the requirements of subsection (b) of this Section are met. The Agency shall notify the owner or operator in writing of its final action on any such election. If the Agency fails to notify the owner or operator of its final action within 120 days after its receipt of the election, the owner or operator may deem the election rejected by operation of law.
  - A) The Agency shall mail notices of final action on an election to defer by registered or certified mail, post marked with a date stamp and with return receipt requested. Final action shall be deemed to have taken place on the post marked date that such notice is mailed.
  - B) Any action by the Agency to reject an election, or the rejection of an election by the Agency's failure to act, is subject to appeal to the Board within 35 days after the Agency's final action in the manner provided for the review of permit decisions in Section 40 of the Act.
- 5) Upon approval of an election to defer site investigation or corrective action activities until funds are available, the Agency shall place the site on a priority list for payment and notification of availability of sufficient funds. Sites shall enter the priority list for payment based solely on the date the Agency receives a complete written election of deferral, with the earliest dates having the highest priority.

- 6) As funds become available the Agency shall encumber funds for each site in the order of priority in an amount equal to the total of the approved budget for which deferral was sought. The Agency shall then notify owners or operators that sufficient funds have been allocated for the owner or operator's site. After such notification the owner or operator shall commence site investigation or corrective action activities.
  - 7) Authorization of payment of encumbered funds for deferred site investigation or corrective action activities shall be approved in accordance with the requirements of Subpart F of this Part.
- b) An owner or operator who elects to defer site investigation or corrective action activities under subsection (a) of this Section shall submit a report certified by a Licensed Professional Engineer or Licensed Professional Geologist demonstrating the following:
- 1) The Agency has approved the owner's or operator's site investigation budget or corrective action budget;
  - 2) The owner or operator has been determined eligible to seek payment from the Fund;
  - 3) The early action requirements of Subpart B of this Part have been met;
  - 4) Groundwater contamination does not exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants as a result of the release, modeling accordance with 35 Ill. Adm. Code 742 shows that groundwater contamination will not exceed such Tier 1 remediation objectives as a result of the release, and no potable water supply wells are impacted as a result of the release; and
  - 5) Soil contamination exceeding the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants does not extend beyond the site's property boundary and is not located within a regulated recharge area, a wellhead protection area, or the setback zone of a potable water supply well. Documentation to demonstrate that this subsection (b)(5) is satisfied shall include, but not be limited to, the results of a water supply well survey conducted in accordance with Section 734.445 of this Part.
- c) An owner or operator may, at any time, withdraw the election to defer site investigation or corrective action activities. The Agency shall be notified

in writing of the withdrawal. Upon such withdrawal, the owner or operator shall proceed with site investigation or corrective action, as applicable, in accordance with the requirements of this Part.

## **SUBPART E: REVIEW OF PLANS, BUDGETS, AND REPORTS**

### **Section 734.500      General**

The Agency shall have the authority to review any plan, budget, or report, including any amended plan, budget, or report, submitted pursuant to this Part. All such reviews shall be subject to the procedures set forth in the Act and this Subpart E.

### **Section 734.505      Review of Plans, Budgets, or Reports**

- a) The Agency may review any or all technical or financial information, or both, relied upon by the owner or operator or the Licensed Professional Engineer or Licensed Professional Geologist in developing any plan, budget, or report selected for review. The Agency may also review any other plans, budgets, or reports submitted in conjunction with the site.
- b) The Agency shall have the authority to approve, reject, or require modification of any plan, budget, or report it reviews. The Agency shall notify the owner or operator in writing of its final action on any such plan, budget, or report, except in the case of 20 day, 45 day, or free product removal reports, in which case no notification is necessary. Except as provided in subsections (c) and (d) of this Section, if the Agency fails to notify the owner or operator of its final action on a plan, budget, or report within 120 days after the receipt of a plan, budget, or report, the owner or operator may deem the plan, budget, or report rejected by operation of law. If the Agency rejects a plan, budget, or report or requires modifications, the written notification shall contain the following information, as applicable:
  - 1) An explanation of the specific type of information, if any, that the Agency needs to complete its review;
  - 2) An explanation of the Sections of the Act or regulations that may be violated if the plan, budget, or report is approved; and
  - 3) A statement of specific reasons why the cited Sections of the Act or regulations may be violated if the plan, budget, or report is approved.
- c) For corrective action plans submitted by owners or operators not seeking payment from the Fund, the Agency may delay final action on such plans

until 120 days after it receives the corrective action completion report required pursuant to Section 734.345 of this Part.

- d) An owner or operator may waive the right to a final decision within 120 days after the submittal of a complete plan, budget, or report by submitting written notice to the Agency prior to the applicable deadline. Any waiver shall be for a minimum of 60 days.
- e) The Agency shall mail notices of final action on plans, budgets, or reports by registered or certified mail, post marked with a date stamp and with return receipt requested. Final action shall be deemed to have taken place on the post marked date that such notice is mailed.
- f) Any action by the Agency to reject or require modifications, or rejection by failure to act, of a plan, budget, or report shall be subject to appeal to the Board within 35 days after the Agency's final action in the manner provided for the review of permit decisions in Section 40 of the Act.
- g) In accordance with Section 734.450 of this Part, upon the approval of any budget by the Agency, the Agency shall include as part of the final notice to the owner or operator a notice of insufficient funds if the Fund does not contain sufficient funds to provide payment of the total costs approved in the budget.

**Section 734.510      Standards for Review of Plans, Budgets, or Reports**

- a) A technical review shall consist of a detailed review of the steps proposed or completed to accomplish the goals of the plan and to achieve compliance with the Act and regulations. Items to be reviewed, if applicable, shall include, but not be limited to, number and placement of wells and borings, number and types of samples and analysis, results of sample analysis, and protocols to be followed in making determinations. The overall goal of the technical review for plans shall be to determine if the plan is sufficient to satisfy the requirements of the Act and regulations and has been prepared in accordance with generally accepted engineering practices or principles of professional geology. The overall goal of the technical review for reports shall be to determine if the plan has been fully implemented in accordance with generally accepted engineering practices or principles of professional geology, if the conclusions are consistent with the information obtained while implementing the plan, and if the requirements of the Act and regulations have been satisfied.
- b) A financial review shall consist of a detailed review of the costs associated with each element necessary to accomplish the goals of the plan as required pursuant to the Act and regulations. Items to be reviewed shall include, but not be limited to, costs associated with any materials,

activities, or services that are included in the budget. The overall goal of the financial review shall be to assure that costs associated with materials, activities, and services shall be reasonable, shall be consistent with the associated technical plan, shall be incurred in the performance of corrective action activities, shall not be used for corrective action activities in excess of those necessary to meet the minimum requirements of the Act and regulations, and shall not exceed the maximum payment amounts set forth in Subpart H of this Part.

## **SUBPART F: PAYMENT FROM THE FUND**

### **Section 734.600      General**

The Agency shall have the authority to review any application for payment or reimbursement and to authorize payment or reimbursement from the Fund or such other funds as the legislature directs for corrective action activities conducted pursuant to the Act and this Part. For purposes of this Part and unless otherwise provided, the use of the word “payment” shall include reimbursement. The submittal and review of applications for payment and the authorization for payment shall be in accordance with the procedures set forth in the Act and this Subpart F.

### **Section 734.605      Applications for Payment**

- a) An owner or operator seeking payment from the Fund shall submit to the Agency an application for payment on forms prescribed and provided by the Agency and, if specified by the Agency by written notice, in an electronic format. The owner or operator may submit an application for partial payment or final payment. Costs for which payment is sought must be approved in a budget, provided, however, that no budget shall be required for early action activities conducted pursuant to Subpart B of this Part other than free product removal activities conducted more than 45 days after confirmation of the presence of free product.
- b) A complete application for payment shall consist of the following elements:
  - 1) A certification from a Licensed Professional Engineer or a Licensed Professional Geologist acknowledged by the owner or operator that the work performed has been in accordance with a technical plan approved by the Agency or, for early action activities, in accordance with Subpart B of this Part;
  - 2) A statement of the amounts approved in the corresponding budget and the amounts actually sought for payment along with a certified statement by the owner or operator that the amounts so sought



have been expended in conformance with the elements of a budget approved by the Agency;

- 3) A copy of the OSFM or Agency eligibility and deductibility determination;
  - 4) Proof that approval of the payment requested will not exceed the limitations set forth in the Act and Section 734.620 of this Part;
  - 5) A federal taxpayer identification number and legal status disclosure certification;
  - 6) Private insurance coverage form(s);
  - 7) A minority/women's business form;
  - 8) Designation of the address to which payment and notice of final action on the application for payment are to be sent;
  - 9) An accounting of all costs, including but not limited to, invoices, receipts, and supporting documentation showing the dates and descriptions of the work performed;
  - 10) Proof of payment of subcontractor costs for which handling charges are requested; and
  - 11) If the owner or operator requests costs for one or more quantitative analyses of samples required to be certified pursuant to Section 734.420 of this Part, a copy of the accredited laboratory certification required pursuant to that Section.
- c) The address designated on the application for payment may be changed only by subsequent notification to the Agency, on a form provided by the Agency, of a change in address.
  - d) Applications for payment and change of address forms shall be mailed or delivered to the address designated by the Agency. The Agency's record of the date of receipt shall be deemed conclusive unless a contrary date is proven by a dated, signed receipt from certified or registered mail.
  - e) Applications for partial or final payment may be submitted no more frequently than once every 90 days.
  - f) Except for applications for payment for costs of early action conducted pursuant to Subpart B of this Part, other than costs associated with free product removal activities conducted more than 45 days after confirmation

of the presence of free product, in no case shall the Agency review an application for payment unless there is an approved budget on file corresponding to the application for payment.

- g) In no case shall the Agency authorize payment to an owner or operator in amounts greater than the amounts approved by the Agency in a corresponding budget. Revised cost estimates or increased costs resulting from revised procedures must be submitted to the Agency for review in accordance with Subpart E of this Part using amended budgets as required under this Part.
- h) Applications for payment of costs associated with a Stage 1, Stage 2, or Stage 3 site investigation may not be submitted prior to the approval or modification of a site investigation plan for the next stage of the site investigation or the site investigation completion report, whichever is applicable.
- i) Applications for payment of costs associated with site investigation or corrective action that was deferred pursuant to Section 734.450 of this Part may not be submitted prior to approval or modification of the corresponding site investigation plan, site investigation completion report, or corrective action completion report.
- j) All budgets, budget amendments, and applications for payment of corrective action costs shall be submitted no later than one year after the date the Agency issues a No Further Remediation Letter pursuant to Subpart G of this Part. For releases for which the Agency issued a No Further Remediation Letter prior to the effective date of this subsection (j), all budgets, budget amendments, and applications for payment shall be submitted no later than one year after the effective date of this subsection (j).

**Section 734.610      Review of Applications for Payment**

- a) At a minimum, the Agency shall review each application for payment submitted pursuant to this Part to determine the following:
  - 1) whether the application contains all of the elements and supporting documentation required by Section 734.605(b) of this Part;
  - 2) for costs incurred pursuant to Subpart B of this Part, other than free product removal activities conducted more than 45 days after confirmation of the presence of free product, whether the amounts sought are reasonable, and whether there is sufficient documentation to demonstrate that the work was completed in accordance with the requirements of this Part;

- 3) for costs incurred pursuant to Subpart C of this Part and free product removal activities conducted more than 45 days after confirmation of the presence of free product, whether the amounts sought exceed the amounts approved in the corresponding budget, and whether there is sufficient documentation to demonstrate that the work was completed in accordance with the requirements of this Part and a plan approved by the Agency; and
  - 4) Whether the amounts sought are eligible for payment.
- b) When conducting a review of any application for payment, the Agency may require the owner or operator to submit a full accounting supporting all claims as provided in subsection (c) of this Section.
  - c) The Agency's review may include a review of any or all elements and supporting documentation relied upon by the owner or operator in developing the application for payment, including but not limited to a review of invoices or receipts supporting all claims. The review also may include the review of any plans, budgets, or reports previously submitted for the site to ensure that the application for payment is consistent with work proposed and actually performed in conjunction with the site.
  - d) Following a review, the Agency shall have the authority to approve, deny or require modification of applications for payment or portions thereof. The Agency shall notify the owner or operator in writing of its final action on any such application for payment. Except as provided in subsection (e) of this Section, if the Agency fails to notify the owner or operator of its final action on an application for payment within 120 days after the receipt of a complete application for payment, the owner or operator may deem the application for payment approved by operation of law. If the Agency denies payment for an application for payment or for a portion thereof or requires modification, the written notification shall contain the following information, as applicable:
    - 1) An explanation of the specific type of information, if any, that the Agency needs to complete the review;
    - 2) An explanation of the Sections of the Act or regulations that may be violated if the application for payment is approved; and
    - 3) A statement of specific reasons why the cited Sections of the Act or regulations may be violated if the application for payment is approved.

- e) An owner or operator may waive the right to a final decision within 120 days after the submittal of a complete application for payment by submitting written notice to the Agency prior to the applicable deadline. Any waiver shall be for a minimum of 30 days.
- f) The Agency shall mail notices of final action on applications for payment by registered or certified mail, post marked with a date stamp and with return receipt requested. Final action shall be deemed to have taken place on the post marked date that such notice is mailed. The Agency shall mail notices of final action on applications for payment, and direct the Comptroller to mail payments to the owner or operator, at the address designated for receipt of payment in the application for payment or on a change of address form, provided by the Agency, submitted subsequent to submittal of the application for payment.
- h) Any action by the Agency to deny payment for an application for payment or portion thereof or to require modification shall be subject to appeal to the Board within 35 days after the Agency's final action in the manner provided for the review of permit decisions in Section 40 of the Act.

**Section 734.615 Authorization for Payment; Priority List**

- a) Within 60 days after notification to an owner or operator that the application for payment or a portion thereof has been approved by the Agency or by operation of law, the Agency shall forward to the Office of the State Comptroller in accordance with subsection (d) or (e) of this Section a voucher in the amount approved. If the owner or operator has filed an appeal with the Board of the Agency's final decision on an application for payment, the Agency shall have 60 days after the final resolution of the appeal to forward to the Office of the State Comptroller a voucher in the amount ordered as a result of the appeal. Notwithstanding the time limits imposed by this Section, the Agency shall not forward vouchers to the Office of the State Comptroller until sufficient funds are available to issue payment.
- b) The following rules shall apply regarding deductibles:
  - 1) Any deductible, as determined by the OSFM or the Agency, shall be subtracted from any amount approved for payment by the Agency or by operation of law, or ordered by the Board or courts;
  - 2) Only one deductible shall apply per occurrence;
  - 3) If multiple incident numbers are issued for a single site in the same calendar year, only one deductible shall apply for those incidents, even if the incidents relate to more than one occurrence; and

- 4) Where more than one deductible determination is made, the higher deductible shall apply.
- c) The Agency shall instruct the Office of the State Comptroller to issue payment to the owner or operator at the address designated in accordance with Sections 734.605(b)(8) or (c) of this Part. In no case shall the Agency authorize the Office of the State Comptroller to issue payment to an agent, designee, or entity that has conducted corrective action activities for the owner or operator.
- d) For owners or operators who have deferred site classification or corrective action in accordance with Section 734.450 of this Part, payment shall be authorized from funds encumbered pursuant to Section 734.450(a)(6) of this Part upon approval of the application for payment by the Agency or by operation of law.
- e) For owners or operators not electing to defer site investigation or corrective action in accordance with Section 734.450 of this Part, the Agency shall form a priority list for payment for the issuance of vouchers pursuant to subsection (a) of this Section.
  - 1) All such applications for payment shall be assigned a date that is the date upon which the complete application for partial or final payment was received by the Agency. This date shall determine the owner's or operator's priority for payment in accordance with subsection (e)(2) of this Section, with the earliest dates receiving the highest priority.
  - 2) Once payment is approved by the Agency or by operation of law or ordered by the Board or courts, the application for payment shall be assigned priority in accordance with subsection (e)(1) of this Section. The assigned date shall be the only factor determining the priority for payment for those applications approved for payment.

**Section 734.620      Limitations on Total Payments**

- a) Limitations per occurrence:
  - 1) *The Agency shall not approve any payment from the Fund to pay an owner or operator for costs of corrective action incurred by such owner or operator in an amount in excess of \$1,500,000 per occurrence [415 ILCS 5/57.8(g)(1)]; and*

2) *The Agency shall not approve any payment from the Fund to pay an owner or operator for costs of indemnification of such owner or operator in an amount in excess of \$1,500,000 per occurrence [415 ILCS 5/57.8(g)(2)].*

b) Aggregate limitations:

1) *Notwithstanding any other provision of this Part, the Agency shall not approve payment to an owner or operator from the Fund for costs of corrective action or indemnification incurred during a calendar year in excess of the following amounts based on the number of petroleum underground storage tanks owned or operated by such owner or operator in Illinois:*

A) For calendar years prior to 2002:

Amount	Number of Tanks
\$1,000,000	fewer than 101
\$2,000,000	101 or more

B) For calendar years 2002 and later:

Amount	Number of Tanks
\$2,000,000	fewer than 101
\$3,000,000	101 or more

[415 ILCS 5/57.8(d)].

2) *Costs incurred in excess of the aggregate amounts set forth in subsection (b)(1) of this Section shall not be eligible for payment in subsequent years [415 ILCS 5/57.8(d)(1)].*

c) *For purposes of subsection (b) of this Section, requests submitted by any of the agencies, departments, boards, committees or commissions of the State of Illinois shall be acted upon as claims from a single owner or operator [415 ILCS 5/57.8(d)(2)].*

d) *For purposes of subsection (b) of this Section, owner or operator includes;*

1) *any subsidiary, parent, or joint stock company of the owner or operator; and*

- 2) *any company owned by any parent, subsidiary, or joint stock company of the owner or operator [415 ILCS 5/57.8(d)(3)].*

**Section 734.625 Eligible Corrective Action Costs**

- a) Types of costs that may be eligible for payment from the Fund include those for corrective action activities and for materials or services provided or performed in conjunction with corrective action activities. Such activities and services may include, but are not limited to, reasonable costs for:
  - 1) Early action activities conducted pursuant to Subpart B of this Part;
  - 2) Engineer or geologist oversight services;
  - 3) Remedial investigation and design;
  - 4) Laboratory services necessary to determine site investigation and whether the established remediation objectives have been met;
  - 5) The installation and operation of groundwater investigation and groundwater monitoring wells;
  - 6) The removal, treatment, transportation, and disposal of soil contaminated by petroleum at levels in excess of the established remediation objectives;
  - 7) The removal, treatment, transportation, and disposal of water contaminated by petroleum at levels in excess of the established remediation objectives;
  - 8) The placement of clean backfill to grade to replace excavated soil contaminated by petroleum at levels in excess of the established remediation objectives;
  - 9) Groundwater corrective action systems;
  - 10) Alternative technology, including but not limited to feasibility studies approved by the Agency;
  - 11) Recovery of free product exceeding one-eighth of an inch in depth, or present as a sheen on groundwater in the tank removal excavation or on surface water;

- 12) The removal and disposal of any UST if a release of petroleum from the UST was identified and IEMA was notified prior to its removal, with the exception of any UST deemed ineligible by the OSFM;
- 13) Costs incurred as a result of a release of petroleum because of vandalism, theft, or fraudulent activity by a party other than an owner or operator or agent of an owner or operator;
- 14) Engineer or geologist costs associated with seeking payment from the Fund including but not limited to completion of an application for partial or final payment;
- 15) Costs associated with obtaining an Eligibility and Deductibility Determination from the OSFM or the Agency;
- 16) Costs for destruction and replacement of concrete, asphalt, or paving to the extent necessary to conduct corrective action if the concrete, paving, or asphalt was installed prior to the initiation of corrective action activities, the destruction and replacement has been certified as necessary to the performance of corrective action by a Licensed Professional Engineer, and the destruction and replacement and its costs are approved by the Agency in writing prior to the destruction and replacement. All such costs shall be submitted in a single application for payment and shall not be submitted prior to the Agency's issuance of a No Further Remediation Letter pursuant to Subpart G of this Part. Costs associated with the replacement of concrete, asphalt, or paving shall not be paid in excess of the cost to install, to the same area and depth, the same material as was destroyed;
- 17) The destruction or dismantling and reassembly of above grade structures in response to a release of petroleum if such activity has been certified as necessary to the performance of corrective action by a Licensed Professional Engineer and such activity and its costs are approved by the Agency in writing prior to the destruction or dismantling and re-assembly. Such costs shall not be paid in excess of a total of \$10,000 per site. For purposes of this subsection (a)(17), destruction, dismantling, or reassembly of above grade structures does not include costs associated with replacement of pumps, pump islands, buildings, wiring, lighting, bumpers, posts, or canopies;
- 18) Preparation of reports submitted pursuant to Section 734.210(h)(3) of this Part, free product removal plans and associated budgets, free product removal reports, site investigation plans and



associated budgets, site investigation completion reports, corrective action plans and associated budgets, and corrective action completion reports;

- 19) Costs associated with the removal or abandonment of a potable water supply well, and replacement of the well or connection to a public water supply, whichever is less, if a Licensed Professional Engineer or Licensed Professional Geologist certifies that such activity is necessary to the performance of corrective action and that the property served by the well cannot receive an adequate supply of potable water from an existing source other than the removed or abandoned well, and the Agency approves such activity in writing. If the well being removed or abandoned is a public water supply well, the Licensed Professional Engineer or Licensed Professional Geologist is required to certify only that the removal or abandonment of the well is necessary to the performance of corrective action; and
  - 20) Costs associated with the repair or replacement of potable water supply lines damaged to the point of requiring repair or replacement as a direct result of the release, if such activity is certified by a Licensed Professional Engineer or Licensed Professional Geologist as necessary for the protection of the potable water supply and approved by the Agency in writing.
- b) An owner or operator may submit a budget or application for partial or final payment that includes an itemized accounting of costs associated with activities, materials, or services not identified in subsection (a) of this Section if the owner or operator submits detailed information demonstrating that the activities, materials, or services not identified in subsection (a) of this Section are essential to the completion of the minimum corrective action requirements of the Act and this Part.

### **Section 734.630 Ineligible Corrective Action Costs**

Costs ineligible for payment from the Fund include but are not limited to:

- a) Costs for the removal, treatment, transportation, and disposal of more than four feet of fill material from the outside dimensions of the UST, as set forth in Section 734.Appendix C of this Part, during early action activities conducted pursuant to Section 734.210(f) of this Part, and costs for the replacement of contaminated fill materials with clean fill materials in excess of the amounts set forth in Section 734.Appendix C of this Part during early action activities conducted pursuant to Section 734.210(f) of this Part;

- b) Costs or losses resulting from business interruption;
- c) Costs incurred as a result of vandalism, theft, or fraudulent activity by the owner or operator or agent of an owner or operator, including the creation of spills, leaks, or releases;
- d) Costs associated with the replacement of above grade structures such as pumps, pump islands, buildings, wiring, lighting, bumpers, posts, or canopies, including but not limited to those structures destroyed or damaged during corrective action activities;
- e) *Costs of corrective action incurred by an owner or operator prior to July 28, 1989 [415 ILCS 5/57.8(j)];*
- f) Costs associated with the procurement of a generator identification number;
- g) Legal fees or costs, including but not limited to legal fees or costs for seeking payment under this Part unless the owner or operator prevails before the Board and the Board authorizes payment of such costs;
- h) Purchase costs of non-expendable materials, supplies, equipment, or tools, except that a reasonable rate may be charged for the usage of such materials, supplies, equipment, or tools;
- i) Costs associated with activities that violate any provision of the Act or Board, OSFM, or Agency regulations;
- j) Costs associated with investigative action, preventive action, corrective action, or enforcement action taken by the State of Illinois if the owner or operator failed, without sufficient cause, to respond to a release or substantial threat of a release upon, or in accordance with, a notice issued by the Agency pursuant to Section 734.125 of this Part and Section 57.12 of the Act;
- k) Costs for removal, disposal, or abandonment of UST if the tank was removed or abandoned, or permitted for removal or abandonment, by the OSFM before the owner or operator provided notice to IEMA of a release of petroleum;
- l) Costs associated with the installation of new USTs, the repair of existing USTs, and removal and disposal of USTs determined to be ineligible by the OSFM;
- m) Costs exceeding those contained in a budget or amended budget approved by the Agency;

- n) Costs of corrective action incurred before providing notification of the release of petroleum to IEMA in accordance with Section 734.210 of this Part;
- o) Costs for corrective action activities and associated materials or services exceeding the minimum requirements necessary to comply with the Act;
- p) Costs associated with improperly installed sampling or monitoring wells;
- q) Costs associated with improperly collected, transported, or analyzed laboratory samples;
- r) Costs associated with the analysis of laboratory samples not approved by the Agency;
- s) Costs for any corrective activities, services, or materials unless accompanied by a letter from OSFM or the Agency confirming eligibility and deductibility in accordance with Section 57.9 of the Act;
- t) Interest or finance costs charged as direct costs;
- u) Insurance costs charged as direct costs;
- v) Indirect corrective action costs for personnel, materials, service, or equipment charged as direct costs;
- w) Costs associated with the compaction and density testing of backfill material;
- x) Costs associated with sites that have not reported a release to IEMA or are not required to report a release to IEMA;
- y) Costs related to activities, materials, or services not necessary to stop, minimize, eliminate, or clean up a release of petroleum or its effects in accordance with the minimum requirements of the Act and regulations;
- z) Costs of alternative technology that exceed the costs of conventional technology;
- aa) Costs for activities and related services or materials that are unnecessary, inconsistent with generally accepted engineering practices or principles of professional geology, or unreasonable costs for justifiable activities, materials, or services;
- bb) Costs requested that are based on mathematical errors;

- cc) Costs that lack supporting documentation;
- dd) Costs proposed as part of a budget that are unreasonable;
- ee) Costs incurred during early action that are unreasonable;
- ff) Costs incurred on or after the date the owner or operator enters the Site Remediation Program under Title XVII and 35 Ill. Adm. Code 740 to address the UST release;
- gg) Costs incurred after receipt of a No Further Remediation Letter for the occurrence for which the No Further Remediation Letter was received, except costs incurred for MTBE remediation pursuant to Section 734.405(i)(2) of this Part, monitoring well abandonment costs, county recorder or registrar of titles fees for recording the No Further Remediation Letter, and costs associated with seeking payment from the Fund;
- hh) Handling charges for subcontractor costs that have been billed directly to the owner or operator;
- ii) Handling charges for subcontractor costs when the contractor has not submitted proof of payment of the subcontractor costs;
- jj) Costs associated with standby and demurrage;
- kk) Costs associated with a corrective action plan incurred after the Agency notifies the owner or operator, pursuant to Section 734.355(b) of this Part, that a revised corrective action plan is required, provided, however, that costs associated with any subsequently approved corrective action plan will be eligible for payment if they meet the requirements of this Part;
- ll) Costs incurred prior to the effective date of an owner's or operator's election to proceed in accordance with this Part, unless such costs were incurred for activities approved as corrective action under this Part;
- mm) Costs associated with the preparation of free product removal reports not submitted in accordance with the schedule established in Section 734.215(a)(5) of this Part;
- nn) Costs submitted more than one year after the date the Agency issues a No Further Remediation Letter pursuant to Subpart G of this Part;

- oo) Handling charges for subcontractor costs where any person with a direct or indirect financial interest in the contractor has a direct or indirect financial interest in the subcontractor;
- pp) Costs for the destruction and replacement of concrete, asphalt, or paving, except as otherwise provided in Section 734.625(a)(16) of this Part;
- qq) Costs incurred as a result of the destruction of, or damage to, any equipment, fixtures, structures, utilities, or other items during corrective action activities, except as otherwise provided in Sections 734.625(a)(16) or (17) of this Part;
- rr) Costs associated with oversight by an owner or operator;
- ss) Handling charges charged by persons other than the owner's or operator's primary contractor;
- tt) Costs associated with the installation of concrete, asphalt, or paving as an engineered barrier to the extent they exceed the cost of installing an engineered barrier constructed of asphalt four inches in depth. This subsection does not apply if the concrete, asphalt, or paving being used as an engineered barrier was replaced pursuant to Section 734.625(a)(16) of this Part;
- uu) The treatment or disposal of soil that does not exceed the applicable remediation objectives for the release, unless approved by the Agency in writing prior to the treatment or disposal;
- vv) Costs associated with the removal or abandonment of a potable water supply well, or the replacement of such a well or connection to a public water supply, except as otherwise provided in Section 734.625(a)(19) of this Part;
- ww) Costs associated with the repair or replacement of potable water supply lines, except as otherwise provided in Section 734.625(a)(20) of this Part;
- xx) Costs associated with the replacement of underground structures or utilities, including but not limited to septic tanks, utility vaults, sewer lines, electrical lines, telephone lines, cable lines, or water supply lines, except as otherwise provided in Sections 734.625(a)(19) or (20) of this Part;
- yy) Costs associated with sample collection, transportation, or analysis required as a result of improperly collected, transported, or analyzed laboratory samples;

- zz) For sites electing under Section 734.105 of this Part to proceed in accordance with this Part, costs incurred pursuant to Section 734.210 of this Part;
- aaa) Costs an owner or operator is required to pay to a governmental entity or other person in order to conduct corrective action, including but not limited to permit fees, institutional control fees, and property access fees; and
- bbb) Costs associated with the maintenance, repair, or replacement of leased or subcontracted equipment.
- ccc) Costs that exceed the maximum payment amounts set forth in Subpart H of this Part.

**Section 734.635 Payment for Handling Charges**

Handling charges are eligible for payment only if they are equal to or less than the amount determined by the following table:

Subcontract or Field Purchase Cost:	Eligible Handling Charges as a Percentage of Cost:
\$0 - \$5,000.....	12%
\$5,001 - \$15,000.....	\$600 + 10% of amt. over \$5,000
\$15,001 - \$50,000.....	\$1,600 + 8% of amt. over \$15,000
\$50,001 - \$100,000.....	\$4,400 + 5% of amt. over \$50,000
\$100,001 - \$1,000,000.....	\$6,900 + 2% of amt. over \$100,000

**Section 734.640 Apportionment of Costs**

- a) The Agency may apportion payment of costs if:
  - 1) *The owner or operator was deemed eligible to access the Fund for payment of corrective action costs for some, but not all, of the underground storage tanks at the site; and*
  - 2) *The owner or operator failed to justify all costs attributable to each underground storage tank at the site. (Derived from Section 57.8(m) of the Act)*
- b) At the time of payment, the Agency will determine, based on volume or number of tanks, which method of apportionment will be most favorable to the owner or operator. Apportionment will be assessed at the time of payment and the Agency will notify the owner or operator of such determination in writing.

**Section 734.645 Subrogation of Rights**

*Payment of any amount from the fund for corrective action or indemnification shall be subject to the State acquiring by subrogation the rights of any owner, operator, or other person to recover the costs of corrective action or indemnification for which the fund has compensated such owner, operator, or person from the person responsible or liable for the release [415 ILCS 5/57.8(h)].*

**Section 734.650 Indemnification**

- a) An owner or operator seeking indemnification from the Fund for payment of costs incurred as a result of a release of petroleum from an underground storage tank shall submit to the Agency a request for payment on forms prescribed and provided by the Agency and, if specified by the Agency by written notice, in an electronic format.
  - 1) A complete application for payment shall contain the following:
    - A) A certified statement by the owner or operator of the amount sought for payment;
    - B) Proof of the legally enforceable judgment, final order, or determination against the owner or operator, or the legally enforceable settlement entered into by the owner or operator, for which indemnification is sought. The proof shall include, but not be limited to, the following:
      - i) A copy of the judgment certified by the court clerk as a true and correct copy, a copy of the final order or determination certified by the issuing agency of State government or subdivision thereof as a true and correct copy, or a copy of the settlement certified by the owner or operator as a true and correct copy; and
      - ii) Documentation demonstrating that the judgment, final order, determination, or settlement arises out of bodily injury or property damage suffered as a result of a release of petroleum from the UST for which the release was reported, and that the UST is owned or operated by the owner or operator;
    - C) A copy of the OSFM or Agency eligibility and deductibility determination;

- D) Proof that approval of the indemnification requested will not exceed the limitations set forth in the Act and Section 734.620 of this Part;
  - E) A federal taxpayer identification number and legal status disclosure certification;
  - F) A private insurance coverage form; and
  - G) Designation of the address to which payment and notice of final action on the request for indemnification are to be sent to the owner or operator.
- 2) The owner's or operator's address designated on the application for payment may be changed only by subsequent notification to the Agency, on a form provided by the Agency, of a change of address.
  - 3) Applications for payment shall be mailed or delivered to the address designated by the Agency. The Agency's record of the date of receipt shall be deemed conclusive unless a contrary date is proven by a dated, signed receipt from certified or registered mail.
- b) The Agency shall review applications for payment in accordance with this Subpart F. In addition, the Agency shall review each application for payment to determine the following:
- 1) Whether the application contains all of the information and supporting documentation required by subsection (a) of this Section;
  - 2) Whether there is sufficient documentation of a legally enforceable judgment entered against the owner or operator in a court of law, final order or determination made against the owner or operator by an agency of State government or any subdivision thereof, or settlement entered into by the owner or operator;
  - 3) Whether there is sufficient documentation that the judgment, final order, determination, or settlement arises out of bodily injury or property damage suffered as a result of a release of petroleum from an underground storage tank owned or operated by the owner or operator; and
  - 4) Whether the amounts sought for indemnification are eligible for payment.



- c) If the application for payment of the costs of indemnification is deemed complete and otherwise satisfies all applicable requirements of this Subpart F, the Agency shall forward the request for indemnification to the Office of the Attorney General for review and approval in accordance with Section 57.8(c) of the Act. The owner or operator's request for indemnification shall not be placed on the priority list for payment until the Agency has received the written approval of the Attorney General. The approved application for payment shall then enter the priority list established at Section 734.615(e)(1) of this Part based on the date the complete application was received by the Agency in accordance with Section 57.8(c) of the Act.
  
- d) Costs ineligible for indemnification from the Fund include, but are not limited to:
  - 1) Amounts an owner or operator is not legally obligated to pay pursuant to a judgment entered against the owner or operator in court of law, a final order or determination made against the owner or operator by an agency of State government or any subdivision thereof, or any settlement entered into by the owner or operator;
  - 2) Amounts of a judgment, final order, determination, or settlement that do not arise out of bodily injury or property damage suffered as a result of a release of petroleum from an underground storage tank owned or operated by the owner or operator;
  - 3) Amounts incurred prior to July 28, 1989;
  - 4) Amounts incurred prior to notification of the release of petroleum to IEMA in accordance with Section 734.210 of this Part;
  - 5) Amounts arising out of bodily injury or property damage suffered as a result of a release of petroleum from an underground storage tank for which the owner or operator is not eligible to access the Fund;
  - 6) Legal fees or costs, including but not limited to legal fees or costs for seeking payment under this Part unless the owner or operator prevails before the Board and the Board authorizes payment of such costs;
  - 7) Amounts associated with activities that violate any provision of the Act or Board, OSFM, or Agency regulations;
  - 8) Amounts associated with investigative action, preventive action, corrective action, or enforcement action taken by the State of

Illinois if the owner or operator failed, without sufficient cause, to respond to a release or substantial threat of a release upon, or in accordance with, a notice issued by the Agency pursuant to Section 734.125 of this Part and Section 57.12 of the Act;

- 9) Amounts associated with a release that has not been reported to IEMA or is not required to be reported to IEMA;
- 10) Amounts incurred on or after the date the owner or operator enters the Site Remediation Program under Title XVII and 35 Ill. Adm. Code 740 to address the UST release; and
- 11) Amounts incurred prior to the effective date of the owner's or operator's election to proceed in accordance with this Part.

**Section 734.655      Costs Covered by Insurance, Agreement, or Court Order**

*Costs of corrective action or indemnification incurred by an owner or operator which have been paid to an owner or operator under a policy of insurance, another written agreement, or a court order are not eligible for payment from the Fund. An owner or operator who receives payment under a policy of insurance, another written agreement, or a court order shall reimburse the State to the extent such payment covers costs for which payment was received from the Fund [415 ILCS 5/57.8(e)].*

**Section 734.660      Determination and Collection of Excess Payments**

- a) If, for any reason, the Agency determines that an excess payment has been paid from the Fund, the Agency may take steps to collect the excess amount pursuant to subsection (c) of this Section.
  - 1) Upon identifying an excess payment, the Agency shall notify the owner or operator receiving the excess payment by certified or registered mail, return receipt requested.
  - 2) The notification letter shall state the amount of the excess payment and the basis for the Agency's determination that the payment is in error.
  - 3) The Agency's determination of an excess payment shall be subject to appeal to the Board in the manner provided for the review of permit decisions in Section 40 of the Act.
- b) An excess payment from the Fund includes, but is not limited to:
  - 1) Payment for a non-corrective action cost;

- 2) Payment in excess of the limitations on payments set forth in Sections 734.620 and 734.635 and Subpart H of this Part;
  - 3) Payment received through fraudulent means;
  - 4) Payment calculated on the basis of an arithmetic error;
  - 5) Payment calculated by the Agency in reliance on incorrect information; or
  - 6) Payment of costs that are not eligible for payment.
- c) Excess payments may be collected using any of the following procedures:
- 1) Upon notification of the determination of an excess payment in accordance with subsection (a) of this Section or pursuant to a Board order affirming such determination upon appeal, the Agency may attempt to negotiate a payment schedule with the owner or operator. Nothing in this subsection (c)(1) of this Section shall prohibit the Agency from exercising at any time its options at subsection (c)(2) or (c)(3) of this Section or any other collection methods available to the Agency by law.
  - 2) If an owner or operator submits a subsequent claim for payment after previously receiving an excess payment from the Fund, the Agency may deduct the excess payment amount from any subsequently approved payment amount. If the amount subsequently approved is insufficient to recover the entire amount of the excess payment, the Agency may use the procedures in this Section or any other collection methods available to the Agency by law to collect the remainder.
  - 3) The Agency may deem an excess payment amount to be a claim or debt owed the Agency, and the Agency may use the Comptroller's Setoff System for collection of the claim or debt in accordance with Section 10.5 of the "State Comptroller Act." 15 ILCS 405/10.05 (1993).

**Section 734.665      Audits and Access to Records; Records Retention**

*The Agency has the authority to audit all data, reports, plans, documents and budgets submitted pursuant to Title XVI of the Act and this Part. If the data, report, plan, document or budget audited by the Agency pursuant to this Section fails to conform to all applicable requirements of Title XVI of the Act and this Part, the Agency may take appropriate actions. [415 ILCS 5/57.15]*

- a) Owners or operators that submit data, reports, plans, documents, or budgets under this Part, and Licensed Professional Engineers and Licensed Professional Geologists that certify such data, reports, plans, documents, or budgets, shall maintain all books, records, documents, and other evidence directly pertinent to the data, reports, plans, documents, or budgets, including but not limited to all financial information and data used in the preparation or support of applications for payment. All books, records, documents, and other evidence shall be maintained in accordance with accepted business practices and appropriate accounting procedures and practices.
- b) The Agency or any of its duly authorized representatives shall have access to the books, records, documents, and other evidence set forth in subsection (a) of this Section during normal business hours for the purpose of inspection, audit, and copying. Owners, operators, Licensed Professional Engineers, and Licensed Professional Geologists shall provide proper facilities for such access and inspection.
- c) Owners, operators, Licensed Professional Engineers, and Licensed Professional Geologists shall maintain the books, records, documents, and other evidence set forth in subsection (a) of this Section and make them available to the Agency or its authorized representative until the latest of the following:
  - 1) The expiration of 4 years after the date the Agency issues a No Further Remediation Letter issued pursuant to Subpart G of this Part;
  - 2) For books, records, documents, or other evidence relating to an appeal, litigation, or other dispute or claim, the expiration of 3 years after the date of the final disposition of the appeal, litigation, or other dispute or claim; or
  - 3) The expiration of any other applicable record retention period.

**SUBPART G: NO FURTHER REMEDIATION LETTERS  
AND RECORDING REQUIREMENTS**

**Section 734.700      General**

Subpart G provides the procedures for the issuance of No Further Remediation Letters under Title XVI and this Part. Subpart G also sets forth the recording requirements and the circumstances under which the letter may be voidable.

**Section 734.705      Issuance of a No Further Remediation Letter**

- a) Upon approval by the Agency of a report submitted pursuant to Section 734.210(h)(3) of this Part or a corrective action completion report, the Agency shall issue to the owner or operator a No Further Remediation Letter. The No Further Remediation Letter shall have the legal effect prescribed in Section 57.10 of the Act. The No Further Remediation Letter shall be denied if the Agency rejects or requires modification of the applicable report.
- b) The Agency shall have 120 days after the date of receipt of the applicable report to issue a No Further Remediation Letter and may include the No Further Remediation Letter as part of the notification of approval of the report in accordance with Subpart E of this Part. If the Agency fails to send the No Further Remediation Letter within 120 days, it shall be deemed denied by operation of law.
- c) The notice of denial of a No Further Remediation Letter by the Agency may be included with the notification of rejection or modification of the applicable report. The reasons for the denial of the letter shall be stated in the notification. The denial shall be considered a final determination appealable to the Board within 35 days after the Agency's final action in the manner provided for the review of permit decisions in Section 40 of the Act. If any request for a No Further Remediation Letter is denied by operation of law, in lieu of an immediate appeal to the Board the owner or operator may either resubmit the request and applicable report to the Agency or file a joint request for a 90 day extension in the manner provided for extensions of permit decision in Section 40 of the Act.
- d) The Agency shall mail the No Further Remediation Letter by registered or certified mail, post marked with a date stamp and with return receipt requested. Final action shall be deemed to have taken place on the post marked date that the letter is mailed.
- e) The Agency at any time may correct errors in No Further Remediation Letters that arise from oversight, omission, or clerical mistake. Upon correction of the No Further Remediation Letter, the Agency shall mail the corrected letter to the owner or operator as set forth in subsection (d) of this Section. The corrected letter shall be perfected by recording in accordance with the requirements of Section 734.715 of this Part.

**Section 734.710      Contents of a No Further Remediation Letter**

A No Further Remediation Letter issued pursuant to this Part shall include all of the following:

- a) An acknowledgment that the requirements of the applicable report were satisfied;

- b) A description of the location of the affected property by adequate legal description or by reference to a plat showing its boundaries, or, for the purposes of Section 734.715(d) of this Part, other means sufficient to identify the site location with particularity;
- c) A statement that the remediation objectives were determined in accordance with 35 Ill. Adm. Code 742, and the identification of any land use limitation, as applicable, required by 35 Ill. Adm. Code 742 as a condition of the remediation objectives;
- d) A statement that the Agency's issuance of the No Further Remediation Letter signifies that:
  - 1) *All statutory and regulatory corrective action requirements applicable to the occurrence have been complied with;*
  - 2) *All corrective action concerning the remediation of the occurrence has been completed; and*
  - 3) *No further corrective action concerning the occurrence is necessary for the protection of human health, safety and the environment, or, if the No Further Remediation Letter is issued pursuant to Section 734.350(e) of this Part, that the owner or operator has demonstrated to the Agency's satisfaction an inability to obtain access to an off-site property despite best efforts and therefore is not required to perform corrective action on the off-site property in order to satisfy the corrective action requirements of this Part, but is not relieved of responsibility to clean up portions of the release that have migrated off-site. [415 ILCS 5/57.10(c)(1)-(3)]*
- e) The prohibition under Section 734.715(e) of this Part against the use of any site in a manner inconsistent with any applicable land use limitation, without additional appropriate remedial activities;
- f) A description of any approved preventive, engineering, and institutional controls identified in the plan or report and notification that failure to manage the controls in full compliance with the terms of the plan or report may result in avoidance of the No Further Remediation Letter;
- g) The recording obligations pursuant to Section 734.715 of this Part;
- h) The opportunity to request a change in the recorded land use pursuant to Section 734.715(e) of this Part;

- i) Notification that further information regarding the site can be obtained from the Agency through a request under the Freedom of Information Act [5 ILCS 140]; and
- j) Any other provisions agreed to by the Agency and the owner or operator.

**Section 734.715      Duty to Record a No Further Remediation Letter**

- a) Except as provided in subsections (c) and (d) of this Section, an owner or operator receiving a No Further Remediation Letter from the Agency pursuant to this Subpart G shall submit the letter, with a copy of any applicable institutional controls (as set forth in 35 Ill. Adm. Code 742, Subpart J) proposed as part of a corrective action completion report, to the Office of the Recorder or the Registrar of Titles of the county in which the site is located within 45 days after receipt of the letter. The letter and any attachments shall be filed in accordance with Illinois law so that they form a permanent part of the chain of title for the site. Upon the lapse of the 45 day period for recording, pursuant to Section 734.720(a)(5) of this Part the Agency may void an unrecorded No Further Remediation Letter for failure to record it in a timely manner.
- b) Except as provided in subsections (c) and (d) of this Section, a No Further Remediation Letter shall be perfected upon the date of the official recording of such letter. The owner or operator shall obtain and submit to the Agency, within 30 days after the official recording date, a certified or otherwise accurate and official copy of the letter and any attachments as recorded. An unperfected No Further Remediation Letter is effective only as between the Agency and the owner or operator.
- c) For sites located in a highway authority right-of-way, the following requirements shall apply:
  - 1) In order for the No Further Remediation Letter to be perfected, the highway authority with jurisdiction over the right-of-way must enter into a Memorandum of Agreement (MOA) with the Agency. The MOA must include, but is not limited to:
    - A) The name of the site, if any, and any highway authority or Agency identifiers (e.g., incident number, Illinois inventory identification number);
    - B) The address of the site (or other description sufficient to identify the location of the site with certainty);
    - C) A copy of the No Further Remediation Letter for each site subject to the MOA;

- D) Procedures for tracking sites subject to the MOA so that all highway authority offices and personnel whose responsibilities (e.g., land acquisition, maintenance, construction, utility permits) may affect land use limitations will have notice of any environmental concerns and land use limitations applicable to a site;
  - E) Provisions addressing future conveyances (including title or any lesser form of interest) or jurisdictional transfers of the site to any other agency, private person or entity and the steps that will be taken to ensure the long-term integrity of any land use limitations including, but not limited to, the following:
    - i) Upon creation of a deed, the recording of the No Further Remediation Letter and any other land use limitations requiring recording under 35 Ill. Adm. Code 742, with copies of the recorded instruments sent to the Agency within 30 days after recording;
    - ii) Any other arrangements necessary to ensure that property that is conveyed or transferred remains subject to any land use limitations approved and implemented as part of the corrective action plan and the No Further Remediation Letter; and
    - iii) Notice to the Agency at least 60 days prior to any such intended conveyance or transfer indicating the mechanism(s) to be used to ensure that any land use limitations will be operated or maintained as required in the corrective action plan and No Further Remediation Letter; and
  - F) Provisions for notifying the Agency if any actions taken by the highway authority or its permittees at the site result in the failure or inability to restore the site to meet the requirements of the corrective action plan and the No Further Remediation Letter.
- 2) Failure to comply with the requirements of this subsection (c) may result in voidance of the No Further Remediation Letter pursuant to Section 734.720 of this Part as well as any other penalties that may be available.
- d) For sites located on Federally Owned Property for which the Federal



Landholding Entity does not have the authority under federal law to record institutional controls on the chain of title, the following requirements shall apply:

- 1) To perfect a No Further Remediation Letter containing any restriction on future land use(s), the Federal Landholding Entity or Entities responsible for the site must enter into a Land Use Control Memorandum of Agreement (LUC MOA) with the Agency that requires the Federal Landholding Entity to do, at a minimum, the following:
  - A) Identify the location on the Federally Owned Property of the site subject to the No Further Remediation Letter. Such identification shall be by means of common address, notations in any available facility master land use plan, site specific GIS or GPS coordinates, plat maps, or any other means that identify the site in question with particularity;
  - B) Implement periodic site inspection procedures that ensure oversight by the Federal Landholding Entities of any land use limitations or restrictions imposed pursuant to the No Further Remediation Letter;
  - C) Implement procedures for the Federal Landholding Entities to periodically advise the Agency of continued compliance with all maintenance and inspection requirements set forth in the LUC MOA;
  - D) Implement procedures for the Federal Landholding Entities to notify the Agency of any planned or emergency changes in land use that may adversely impact land use limitations or restrictions imposed pursuant to the No Further Remediation Letter;
  - E) Notify the Agency at least 60 days in advance of a conveyance by deed or fee simple title, by the Federal Landholding Entities, of the site or sites subject to the No Further Remediation Letter, to any entity that will not remain or become a Federal Landholding Entity, and provide the Agency with information about how the Federal Landholding Entities will ensure the No Further Remediation Letter is recorded on the chain of title upon transfer of the property; and
  - F) Attach to the LUC MOA a copy of the No Further Remediation Letter for each site subject to the LUC MOA.

- 2) To perfect a No Further Remediation letter containing no restriction(s) on future land use, the Federal Landholding Entity shall submit the letter to the Office of the Recorder or the Registrar of Titles of the county in which the site is located within 45 days after receipt of the letter. The letter shall be filed in accordance with Illinois law so it forms a permanent part of the chain of title. The Federal Landholding Entity shall obtain and submit to the Agency, within 30 days after recording, a copy of the letter demonstrating that the recording requirements have been satisfied.
  - 3) Failure to comply with the requirements of this subsection (d) and the LUC MOA may result in voidance of the No Further Remediation Letter as well as any other penalties that may be available.
- e) At no time shall any site for which a land use limitation has been imposed as a result of corrective action under this Part be used in a manner inconsistent with the land use limitation set forth in the No Further Remediation Letter. The land use limitation specified in the No Further Remediation Letter may be revised only by the perfecting of a subsequent No Further Remediation Letter, issued pursuant to Title XVII of the Act and regulations thereunder, following further investigation or remediation that demonstrates the attainment of objectives appropriate for the new land use.

**Section 734.720      Voidance of a No Further Remediation Letter**

- a) The No Further Remediation Letter shall be voidable if site activities are not carried out in full compliance with the provisions of this Part, and 35 Ill. Adm. Code 742 where applicable, or the remediation objectives upon which the issuance of the No Further Remediation Letter was based. Specific acts or omissions that may result in voidance of the No Further Remediation Letter include, but shall not be limited to:
  - 1) Any violations of institutional controls or land use restrictions, if applicable;
  - 2) The failure of the owner or operator or any subsequent transferee to operate and maintain preventive, engineering, and institutional controls;
  - 3) Obtaining the No Further Remediation Letter by fraud or misrepresentation;

- 4) Subsequent discovery of indicator contaminants related to the occurrence upon which the No Further Remediation Letter was based that:
    - A) were not identified as part of the investigative or remedial activities upon which the issuance of the No Further Remediation Letter was based;
    - B) results in the failure to meet the remediation objectives established for the site; and
    - C) pose a threat to human health or the environment;
  - 5) Upon the lapse of the 45 day period for recording the No Further Remediation Letter, the failure to record and thereby perfect the No Further Remediation Letter in a timely manner;
  - 6) The disturbance or removal of contamination left in place under an approved plan;
  - 7) The failure to comply with the requirements of Section 734.715(c) of this Part and the Memorandum of Agreement entered in accordance with Section 734.715(c) of this Part for a site that is located in a highway authority right-of-way;
  - 8) The failure to comply with the requirements of Section 734.715(d) of this Part and the LUC MOA entered in accordance with Section 734.715(d) of this Part for a site located on Federally Owned Property for which the Federal Landholding Entity does not have the authority under federal law to record institutional controls on the chain of title;
  - 9) The failure to comply with the requirements of Section 734.715(d) of this Part or the failure to record a No Further Remediation Letter perfected in accordance with Section 734.715(d) of this Part within 45 days following the transfer of the Federally Owned Property subject to the No Further Remediation Letter to any entity that will not remain or become a Federal Landholding Entity; or
  - 10) The failure to comply with the notice or confirmation requirements of 35 Ill. Adm. Code 742.1015(b)(5) and (c).
- b) If the Agency seeks to void a No Further Remediation Letter, it shall provide a Notice of Voidance to the current title holder of the site and the owner or operator at his or her last known address.

- 1) The Notice of Voidance shall specify the cause for the voidance and describe the facts in support of the cause.
  - 2) The Agency shall mail Notices of Voidance by registered or certified mail, date stamped with return receipt requested.
- c) Within 35 days after receipt of the Notice of Voidance, the current title holder and owner or operator of the site at the time the No Further Remediation Letter was issued may appeal the Agency's decision to the Board in the manner provided for the review of permit decisions in Section 40 of the Act.
- d) If the Board fails to take final action within 120 days, unless such time period is waived by the petitioner, the petition shall be deemed denied and the petitioner shall be entitled to an appellate court order pursuant to subsection (d) of Section 41 of the Act. The Agency shall have the burden of proof in such action.
- 1) If the Agency's action is appealed, the action shall not become effective until the appeal process has been exhausted and a final decision is reached by the Board or courts.
    - A) Upon receiving a notice of appeal, the Agency shall file a Notice of lis pendens with the Office of the Recorder or the Registrar of Titles for the county in which the site is located. The notice shall be filed in accordance with Illinois law so that it becomes a part of the chain of title for the site.
    - B) If the Agency's action is not upheld on appeal, the Notice of lis pendens shall be removed in accordance with Illinois law within 45 days after receipt of the final decision of the Board or the courts.
  - 2) If the Agency's action is not appealed or is upheld on appeal, the Agency shall submit the Notice of Voidance to the Office of the Recorder or the Registrar of Titles for the county in which the site is located. The Notice shall be filed in accordance with Illinois law so that it forms a permanent part of the chain of title for the site.

## **SUBPART H: MAXIMUM PAYMENT AMOUNTS**

### **Section 734.800      Applicability**

- a) This Subpart H divides all activities conducted pursuant to this Part into tasks and sets forth the maximum total amount an owner or operator can be paid from the Fund for all costs associated with each task. Payments to owners or operators shall not exceed the amounts set forth in this Subpart H.
- b) The costs listed under a particular task identify only some of the costs associated with the task; they are not intended as an exclusive list of all costs associated with the task for purposes of payment from the Fund.
- c) This Subpart H sets forth only the maximum amounts that may be paid from the Fund for eligible costs. Whether a particular cost is eligible for payment shall be determined under Subpart F of this Part.

**Section 734.810 UST Removal or Abandonment Costs**

Payment for costs associated with UST removal or abandonment of each UST shall not exceed the amounts set forth in this Section. Such costs shall include, but not be limited to, those associated with the excavation, removal, disposal, and abandonment of UST systems.

<u>UST Volume</u>	<u>Maximum Total Amount per UST</u>
110 – 999 gallons	\$2,100.00
1,000 – 14,999 gallons	\$3,150.00
15,000 or more gallons	\$4,100.00

**Section 734.815 Free Product or Groundwater Removal and Disposal**

Payment for costs associated with the removal and disposal of free product or groundwater shall not exceed the amounts set forth in this Section. Such costs shall include, but not be limited to, those associated with the removal, transportation, and disposal of free product or groundwater, and the design, construction, installation, operation, maintenance, and closure of free product or groundwater removal systems.

- a) Payment for costs associated with each round of free product or groundwater removal via hand bailing or a vacuum truck shall not exceed a total of \$0.68 per gallon or \$200.00, whichever is greater.
- b) Payment for costs associated with the removal of free product or groundwater via a method other than hand bailing or vacuum truck shall be determined on a time and materials basis and shall not exceed the amounts set forth in Section 734.850 of this Part. Such costs shall include, but not be limited to, those associated with the design, construction, installation, operation, maintenance, and closure of free product removal systems.

**Section 734.820      Drilling, Well Installation, and Well Abandonment**

Payment for costs associated with drilling, well installation, and well abandonment shall not exceed the amounts set forth in this Section, excluding drilling conducted as part of free product removal or an alternative technology. Payment for costs associated with drilling conducted as part of free product removal or an alternative technology shall be determined in accordance with Section 734.850 of this Part instead of this Section.

- a) Payment for costs associated with each round of drilling shall not exceed the following amounts. Such costs shall include, but not be limited to, those associated with mobilization, drilling labor, decontamination, and drilling for the purposes of soil sampling or well installation.

<u>Type of Drilling</u>	<u>Maximum Total Amount</u>
Hollow-stem auger	greater of \$23.00 per foot or \$1,500.00
Direct-push platform	greater of \$18.00 per foot or \$1,200.00

- b) Payment for costs associated with the installation of monitoring wells, excluding drilling, shall not exceed the following amounts. Such costs shall include, but not be limited to, those associated with well construction and development.

<u>Type of Borehole</u>	<u>Maximum Total Amount</u>
Hollow-stem auger	\$16.50/foot (well length)
Direct-push platform	\$12.50/foot (well length)

- c) Payment for costs associated with the abandonment of monitoring wells shall not exceed \$1.50 per foot of well length.

**Section 734.825      Soil Removal and Disposal**

Payment for costs associated with soil removal, transportation, and disposal shall not exceed the amounts set forth in this Section. Such costs shall include, but not be limited to, those associated with the removal, transportation, and disposal of contaminated soil exceeding the applicable remediation objectives or visibly contaminated fill removed pursuant to Section 734.210(f) of this Part, and the purchase, transportation, and placement of material used to backfill the resulting excavation.

- a) Payment for costs associated with the removal, transportation, and disposal of contaminated soil exceeding the applicable remediation objectives, visibly contaminated fill removed pursuant to Section 732.210(f) of this Part, and concrete, asphalt, or paving overlying such contaminated soil or fill shall not exceed a total of \$57.00 per cubic yard.
  - 1) Except as provided in subsection (a)(2) of this Section, the volume of soil removed and disposed shall be determined by the following

equation using the dimensions of the resulting excavation: (Excavation Length x Excavation Width x Excavation Depth) x 1.05. A conversion factor of 1.5 tons per cubic yard shall be used to convert tons to cubic yards.

- 2) The volume of soil removed from within four feet of the outside dimension of the UST and disposed of pursuant to Section 734.210(f) of this Part shall be determined in accordance with Section 734.Appendix C of this Part.
- b) Payment for costs associated with the purchase, transportation, and placement of material used to backfill the excavation resulting from the removal and disposal of soil shall not exceed a total of \$20.00 per cubic yard.
- 1) Except as provided in subsection (b)(2) of this Section, the volume of backfill material shall be determined by the following equation using the dimensions of the backfilled excavation: (Excavation Length x Excavation Width x Excavation Depth) x 1.05. A conversion factor of 1.5 tons per cubic yard shall be used to convert tons to cubic yards.
  - 2) The volume of backfill material used to replace soil removed from within four feet of the outside dimension of the UST and disposed of pursuant to Section 734.210(f) of this Part shall be determined in accordance with Section 734.Appendix C of this Part.
- c) Payment for costs associated with the removal and subsequent return of soil that does not exceed the applicable remediation objectives but whose removal is required in order to conduct corrective action shall not exceed a total of \$6.50 per cubic yard. The volume of soil removed and returned shall be determined by the following equation using the dimensions of the excavation resulting from the removal of the soil: (Excavation Length x Excavation Width x Excavation Depth). A conversion factor of 1.5 tons per cubic yard shall be used to convert tons to cubic yards.

**Section 734.830 Drum Disposal**

Payment for costs associated with the purchase, transportation, and disposal of 55-gallon drums containing waste generated as a result of corrective action (e.g., boring cuttings, water bailed for well development or sampling, hand-bailed free product) shall not exceed the following amounts or a total of \$500.00, whichever is greater.

<u>Drum Contents</u>	<u>Maximum Total Amount per Drum</u>
Solid waste	\$250.00
Liquid waste	\$150.00

**Section 734.835 Sample Handling and Analysis**

Payment for costs associated with sample handling and analysis shall not exceed the amounts set forth in Section 734. Appendix D of this Part. Such costs shall include, but not be limited to, those associated with the transportation, delivery, preparation, and analysis of samples, and the reporting of sample results. For laboratory analyses not included in this Section, the Agency may determine reasonable maximum payment amounts on a site-specific basis.

**Section 734.840 Replacement of Concrete, Asphalt, or Paving; Destruction or Dismantling and Reassembly of Above Grade Structures**

- a) Payment for costs associated with the replacement of concrete, asphalt, or paving shall not exceed the following amounts:

<u>Depth of Replacement Material</u>	<u>Maximum Total Amount per Square Foot</u>
Two inches of asphalt or paving	\$1.51
Three inches of asphalt or paving	\$1.70
Four inches of concrete, asphalt, or paving	\$2.18

For depths other than those listed above, the Agency shall determine reasonable maximum payment amounts on a site-specific basis.

- b) Payment for costs associated with the destruction or the dismantling and reassembly of above grade structures shall not exceed the time and material amounts set forth in Section 734.850 of this Part. The total cost for the destruction or the dismantling and reassembly of above grade structures shall not exceed \$10,000.00 per site.

**Section 734.845 Professional Consulting Services**

Payment for costs associated with professional consulting services shall not exceed the amounts set forth in this Section. Such costs shall include, but not be limited to, those associated with project planning and oversight; field work, field oversight; travel; per diem; mileage; transportation; and the preparation, review, certification, and submission of all plans, budgets, reports, applications for payment, and other documentation.

- a) Early Action and Free Product Removal. Payment of costs for professional consulting services associated with early action and free product removal activities conducted pursuant to Subpart B of this Part shall not exceed the following amounts:
  - 1) Payment for costs associated with preparation for the abandonment or removal of USTs shall not exceed a total of \$960.00.



- 2) Payment for costs associated with early action field work and field oversight shall not exceed a total of \$500.00 per half-day. The number of half-days shall not exceed the following:
    - A) If one or more USTs are removed, one half-day plus up to one half-day for each 250 cubic yards, or fraction thereof, of visibly contaminated fill material removed and disposed of in accordance with 734.210(f);
    - B) If one or more USTs remain in place, one half-day for every four soil borings, or fraction thereof, drilled pursuant to Section 732.210(h)(2) of this Part; and
    - C) One half-day if a UST line release is repaired.
  - 3) Payment for costs associated with the preparation and submission of 20-day and 45-day reports, including, but not limited to, field work not covered by subsection (a)(2) of this Section, shall not exceed a total of \$4,800.00.
  - 4) Payment for costs associated with the preparation and submission of free product removal plans and the installation of free product removal systems shall be determined on a time and materials basis and shall not exceed the amounts set forth in Section 734.850 of this Part.
  - 5) Payment for costs associated with the field work and field oversight for free product removal shall not exceed a total of \$500.00 per half-day. The Agency shall determine the reasonable number of half-days on a site-specific basis.
  - 6) Payment for costs associated with the preparation and submission of free product removal reports shall not exceed a total of \$1,600.00 per report.
  - 7) Payment for costs associated with the preparation and submission of reports submitted pursuant to Section 734.210(h)(3) of this Part shall not exceed a total of \$500.00.
- b) Site Investigation. Payment of costs for professional consulting services associated with site investigation activities conducted pursuant to Subpart C of this Part shall not exceed the following amounts:

- 1) Payment for costs associated with Stage 1 site investigation preparation, field work, and field oversight shall not exceed a total of \$3,200.00.
- 2) Payment for costs associated with the preparation and submission of Stage 2 site investigation plans shall not exceed a total of \$3,200.00.
- 3) Payment for costs associated with Stage 2 field work and field oversight shall not exceed \$500.00 per half-day. The number of half-days shall not exceed the following:
  - A) One half-day for every four soil borings, or fraction thereof, drilled as part of the Stage 2 site investigation but not used for the installation of monitoring wells. Borings in which monitoring wells are installed shall be included in subsection (b)(3)(B) of this Section instead of this subsection (b)(3)(A); and
  - B) One half-day for each monitoring well installed as part of the Stage 2 site investigation.
- 4) Payment for costs associated with the preparation and submission of Stage 3 site investigation plans shall not exceed a total of \$3,200.00.
- 5) Payment for costs associated with Stage 3 field work and field oversight shall not exceed \$500.00 per half-day. The number of half-days shall not exceed the following:
  - A) One half-day for every four soil borings, or fraction thereof, drilled as part of the Stage 3 site investigation but not used for the installation of monitoring wells. Borings in which monitoring wells are installed shall be included in subsection (b)(5)(B) of this Section instead of this subsection (b)(5)(A); and
  - B) One half-day for each monitoring well installed as part of the Stage 3 site investigation.
- 6) Payment for costs associated with the preparation and submission of site investigation completion reports shall not exceed a total of \$1,600.00.

- c) Corrective Action. Payment of costs for professional consulting services associated with corrective action activities conducted pursuant to Subpart C of this Part shall not exceed the following amounts:
  - 1) For conventional technology, payment for costs associated with the preparation and submission of corrective action plans shall not exceed a total of \$5,120.00. For alternative technologies, payment for costs shall be determined on a time and materials basis and shall not exceed the amounts set forth in Section 734.850 of this Part.
  - 2) Payment for costs associated with corrective action field work and field oversight shall not exceed the following amounts:
    - A) For conventional technology, a total of \$500.00 per half-day, not to exceed one half-day for each 250 cubic yards, or fraction thereof, of soil removed and disposed.
    - B) For alternative technologies, payment for costs shall be determined on a time and materials basis and shall not exceed the amounts set forth in Section 734.850 of this Part.
  - 3) Payment for costs associated with the development of remediation objectives other than Tier 1 remediation objectives pursuant to 35 Ill. Adm. Code 742 shall not exceed a total of \$800.00.
  - 4) Payment for costs associated with Environmental Land Use Controls and Highway Authority Agreements used as institutional controls pursuant to 35 Ill. Adm. Code 742 shall not exceed \$800.00 per Environmental Land Use Control or Highway Authority Agreement.
  - 5) Payment for costs associated with the preparation and submission of corrective action completion reports shall not exceed a total of \$5,120.00.

**Section 734.850 Payment on Time and Materials Basis**

This Section sets forth the maximum amounts that may be paid when payment is allowed on a time and materials basis.

- a) Payment for costs associated with activities that have a maximum payment amount set forth in other sections of this Subpart H (e.g, sample handling and analysis, drilling, well installation and abandonment, drum disposal, or consulting fees for plans, field work, field oversight, and

reports) shall not exceed the amounts set forth in those Sections, unless payment is made pursuant to Section 734.855 of this Part.

- b) Maximum payments amounts for costs associated with activities that do not have a maximum payment amount set forth in other sections of this Subpart H shall be determined by the Agency on a site-specific basis, provided, however, that personnel costs shall not exceed the amounts set forth in Section 734.Appendix E of this Part. Personnel costs shall be based upon the work being performed, regardless of the title of the person performing the work. Owners and operators seeking payment shall demonstrate to the Agency that the amounts sought are reasonable.

BOARD NOTE: Alternative technology costs in excess of the costs of conventional technology are ineligible for payment from the Fund. See Sections 734.340(b) and 734.630(z) of this Part.

**Section 734.855 Unusual or Extraordinary Expenses**

If an owner or operator incurs unusual or extraordinary expenses that cause costs eligible for payment to substantially exceed the amounts set forth in this Subpart H, the Agency may determine maximum payment amounts for the expenses on a site-specific basis. Owners and operators seeking payment for unusual or extraordinary expenses shall demonstrate to the Agency that such expenses are unavoidable, reasonable, and necessary in order to satisfy the requirements of this Part.

**Section 734.860 Handling Charges**

Payment of handling charges shall not exceed the amounts set forth in Section 734.635 of this Part.

**Section 734.865 Agency Review of Payment Amounts**

No less than every two years the Agency shall review the provisions of this Subpart H. As part of its review the Agency shall determine whether the amounts set forth in this Subpart H generally reflect prevailing market rates. If, as a result of the review, the Agency determines that the amounts set forth in this Subpart H no longer generally reflect prevailing market rates, it shall propose appropriate amendments to the Board.

**Section 734.APPENDIX A Indicator Contaminants**

## TANK CONTENTS

### GASOLINE

leaded(1), unleaded, premium and gasohol

### MIDDLE DISTILLATE AND HEAVY ENDS

aviation turbine fuels(1)

jet fuels

diesel fuels

gas turbine fuel oils

heating fuel oils

illuminating oils

Kerosene

Lubricants

liquid asphalt and dust laying oils

cable oils

crude oil, crude oil fractions

petroleum feedstocks

petroleum fractions

heavy oils

transformer oils(2)

hydraulic fluids(3)

petroleum spirits(4)

mineral spirits(4), Stoddard solvents(4)

high-flash aromatic naphthas(4)

VM&P naphthas(4)

moderately volatile hydrocarbon solvents(4)

petroleum extender oils(4)

### USED OIL

- (1) lead is also an indicator contaminant
- (2) the polychlorinated biphenyl parameters listed in Appendix B are also indicator contaminants
- (3) barium is also an indicator contaminant
- (4) the volatile, base/neutral and polynuclear aromatic parameters listed in Appendix B are also indicator contaminants

## INDICATOR CONTAMINANTS

benzene

ethylbenzene

toluene

xylene

Methyl tertiary butyl ether (MTBE)

benzene

ethylbenzene

toluene

xylene

acenaphthene

anthracene

benzo(a)anthracene

benzo(a)pyrene

benzo(b)fluoranthene

benzo(k)fluoranthene

chrysene

dibenzo(a,h)anthracene

fluoranthene

fluorene

indeno(1,2,3-c,d)pyrene

naphthalene

pyrene

Acenaphthylene

Benzo(g,h,i)perylene

Phenanthrene

Screening sample(5)

- (5) used oil indicator contaminants shall be based on the results of a used oil soil sample analysis - refer to Section 734.405(g) of this Part

### Section 734.APPENDIX B Additional Parameters

#### Volatiles

1. Benzene
2. Bromoform
3. Carbon tetrachloride
4. Chlorobenzene
5. Chloroform
6. Dichlorobromomethane
7. 1,2-Dichloroethane
8. 1,1-Dichloroethene
9. cis-1,2-Dichloroethylene
10. Trans-1,2-Dichloroethylene
11. Dichloromethane (Methylene chloride)
12. 1,2-Dichloropropane
13. 1,3-Dichloropropylene (cis + trans)
14. Ethylbenzene
15. Styrene
16. Tetrachloroethylene
17. Toluene
18. 1,1,1-Trichloroethane
19. 1,1,2-Trichloroethane
20. Trichloroethylene
21. Vinyl chloride
22. Xylenes (total)

#### Base/Neutrals

1. Bis(2-chloroethyl)ether
2. Bis(2-ethylhexyl)phthalate
3. 1,2-Dichlorobenzene
4. 1,4-Dichlorobenzene
5. Hexachlorobenzene
6. Hexachlorocyclopentadiene
7. *n*-Nitrosodi-*n*-propylamine
8. *n*-Nitrosodiphenylamine
9. 1,2,4-Trichlorobenzene

#### Polynuclear Aromatics

1. Acenaphthene
2. Anthracene
3. Benzo(a)anthracene
4. Benzo(a)pyrene
5. Benzo(b)fluoranthene

6. Benzo(k)fluoranthene
7. Chrysene
8. Dibenzo(a,h)anthracene
9. Fluoranthene
10. Fluorene
11. Indeno(1,2,3-c,d)pyrene
12. Naphthalene
13. Pyrene
14. Acenaphthylene
15. Benzo(g,h,i)perylene
16. Phenanthrene

Metals (total inorganic and organic forms)

1. Arsenic
2. Barium
3. Cadmium
4. Chromium (total)
5. Lead
6. Mercury
7. Selenium

Polychlorinated Biphenyls

1. Polychlorinated Biphenyls  
(as Decachlorobiphenyl)

**Section 734.APPENDIX C Backfill Volumes**

Volume of Tank in Gallons	Maximum amount of backfill material to be removed:	Maximum amount of backfill material to be replaced:
	<u>Cubic yards</u>	<u>Cubic yards</u>
<285	54	56
285 to 299	55	57
300 to 559	56	58
560 to 999	67	70
1000 to 1049	81	87
1050 to 1149	89	96
1150 to 1999	94	101
2000 to 2499	112	124
2500 to 2999	128	143
3000 to 3999	143	161
4000 to 4999	175	198
5000 to 5999	189	219
6000 to 7499	198	235
7500 to 8299	206	250
8300 to 9999	219	268
10,000 to 11,999	252	312
12,000 to 14,999	286	357
>15,000	345	420

A conversion factor of 1.5 tons per cubic yard shall be used to convert tons to cubic yards.

**Section 734.APPENDIX D Sample Handling and Analysis**

	Max. Total Amount per Sample
<b>Chemical</b>	
BETX Soil with MTBE (EPA 8260)	\$85.00
BETX Water with MTBE (EPA 8260)	\$81.00
COD (Chemical Oxygen Demand)	\$30.00
Corrosivity	\$15.00
Flash Point or Ignitability Analysis EPA 1010	\$33.00
FOC (Fraction Organic Carbon)	\$38.00
Fat, Oil, & Grease (FOG)	\$60.00
LUST Pollutants Soil - analysis must include all volatile, base/neutral, polynuclear aromatic, and metal parameters listed in Section 734.AppendixB of this Part	\$693.00
Organic Carbon (ASTM-D 2974-87)	\$33.00



Dissolved Oxygen (DO)	\$24.00
Paint Filter (Free Liquids)	\$14.00
PCB / Pesticides (combination)	\$222.00
PCBs	\$111.00
Pesticides	\$140.00
PH	\$14.00
Phenol	\$34.00
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270	\$152.00
Polynuclear Aromatics PNA, or PAH WATER EPA 8270	\$152.00
Reactivity	\$68.00
SVOC - Soil (Semi-volatile Organic Compounds)	\$313.00
SVOC - Water (Semi-volatile Organic Compounds)	\$313.00
TKN (Total Kjeldahl) "nitrogen"	\$44.00
TOC (Total Organic Carbon) EPA 9060A	\$31.00
TPH (Total Petroleum Hydrocarbons)	\$122.00
VOC (Volatile Organic Compound) - Soil (Non-Aqueous)	\$175.00
VOC (Volatile Organic Compound) - Water	\$169.00
<b>Geo-Technical</b>	
Bulk Density ASTM D4292 / D2937	\$22.00
Ex-Situ Hydraulic Conductivity / Permeability	\$255.00
Moisture Content ASTM D2216-90 / D4643-87	\$12.00
Porosity	\$30.00
Rock Hydraulic Conductivity Ex-Situ	\$350.00
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54	\$145.00
Soil Classification ASTM D2488-90 / D2487-90	\$68.00
<b>Metals</b>	
Arsenic TCLP Soil	\$16.00
Arsenic Total Soil	\$16.00
Arsenic Water	\$18.00
Barium TCLP Soil	\$10.00
Barium Total Soil	\$10.00
Barium Water	\$12.00
Cadmium TCLP Soil	\$16.00
Cadmium Total Soil	\$16.00
Cadmium Water	\$18.00
Chromium TCLP Soil	\$10.00
Chromium Total Soil	\$10.00
Chromium Water	\$12.00
Cyanide TCLP Soil	\$28.00
Cyanide Total Soil	\$34.00
Cyanide Water	\$34.00

Iron TCLP Soil	\$10.00
Iron Total Soil	\$10.00
Iron Water	\$12.00
Lead TCLP Soil	\$16.00
Lead Total Soil	\$16.00
Lead Water	\$18.00
Mercury TCLP Soil	\$19.00
Mercury Total Soil	\$10.00
Mercury Water	\$26.00
Selenium TCLP Soil	\$16.00
Selenium Total Soil	\$16.00
Selenium Water	\$15.00
Silver TCLP Soil	\$10.00
Silver Total Soil	\$10.00
Silver Water	\$12.00
Metals TCLP Soil (a combination of all RCRA metals)	\$103.00
Metals Total Soil (a combination of all RCRA metals)	\$94.00
Metals Water (a combination of all RCRA metals)	\$119.00
Soil preparation for Metals TCLP Soil (one fee per sample)	\$79.00
Soil preparation for Metals Total Soil (one fee per sample)	\$16.00
Water preparation for Metals Water (one fee per sample)	\$11.00
<b>Other</b>	
En Core® Sampler, purge-and-trap sampler, or equivalent sampling device	\$10.00
Sample Shipping (*maximum total amount for shipping all samples collected in a calendar day)	\$50.00*

**Section 734.APPENDIX E Personnel Titles and Rates**

Title	Degree Required	Ill. License Req'd.	Min. Yrs. Experience	Max. Hourly Rate
Engineer I	Bachelor's in Engineering	None	0	\$70.00
Engineer II	Bachelor's in Engineering	None	2	\$80.00
Engineer III	Bachelor's in Engineering	None	4	\$100.00
Professional Engineer	Bachelor's in Engineering	P.E.	4	\$110.00
Senior Prof. Engineer	Bachelor's in Engineering	P.E.	8	\$130.00
Geologist I	Bachelor's in Geology or Hydrogeology	None	0	\$60.00
Geologist II	Bachelor's in Geology or Hydrogeology	None	2	\$70.00
Geologist III	Bachelor's in Geology or Hydrogeology	None	4	\$85.00
Professional Geologist	Bachelor's in Geology or Hydrogeology	P.G.	4	\$90.00
Senior Prof. Geologist	Bachelor's in Geology or Hydrogeology	P.G.	8	\$110.00
Scientist I	Bachelor's in a Natural or Physical Science	None	0	\$60.00

Scientist II	Bachelor's in a Natural or Physical Science	None	2	\$65.00
Scientist III	Bachelor's in a Natural or Physical Science	None	4	\$70.00
Scientist IV	Bachelor's in a Natural or Physical Science	None	6	\$75.00
Senior Scientist	Bachelor's in a Natural or Physical Science	None	8	\$85.00
Project Manager	None	None	8 <sup>1</sup>	\$90.00
Senior Project Manager	None	None	12 <sup>1</sup>	\$100.00
Technician I	None	None	0	\$45.00
Technician II	None	None	2 <sup>1</sup>	\$50.00
Technician III	None	None	4 <sup>1</sup>	\$55.00
Technician IV	None	None	6 <sup>1</sup>	\$60.00
Senior Technician	None	None	8 <sup>1</sup>	\$65.00
Account Technician I	None	None	0	\$35.00
Account Technician II	None	None	2 <sup>2</sup>	\$40.00
Account Technician III	None	None	4 <sup>2</sup>	\$45.00
Account Technician IV	None	None	6 <sup>2</sup>	\$50.00
Senior Acct. Technician	None	None	8 <sup>2</sup>	\$55.00
Administrative Assistant I	None	None	0	\$25.00
Administrative Assistant II	None	None	2 <sup>3</sup>	\$30.00
Administrative Assistant III	None	None	4 <sup>3</sup>	\$35.00
Administrative Assistant IV	None	None	6 <sup>3</sup>	\$40.00
Senior Admin. Assistant	None	None	8 <sup>3</sup>	\$45.00
Draftperson/CAD I	None	None	0	\$40.00
Draftperson/CAD II	None	None	2 <sup>4</sup>	\$45.00
Draftperson/CAD III	None	None	4 <sup>4</sup>	\$50.00
Draftperson/CAD IV	None	None	6 <sup>4</sup>	\$55.00
Senior Draftperson/CAD	None	None	8 <sup>4</sup>	\$60.00

<sup>1</sup> Equivalent work-related or college level education with significant coursework in the physical, life, or environmental sciences can be substituted for all or part of the specified experience requirements.

<sup>2</sup> Equivalent work-related or college level education with significant coursework in accounting or business can be substituted for all or part of the specified experience requirements.

<sup>3</sup> Equivalent work-related or college level education with significant coursework in administrative or secretarial services can be substituted for all or part of the specified experience requirements.

<sup>4</sup> Equivalent work-related or college level education with significant coursework in drafting or computer aided design ("CAD") can be substituted for all or part of the specified experience requirements.