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## BEFORE THE POLLUTION CONTROL BOARD OF THE STATE OF ILLINOIS

DEC 26 2003

STATE OF ILLINOIS

DETREX CORPORATION,	)	Pollution Control Board
Petitioner,	)	. 1
v.	)	PCB No. 04- 10
ILLINOIS ENVIRONMENTAL	)	(LUST Appeal – Ninety Day Extension)
PROTECTION AGENCY,	)	
Respondent.	)	

### **NOTICE**

Dorothy M. Gunn, Clerk Illinois Pollution Control Board James R. Thompson Center 100 West Randolph Street Suite 11-500 Chicago, IL 60601 David Craig
Manager of Environmental and Safety
Compliance
P.O. Box 5111
Southfield, MI 48086-5111

PLEASE TAKE NOTICE that I have today filed with the office of the Clerk of the Pollution Control Board a REQUEST FOR NINETY DAY EXTENSION OF APPEAL PERIOD, copies of which are herewith served upon you.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,

Respondent

John J. Kim Assistant Counsel

Special Assistant Attorney General

Division of Legal Counsel

1021 North Grand Avenue, East

P.O. Box 19276

Springfield, Illinois 62794-9276

217/782-5544

217/782-9143 (TDD)

Dated: December 23, 2003

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## BEFORE THE POLLUTION CONTROL BOARD OF THE STATE OF ILLINOIS

DEC 2 6 2003 STATE OF ILLINOIS

DETREX CORPORATION,	)	Pollution Control Board
Petitioner,	j	/
v.	)	PCB No. 04- 104
ILLINOIS ENVIRONMENTAL	)	(LUST Appeal – Ninety Day Extension)
PROTECTION AGENCY,	)	
Respondent.	)	

# REQUEST FOR NINETY DAY EXTENSION OF APPEAL PERIOD

NOW COMES the Respondent, the Illinois Environmental Protection Agency ("Illinois EPA"), by one of its attorneys, John J. Kim, Assistant Counsel and Special Assistant Attorney General, and, pursuant to Section 40(a)(1) of the Illinois Environmental Protection Act (415 ILCS 5/40(a)(1)) and 35 Ill. Adm. Code 105.208, hereby requests that the Illinois Pollution Control Board ("Board") grant an extension of the thirty-five (35) day period for petitioning for a hearing to April 27, 2004, or any other date not more than a total of one hundred twenty-five (125) days from the date of the Illinois EPA's final decision. In support thereof, the Illinois EPA respectfully states as follows:

- 1. On November 19, 2003, the Illinois EPA issued a final decision to the Petitioner. (Exhibit A)
- 2. On December 8, 2003, the Petitioner made a written request to the Illinois EPA for an extension of time by which to file a petition for review, asking the Illinois EPA join in requesting that the Board extend the thirty-five day period for filing a petition to ninety days. The Petitioner did not represent when the final decision was received. (Exhibit B)
- 3. The additional time requested by the parties may eliminate the need for a hearing in this matter or, in the alternative, allow the parties to identify issues and limit the scope of any hearing that may be necessary to resolve this matter.

WHEREFORE, for the reasons stated above, the parties request that the Board, in the interest of administrative and judicial economy, grant this request for a ninety-day extension of the thirty-five day period for petitioning for a hearing.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, Respondent

John J. Kim

**Assistant Counsel** 

Special Assistant Attorney General

Division of Legal Counsel

1021 North Grand Avenue, East

P.O. Box 19276

Springfield, Illinois 62794-9276

217/782-5544

217/782-9143 (TDD)

Dated: December 23, 2003

This filing submitted on recycled paper.



### ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601

ROD R. BLAGOJEVICH, GOVERNOR

RENCE CIPRIANO, DIRECTOR

217/524-3300

November 19, 2003

CERTIFIED MAIL 7002 3150 0000 1219 9459

Mr. David Craig **Detrex Corporation** P.O. Box 5111 Southfield, Michigan 48086-5111

RECEIVED

1107 2 4 2003

Re:

0311860003 -- Cook County

Detrex Corporation/Melrose Park Facility

ILI)074424938

Log Nos. B-113-CA-3; B-113-CΛ-4

**RCRA Permit** 

DETREX CORPORATION

Dear Mr. Craig:

This is in response to the following documents: (1) a document entitled "Phase II Stage 2 Investigation Summary and Tier 1 TACO Screening Evaluation for the Detrex's Corporation's RCRA Facility in Melrose Park, Illinois"; and (2) a document entitled "Tier 2 TACO Analysis for Detrex RCRA Facility, Melrose Park, Illinois, Addendum to Dames & Moore's June 29, 1997 Site Investigation Report". These submittals were prepared and submitted on your behalf by Ms. Betty J. Locey, Ph.D., of Dames & Moore regarding RCRA corrective action activities being carried out at the above-referenced facility.

Overall, the facility is required to investigate and remediate, as necessary, four solid waste management units (SWMUs) in accordance with the requirements set forth in Section III of the facility's RCRA permit (Log No. B-113 and associated modifications). A drawing showing the location of the four SWMUs within the facility is attached. Illinois EPA approved a Phase I RCRA Facility Investigation (RFI) Work Plan on June 17, 1993. A RFI Phase I Report was approved by Illinois EPA on June 15, 1994. A RFI Phase II Work Plan was approved by Illinois EPA on January 27, 1995. A RFI Phase II (Stage 1) Report and proposed Stage II activities were approved by Illinois EPA on July 18, 1996.

The first submittal mentioned above contained results of the Stage II site assessment and a Tiered Approach to Corrective Action Objective (TACO) Tier 1 evaluation for soil and groundwater. The second submittal mentioned above contained: (1) a TACO Tier 2 evaluation for soil; (2) a Tier 3 evaluation; (3) a basis for eliminating the groundwater pathway; and (4) a conclusion that a combination of institutional and engineering control be used to limit exposure and risk at the site.

ROCKFORD - 4302 North Main Street, Rockford, IL 61103 - (815) 987-7760 • DES PLAINES - 9511 W. Harrison St., Des Plaines, IL 60015 - (847) 294-4000 Ergin – 595 South State, Elgin, IL 60123 – (847) 608-3131 • Peoria – 5415 N. University St., Peoria, IL 61614 – (309) 693-5463

BURTAU OF LAND - PTORIA – 7620 N. University St. Peoria IL 61614 – (309) 693-5462

SPRINCHIED – 4500 S. Sixth Street Rd., S.



DEC-10-S003 LNE 02:17 PM DETREX CORP DEC-19-5003 Z177829807 7P:5P

The subject submittals were reviewed as modifications to the RCRA corrective action program for the subject facility and cannot be approved at this time due to the following reasons:

- 1. Based upon a review of the January 1998 submittal, it appears that the facility intends to climinate the soil ingestion, inhalation and migration to groundwater exposure routes. However, it was not identified what regulations were used to eliminate these exposure routes. The facility must clearly identify the regulations in 35 Ill. Adm. Code 742 that were used to eliminate these exposure routes. The facility must also identify how the requirements of those regulations were met.
- 2. Based upon a review of the sampling results, it appears that soil contamination exceeds both the soil attenuation capacity and the soil saturation capacity at some sampling points. In accordance with 35 Ill. Adm. Code 742.305(a) and (b), an exposure route cannot be excluded if concentration of organic contaminants of concern exceeds the soil attenuation capacity and soil saturation limit, respectively. The facility must identify how the exceedances above the soil attenuation capacity and soil saturation limit will be addressed. It should be noted that a comparison of the soil attenuation capacity or soil saturation limit be made to the contaminant concentration at a discrete sampling point not the average values.
- 3. It appears that the facility intends to eliminate ingestion and inhalation exposure routes using engineered barriers, such as existing building, and landscaping (grass covered areas). In order to use an engineered barrier to eliminate an exposure route, the facility must propose engineered barriers that meet the requirements of 35 Ill. Adm. Code 742, Subpart K, for Illinois EPA's review and approval. Areas with landscaping, grass covered or snow covered areas are not considered proper engineered barriers under 35 Ill. Adm. Code 742, Subpart K.
- 4. Use of engineered barriers and elimination of exposure routes requires that an institutional control be established to place certain restrictions at the site. An environmental land use control (ELUC) is an acceptable institutional control under 35 Ill. Adm. Code 742 (TACO) and must be submitted to the Illinois EPA for review and approval. A deed restriction as proposed in Section 5.0 cannot be used as an institutional control under TACO. A model ELUC can be found at Illinois EPA's website (www.epa.state.il.us).
- 5. Section 4.4 of the January 1998 submittal does not conclusively demonstrate that off-site impacts cannot be associated to Detrex facility. Trichloroethene that was detected in off-site samples at high concentrations is the main contaminant at the facility and was also managed at the facility. Section 4.4 also indicates that commercial/industrial criteria developed for on-site receptors is appropriate for the adjacent properties. It should be noted that if Tier 2 remediation objectives are used to evaluate off-site contamination that

are based on land use other than residential, an institutional control will be necessary to place land use restriction at off-site property. This may require concurrence of off-site property owners to allow land use restriction be placed on their property.

- 6. Illinois EPA has the following comments regarding groundwater information contained in the subject submittals:
  - a. In accordance with 35 Ill. Adm. Code 742.800, if the contaminant concentrations in groundwater exceed the applicable Tier 1 remediation objectives, a facility has the option to propose and obtain approval of Tier 2 groundwater remediation objectives in accordance with 35 Ill. Adm. Code 742.805. In order to develop Tier 2 groundwater remediation objectives and request approval from the Illinois EPA, the facility must provide information associated with 35 Ill. Adm. Code 742.805(a) through (c).
  - b. At this time, the Illinois EPA cannot concur that it is appropriate to eliminate the groundwater ingestion exposure route. The facility has not demonstrated, in accordance with 35 III. Adm. Code 742.320, that the elimination is appropriate for the site. Any demonstration to exclude the groundwater ingestion exposure route must meet the requirements found in 35 III. Adm. Code 742.320 and be submitted to the Illinois EPA for review and approval.
  - c. All information used to develop groundwater remediation objectives in accordance with 35 Ill. Adm. Code Part 742 must be provided to the Illinois EPA for review and approval. Specifically, in regards to groundwater, any proposal for Tier 2 groundwater remediation objectives must contain detailed information in support of any calculations made. This includes providing:
    - i. The actual calculations made;
    - ii. Identification of all input values for the calculations; and
    - iii. Documentation supporting the input values used in conducting the calculation. All physical parameters used in making the calculations must be site-specific.
  - d. The City of Melrose Park Ordinance #321 has been approved for use as an institutional control and the City of Melrose Park and the Illinois EPA have entered into a Memorandum of Understanding. In order to utilize the ordinance as an institutional control to restrict the use of groundwater the facility must provide the information required by 35 Ill. Adm. Code 742, Subpart J and Attachment 3 to this

> letter entitled Use of an Ordinance as an Institutional Control for Groundwater RCRA Closure Projects.

- Currently the Class II Groundwater Quality Standards as they appear in 35 111, Adm. Code 620.420 are the facility's groundwater cleanup objectives for the shallow groundwater beneath the site. These cleanup objectives shall apply until alternative standards are approved pursuant to 35 III. Adm. Code 620.450(a)(4)(B) using the procedures found in 35 Ill. Adm. Code 742. Approval of alternative standards will require maintenance of a Groundwater Management Zone (GMZ) under 35 Ill. Adm. Code 620.450 until the applicable standards are achieved or an adjusted standard is granted by the Illinois Pollution Control Board (PCB).
- Detrex must locate groundwater monitoring well MW-4. Groundwater monitoring well MW-4, along with other existing wells at the facility (MW-1, MW-2, MW-3, MW-5, and MW-6), must be maintained in accordance with 77 Ill. Adm. Code 920 regulations.
- Illinois EPA's Toxicity Assessment Unit (TAU) has the following comments regarding Tier 2/Tier 3 analysis contained in the subject submittals:
  - <u>Depth Weighted Average</u>. TACO is fairly specific in its guidance on compositing samples and averaging sample results. When averaging sample results, discrete samples should be taken every two feet beginning at 0.5 feet and continuing through the zone of contamination. For this site, it appears that a two foot sampling interval was composited. Another two foot composite was taken approximately two feet deeper. These composites were then summed and divided by the length of the boring. While this method is a little unconventional, it does not seem to change the outcome to a significant degree.
  - b. Mixtures. Mixtures of similar-acting chemicals should be addressed following the procedures in 742.720, 742.805 and 742.915 for all chemicals of concern, including those excluded from further consideration in Tier 1.
  - <u>Toxicity Values</u>. Table 6 lists the toxicity values used in the equations. Inhalation c. Reference Doses are listed, when available, for chemicals. However, the SSL equations use Reference Concentrations, not doses. The values used in the SSL equations should be specified.
  - d. <u>Construction Workers</u>. Some of the remediation objectives for the construction workers exceeded. Detrex is requesting that these be handled with a worker caution statement attached to the deed. This is a decision that should be made by CORE.

- c. <u>Barriers to Exposures</u>. This assessment relies on the building and landscaping to limit or climinate contact with soil on-site. In accordance with 742.1000, institutional controls must be placed on the property when engineered barriers are used.
- f. <u>Land Use</u>. This assessment assumes that the land use will be industrial/commercial. Deed restrictions need to be placed on the property to ensure this use.
- g. <u>Soil Attenuation Capacity</u>. Samples collected from the same boring cannot be averaged to determine compliance with soil attenuation capacity. If the soil attenuation capacity is exceeded, this is an indication that there is free product and the TACO equations were not designed to model two phases.
- h. <u>Table 22</u>. This table lists the chemicals which exceeded the final Tier 2 cleanup objectives. A comparison with Table 18 indicates that benzo(a)pyrene and dibenzo(a,h)anthracene also exceeded Tier 2 objectives in some soil borings. These two chemicals should be added to the list of chemicals in the soil column which exceeded objectives.
- 8. A revised document must be submitted to Illinois EPA for review and approval addressing the deficiencies noted above. The main goal of this revised document is the establishment of soil and groundwater remediation objectives which must be achieved to meet the corrective action requirements of the subject facility's RCRA permit. This submittal must also address certain deficiencies noted above regarding the characterization of the contamination present at this facility; it must be noted that 35 Ill. Adm. Code 742.120 requires that the contamination at a facility be properly characterized before remediation objectives can be developed using the procedures set forth in 35 Ill. Adm. Code 742.

In general, this revised document should contain the following information and be developed in accordance with the subject facility's RCRA permit and 35 Ill. Adm. Code 620, 724, and 742:

- Background information about the facility and corrective action efforts completed to date;
- b. An overview of the geology and hydrogeology of the facility;
- A summary of the results of the soil and groundwater investigations conducted to date;
- d. Proposed soil and groundwater remediation objectives for the project, including all data and information needed to develop these objectives;

- e. A discussion of the procedures which will be followed to address the deficiencies noted above regarding data gaps in the characterization of the soil and groundwater contamination at the facility; and
- f. A general discussion of the procedures which will be followed to achieve the proposed soil and groundwater remediation objectives.

A completed RCRA corrective action certification (copy enclosed) must accompany the revised document mentioned above as well as all other submittals made to Illinois EPA regarding RCRA corrective action activities.

Overall, RCRA corrective action efforts at this facility must meet the requirements of the facility's RCRA permit and 35 Ill. Adm. Code 620, 724 and 742.

This letter shall constitute Illinois EPA's final decision on the subject submittal. Within 35 days of the date of mailing of the Illinois EPA's final decision, the applicant may petition for a hearing before the Illinois Pollution Control Board to contest the decision of the Illinois EPA, however, the 35-day period for petitioning for a hearing may be extended for a period of time not to exceed ninety days by written notice provided to the Board from the applicant and the Illinois EPA within the 35-day initial appeal period.

Work required by this letter, your submittal or the regulations may also be subject to other laws governing professional services, such as the Illinois Professional Land Surveyor Act of 1989, the Professional Engineering Practice Act of 1989, the Professional Geologist Licensing Act, and the Structural Engineering Licensing Act of 1989. This letter does not relieve anyone from compliance with these laws and the regulations adopted pursuant to these laws. All work that falls within the scope and definitions of these laws must be performed in compliance with them. The Illinois EPA may refer any discovered violation of these laws to the appropriate regulating authority.

Jun Moore
217-5243295
Corrector achn

Should you have any questions regarding groundwater related matters associated with this project, please contact Terri Blake Myers, L.P.G., at 217/524-3300. Questions regarding Tier 3 analysis should be directed to Tracey Hurley at 217/785-0830; questions regarding other aspects of this project should be directed to Munib Ahmad, P.E., at 217/524-3263.

Sincerely,

Joyce L. Munie, P.F./ Manager, Permit Section

Bureau of Land

JI.M:MA:bjh\03582s.doc

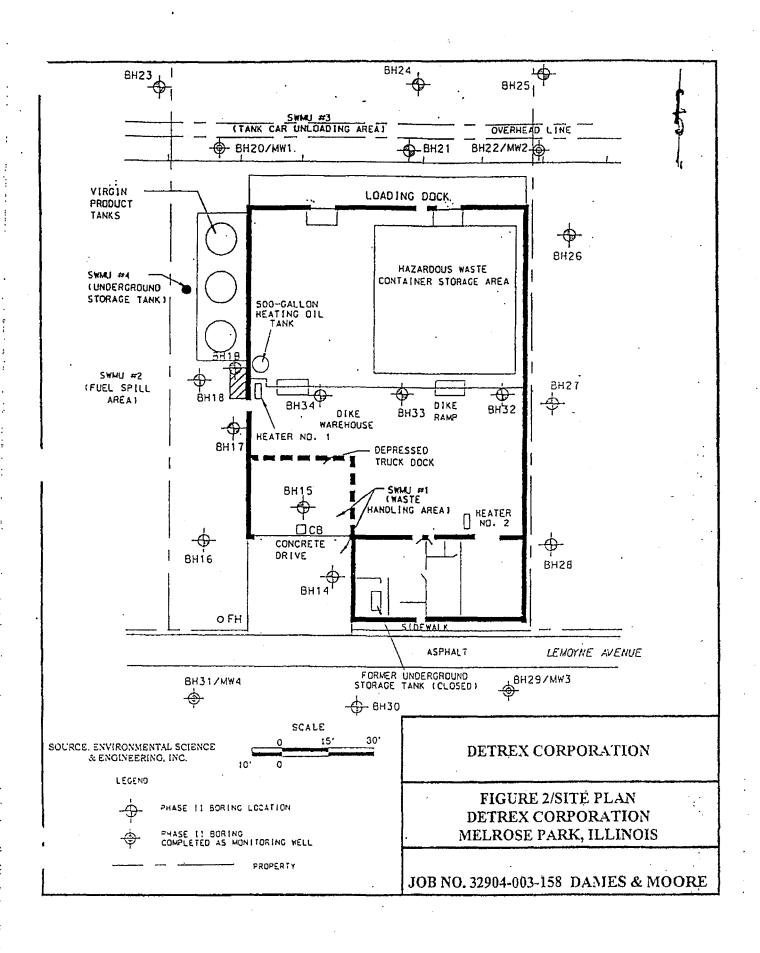
Attachments: Site Layout Map

RCRA Corrective Action Certification From

Use of an Ordinance as an Institutional Control for Groundwater for RCRA

Closure Projects

cc: Betty J. Locey, Dames & Moore



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### Use of an Ordinance as an Institutional Control for Groundwater for RCRA Closure Projects

35 Ill. Adm. Code 742.1015 sets forth the requirements for using ordinances as institutional controls to restrict groundwater usage in an area. Such an ordinance must effectively prohibit the installation and use of potable water supply wells. 35 lll. Adm. Code 742.1015(b) and (c) prescribes specific requirements for the information that must be submitted to the Illinois EPA along with a request for approval of an ordinance. The remainder of 35 Ill. Adm. Code 742.1015 includes notification, tracking, and recording requirements that also must be met. All provisions of 35 Ill. Adm. Code 742.1015 must be satisfied to perfect the use of the ordinance as an environmental institutional control. The purpose of this document is to identify the requirements which must be met when using an ordinance as an institutional control to restrict groundwater usage at a RCRA closure site.

The informational requirements under 35 Ill. Adm. Code 742.1015(b) (Items 1.a through f below) must be met and submitted to Illinois EPA for the approval of a local ordinance as an institutional control. The document prepared to address these informational requirements will be incorporated into the Illinois EPA's eventual no further remediation determination to be recorded as required by 35 Ill. Adm. Code 742.1015(f). Additionally, upon Illinois EPA approval of this document, the document shall be submitted to all owners of each affected property and to the unit of local government as required in 35 Ill. Adm. Code 742.1015(b)(6) (Item 1.f below) and 742.1015(e), respectively. A more detailed discussion of these requirements follows:

Pursuant to 35 III. Adm. Code 742.1015(b), a request submitted to Illinois EPA for approval of a local ordinance as an institutional control shall provide the following:

> A copy of the ordinance restricting groundwater use certified by an official of the unit of local government in which the site is located that it is the latest, most current copy of the ordinance. The ordinance must demonstrate that potable use of groundwater from potable water supply wells is prohibited;

A scaled map(s) delineating the areal extent of groundwater contamination (measured or modeled) above the applicable Tier 1 groundwater remediation objectives, including:

- 1. map scale (i.e., 1 inch is equal to no more than 200 feet) and date,
- 2. orientation of the map (north arrow),
- 3. legal boundaries of the facility,
- buildings and other permanent structures,

- 3. Information showing the concentration of contaminants of concern in which the applicable Tier 1 groundwater remediation objectives are exceeded. This information would best be presented as a table identifying the contaminant(s) of concern and their respective concentration(s);
- 4. A scaled map delineating the boundaries of all properties under which groundwater is located which exceeds the applicable Tier 1 groundwater remediation objectives;
- 5. Information identifying the current owner(s) of each property identified in 1.d. This information would best be presented as a table which identifies the property owner's name(s) and address(es); and
- 6. A copy of the proposed submission of the information to the current owners identified in 1.d of the information required in 1.a through 1.e and a copy of the written notification document required in 2.

As required by 35 Ill. Adm. Code 742.1015(b)(6) (Item 1.f above), the written notification in 742.1015(c) (Item 2 below) shall be prepared and submitted for Illinois EPA review. This document shall, upon Illinois EPA approval, be submitted, as required by 35 Ill. Adm. Code 742.1015(c) (Item 2 below) to the property owners identified in 35 Ill. Adm. Code 742.1015(b)(5) (Item 1.e above) and the unit of local government. This document shall also be incorporated into the Illinois EPA's no further remediation determination to be recorded as required by 35 Ill. Adm. Code 742.1015(f).

- 2. Each of the property owners identified in 1.d and the unit of local government must receive written notification from the party desiring to use the institutional control that groundwater remediation objectives have been approved by the Illinois EPA. Written proof of this notification shall be submitted to the Illinois EPA within 45 days from the date of the instrument memorializing the Illinois EPA's no further remediation determination. The notification shall include:
  - 1. The name and address of the unit of local government;
  - 2. The citation to the ordinance;
  - 3. A description of the property being sent notice by adequate legal description or by reference to a plat showing the boundaries;
  - 4. A statement that the ordinance restricting groundwater use has been used by the Illinois EPA in reviewing a request for a groundwater remediation objective;

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- A statement as to the nature of the release and response action with the site name, 5. address, and Illinois EPA site number or Illinois inventory identification number; and
- A statement that more information may be obtained regarding the ordinance through a 6. written request under the Freedom of Information Act (5 ILCS 140) to:

Illinois Environmental Protection Illinois EPA Attention: Freedom of Information Act Officer Bureau of Land -- #24 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276

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#### CORPORATION

P.O. BOX 5111 • SOUTHFIELD, MI 48086-5111 • (248) 358-5800 • FAX (248) 358-5803

December 8, 2003

Ms. Joyce Munie, P.E., Manager ILEPA, Permit Section Bureau of Land 1021 North Grand Ave. East PO Box 19276 Springfield IL 62794-9276

VIA: Certified Mail

RE: 0311860003 - Cooke County

Detrex Corporation / Melrose Park Facility

ILD 074 424 938

Log #s: B-113-CA-3; B-113-CA-4

**RCRA Permit** 

Dear Ms. Munie:

Detrex Corporation is in receipt of your letter dated November 19, 2003 regarding the previous submissions to the FRI (Phase II Stage 2, TACO Tier I, II, & III) performed at our site in Melrose Park. We have reviewed the ILEPA's final decisions and would like to petition for a hearing with the Illinois Pollution Control Board to discuss the various comments noted in your letter. However, in order to properly prepare for that hearing we are requesting that the original 35-day period be extended to 90-days due to the longevity since these documents were originally submitted and the fact that we are now approaching years end.

I have discussed obtaining the extension with Mr. Jim Moore, Mr. Ahmad's supervisor. Under his direction this extension request is being submitted to your attention with an electronic copy sent directly to him.

Thank you in advance for your help and consideration in providing the necessary extension to the hearing before the Illinois Pollution Control Board. If you need any additional information in order to complete the request, please feel free to contact me at 248-358-5800, ext. 131.

Sincerely.

**David Craig** 

Manager of Environmental and Safety Compliance

(ian)

CC:

File

S. Miles - DTRX

B. Locey – Arcadis

J. Moore – ILEPA (jim.moore@epa.sate.il.us)

RECEIVED

DEC 1 1 2003

1EPA - BOL PERMIT SECTION

#### **CERTIFICATE OF SERVICE**

I, the undersigned attorney at law, hereby certify that on December 23, 2003, I served true and correct copies of a REQUEST FOR NINETY DAY EXTENSION OF APPEAL PERIOD, by placing true and correct copies in properly sealed and addressed envelopes and by depositing said sealed envelopes in a U.S. mail drop box located within Springfield, Illinois, with sufficient First Class Mail postage affixed thereto, upon the following named persons:

Dorothy M. Gunn, Clerk Illinois Pollution Control Board James R. Thompson Center 100 West Randolph Street Suite 11-500 Chicago, IL 60601 David Craig
Manager of Environmental and Safety
Compliance
P.O. Box 5111
Southfield, MI 48086-5111

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,

Responde

John J. Kim

**Assistant Counsel** 

Special Assistant Attorney General

Division of Legal Counsel

1021 North Grand Avenue, East

P.O. Box 19276

Springfield, Illinois 62794-9276

217/782-5544

217/782-9143 (TDD)