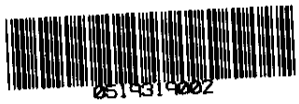
DOCUMENT PREPARED BY
AND MAIL TO:
Lanphier & Kowalkowski, Ltd.
568 Spring Rd., Ste. B
Elmhurst, IL 60126-3896



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Eugene "Gene" Moore Fee: $184.50
Cook County Recorder of Deeds
Date: 07/12/2005 08:12 AM Pg: 1 of 81

VILLAGE OF MELROSE PARK - UST OWNER/OPERATOR
PUBLIC THOROUGHFARE AUTHORITY AGREEMENT
INITIAL INFORMATION FORM
FOR LEAKING UNDERGROUND
STORAGE TANK SITES

LOTS 21, 22, 23, 24, 25, 26, 27, 28, 29 AND 30 IN BLOCK 8 IN GOSS JUDD AND SHERMAN'S WEST DIVISION STREET HOME ADDITION, BEING A SUBDIVISION OF THE NORTH WEST 1/4 OF SECTION 3, TOWNSHIP 39 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

PIN NOS.: 15-03-124-009; 15-03-124-010; 15-03-124-011; 15-03-124-012; 15-03-124-013; 15-03-124-014; 15-03-124-015; 15-03-124-016; 15-03-124-017; 15-03-124-018

c/k/a: 1515 N. 25th Avenue, Melrose Park, IL 60160

VILLAGE OF MELROSE PARK -UST OWNER/OPERATOR PUBLIC THOROUGHFARE AUTHORITY AGREEMENT INITIAL INFORMATION FORM FOR LEAKING UNDERGROUND STORAGE TANK SITES

OVERVIEW

The purpose of this document is to notify the Village of Melrose Park of the extent of hydrocarbon impact within soil and/or groundwater and to provide the necessary initial information needed to enter into a highway authority agreement, pursuant to 35 IAC 742.1020.

Applicant Information

UST Owner: Jay Tee Screw Machine Products Co.
Address: 1515 N. 25th Avenue
Melrose Park, IL 60160

Operator (if different): n/a
Address

Telephone No: (708) 344-5835
Fax No: (708) 344-1575
Name and Title of Person Authorized to Sign for Owner: Thomas Schweihs
Name and Title of Person Authorized to Sign for Operator (if different): n/a

Applicant's Attorney

Name: E. Paul Lanphier
Address: Lanphier & Kowalkowski, Ltd.
568 Spring Road, Suite B
Elmhurst, IL 60126
Telephone No: (630) 832-7759

Environmental Consultant

Name: Kowalenko & Bilotti, Inc.
Address: 118 N. Peoria, Suite 5-N
Chicago, IL 60607

Telephone No: (312) 853-0500

Property Adjacent to the Right-of-Way

Address: 1515 N. 25th Avenue

Right-of-Way(s) requiring Highway Agreement

(Check one or both)

Highway Number(s): n/a
☒ Soil Impact in Right-of-Way
☒ Groundwater Impact in Right-of-Way

Highway Number(s): n/a

Regulatory Information

LPC Number: 0311865040
IEPA Project Manager: Jim Mergen

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anphierlaw@Ameritech.net
Dupage Attorney # 46900
Cook Attorney # 05802

IEPA Status: (Check one)
☒Conditional Approval[1] ☐Approval Pending
☐Other_____

Sampling in the Right-of-Way

(Check one)
☒Right-of-Way sampled
☐Right-of-Way impractical to sample
(Sampling was done adjacent to Right-of-Way)

Person(s) to be Notified in Agreement

Name:
Address:

Nature and extent of Hydrocarbon Impact Information - For Exhibit A
The Closure Report/Closure Response Letter will document the nature and extent of hydrocarbon impact in the right-of-way.

Soil: Refer to Figure 1 - Estimated Soil Impact in the Right-of-Way Map using Tier One Residential Corrective Action Objectives
Groundwater: Refer to Figure 2 - Estimated Groundwater Impact in the Right-of-Way Map Using Tier One Corrective Action Objectives
Tables showing soil and groundwater sampling results in the right-of-way (if sampled) and/or adjacent to it need to be submitted and keyed to Figures 1 and 2. Samples above Tier 1 One Residential Corrective Action Objectives need to be highlighted.

Area Covered by Highway Authority Agreement - For Exhibit B

(Check one)
☒Refer to Exhibit B - Proposed Highway Authority Agreement Location Map
☐Location not proposed (The Department will draw map based on Figures 1 and 2)

Attachments:
☒Figure 1 Estimated Soil Impact Map
☒Figure 2 Estimated Groundwater Impact Map
☒Figure 3 Proposed Highway Agreement Location Map
☒Tables Showing Sampling Results
☐Closure Report
☒Other - Photos of Alleyway Utility Markings Remediation Objectives Report/Remedial Action Plan (ROR/RAP) August 7, 2003 IEPA Approval Letter

[1]ROR/RAP Approved with conditions (August 7, 2003).

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Cook Attorney # 05802

MASTER AGREEMENT

TIERED APPROACH TO CORRECTIVE-ACTION OBJECTIVES AGREEMENT

This Agreement is entered into this_____day of July, 2004 pursuant to 35 Ill. Admin. Code 742.1020 by and between JAY TEE SCREW MACHINE PRODUCTS CO., an Illinois corporation, ("Owner/Operator") and the VILLAGE OF MELROSE PARK, ILLINOIS, a Municipal corporation, ("Village"), as follows:

1. This Agreement is not binding upon the Village and prior to execution, this Agreement constitutes an offer by Owner/Operator. The duly authorized representatives of Owner/Operator have signed this Agreement and this Agreement is binding upon them, their successors and assigns.

2. a. Owner/Operator is pursuing a corrective action of a Site and of the right-of-way adjacent to the boundary of the Site located at 1515 N. 25th Avenue, in the Village (the "Site").

2. b. Attached as Exhibit A are site maps prepared by Owner/Operator which show the area of estimated contaminant impacted soil and/or groundwater at the time of this Agreement in the right-of-way above Tier 1 residential levels under 35 Ill. Admin. Code Part 742. Also shown in Exhibit A are tables prepared by Owner/Operator showing the concentration of contaminants of concern, hereafter "Contaminants", in soil and/or groundwater within the Site and which shows the applicable Tier 1 soil remediation objectives for residential property and Tier 1 objectives for groundwater of the Illinois Pollution Control Board ("IPCB") which are exceeded along the boundary of the Site adjacent to the Right-of-Way. The right-of-way, and only the right-of-way, as described in Exhibit B, hereinafter the "Right-of-Way", adjacent to the site is subject to this Agreement. As the drawings in the Exhibits are not surveyed plats, the boundary of the Right-of-Way in the Exhibits may be an approximation of the actual right-of-way lines. The Right-of-

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Way has been sampled and the area of the Right-of-Way is adequate to encompass soil and/or groundwater within the Right-of-Way impacted with Contaminants from a release at the Site.

2. c. Owner/Operator intends to request risk-based, site specific soil and groundwater remediation objectives from the Illinois Environmental Protection Agency ("IEPA") under 35 Ill. Admin. Code Part 742.

2. d. Under these rules, use of risk-based, site specific remediation objectives in the Right-of-Way may require the use of a Public Thoroughfare Authority Agreement as defined in 35 Ill. Admin. Code Section 742.1020.

3. The Village holds a fee simple interest or a dedication for alleyway purposes in the Right-of-Way, or the Right-of Way is a platted alley, and has jurisdiction of the Right-of-Way. For purposes of this Agreement, "jurisdiction" means that the Village exercises access control over the use of groundwater beneath the Right-of-Way and over access to the soil beneath the Right-of-Way because it requires a permit for that access.

4. a. Under 35 Ill. Admin. Code Section 742.1020, this Agreement is intended to be an acceptable "Public Thoroughfare Authority Agreement" to IEPA, as the Village is willing to agree that it will not allow the use of groundwater under the alley Right-of-Way as a potable or other domestic supply of water and that it will limit access as described herein to soil under the alley Right-of-Way that is contaminated from the release of contaminants at levels above residential Tier 1 remediation objectives.

4. b. The IEPA the Illinois Attorney General ("AG") and the Village of Melrose Park must review and approve this Agreement, and this Agreement shall be referenced in the IEPA's "No Further Remediation" determination in the chain of title for the Site in the County where the Site

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is located.

4. c. This Agreement shall be null and void as a Public Thoroughfare Authority Agreement should the IEPA, the AG or the Village of Melrose Park not approve it or should it not be referenced in the "No Further Remediation" determination, provided, however, that this Agreement shall be effective between the Owner/Operator and the Village immediately upon signature by their representatives.

5. The Village promises IEPA and the Owner/Operator that it will prohibit the use of groundwater that is contaminated from the release at the Site at levels above Tier 1 remediation objectives beneath its Right-of-Way as a potable or other domestic supply of water and will limit access to soil as described herein under the Right-of-Way that is contaminated from the release at the Site at levels above Tier 1 remediation objectives. As the pavement in the Right-of-Way may be considered an engineered barrier, the Owner/Operator agrees to reimburse the Village for maintenance activities requested by Owner/Operator in writing in order to maintain it as a barrier. The Village does not otherwise agree to perform maintenance of the Right-of-Way, nor does it agree that the alley Right-of-Way will always remain an alley or that it will maintain the Right-of-Way as an engineered barrier.

6. The Owner/Operator agrees to indemnify and hold harmless the Village and other highway authorities, if any, maintaining the alley Right-of-Way by an agreement with the Village, and the Village's agents, contractors or employees for all obligations asserted against or costs incurred by them, including attorney's fees and court costs, associated with the release of Contaminants from the Site, regardless whether said obligations or costs were caused by the negligence, but not the gross negligence, of them.

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7. As an additional consideration, Owner/Operator agrees to reimburse the Village for the reasonable costs it has incurred in protecting human health and the environment, including, but not limited to, identifying, investigating, handling, storing and disposing of contaminated soil and groundwater in the Right-of-Way as a result of the release of contaminants at this Site which release is attributable to the Owner/Operator. At the time the Village has incurred no costs for Owner.

8. This Agreement shall be binding upon all successors in interest to the Owner/Operator or alley Right-of-Way. A successor in interest of the Village would include an authority to which the Village would transfer jurisdiction of the alley.

9. Violation of the terms of this Agreement by Owner/Operator, or their successors in interest, may be grounds for voidance of this Agreement as an Authority Agreement. Violation of the terms of this Agreement by the Village will not void this Agreement, unless the IEPA has determined that the violation is grounds for voiding this Agreement as an "Authority Agreement" and the Village has not cured the violation within such time as IEPA has granted to cure the violation.

10. This Agreement shall continue in effect from the date of this Agreement until the Right-of-Way is demonstrated to be suitable for unrestricted use and there is no longer a need for this Agreement as an Authority Agreement, and the IEPA has, upon written request to the IEPA by the Owner/Operator and notice to the Village amended the notice in the chain of title of the Site to reflect unencumbered future use of that alley Right-of-Way.

11. This Agreement is in settlement of claims the Village may have arising from the release of Contaminants into the Right-of-Way.

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12. This Agreement does not limit the Village's ability to construct, reconstruct, improve, repair, maintain and operate an alley upon its property or to allow others to use the highway Right-of-Way by permit. To that extent, the Village reserves the right and the right of those using its property under permit to remove contaminated soil or groundwater above Tier 1 residential remediation objectives from its Right-of-Way and to dispose of them as they deem appropriate not inconsistent with applicable environmental regulations to protect human health and the environment. Prior to taking any such action, the Village will first give Owner/Operator written notice, unless there is an immediate threat to the health or safety to any individual or to the public, that it intends to perform a site investigation in the Right-of-Way and remove or dispose of contaminated soil or groundwater to the extent necessary for its work. Failure to give notice is a violation of this Agreement. The removal or disposal shall be based upon the site investigation (which may be modified by field conditions during excavation), which Owner/Operator may review or may perform, if requested to do so by Village. If practicable, as determined by the Village, the Village may request Owner/Operator to remove and dispose of the contaminated soil or groundwater necessary for the Department's work in advance of that work. The Owner/Operator shall reimburse the reasonable costs incurred by the Village to perform the site investigation and to dispose of any contaminated soil or groundwater, provided, however, that if notice to Owner/Operator has not been given and there was no immediate threat to health or safety, there shall be no reimbursement for those costs. Should Owner/Operator not reimburse the reasonable costs under the conditions set forth herein, this Agreement shall be null and void, at the Village's option, upon written notice to Owner/Operator by the Village that those costs have not been reimbursed. Owner/Operator may cure that problem within twenty working days

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by making payment, or may seek to enjoin that result.

13. Written notice required by this Agreement shall be mailed to the following:

If to Owner/Operator:

Jay Tee Screw Machine Products Co.
Attn: Thomas Schweihs
1515 N. 25th Avenue
Melrose Park, IL 60160-1893

With Carbon Copy To:

E. Paul Lanphier
Lanphier & Kowalkowski, Ltd.
568 Spring Road, Suite B
Elmhurst, IL 60126-3896

If to Village:

Acting Village Attorney of the Village of Melrose Park
1000 N. 25th Avenue
Melrose Park, IL 60161

14. The Village's sole responsibility under this Agreement with respect to others using the alley Right-of-Way under permit from the Village is to include the following, or similar language, in the future standard permit provisions and to make an effort to notify its current permit holders of the following:

As a condition of this permit, the permittee shall request the Village to identify sites in the Right-of-Way where access to contaminated soil or groundwater is governed by Tiered Approach to Corrective-Action Objectives ("TACO") Agreements. The permittee shall take measures before, during and after any access to these sites to protect worker safety and human health and the environment. Excavated, contaminated soil should be managed off-site in accordance with all environmental laws.

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15. This Agreement is entered into by the Village in recognition of laws passed by the General Assembly and regulations adopted by the Pollution Control Board which encourage a tiered-approach to remediating environmental contamination. This Agreement is entered into by the Village in the spirit of those laws and under its right and obligations as a Municipal corporation. Should any provisions of this Agreement be struck down as beyond the authority of the Village, however, this Agreement shall be null and void.

IN WITNESS WHEREOF, Owner/Operator, JAY TEE SCREW MACHINE PRODUCTS CO., an Illinois corporation, has caused this Agreement to be signed by its duly authorized representative.

BY: Thomas C. Schweihs DATE: 7-29-04
THOMAS SCHWEIHS, President

IN WITNESS WHEREOF, the Village has caused this Agreement to be signed by its Secretary.

Village of Melrose Park

BY: Mary Padovani Sulenes DATE: 5-12-05
Secretary

This Agreement is approved on behalf of the Office of the Illinois Attorney General.

BY: _____ DATE: _____

DOCUMENT PREPARED BY:
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Elmhurst, IL 60126-3896

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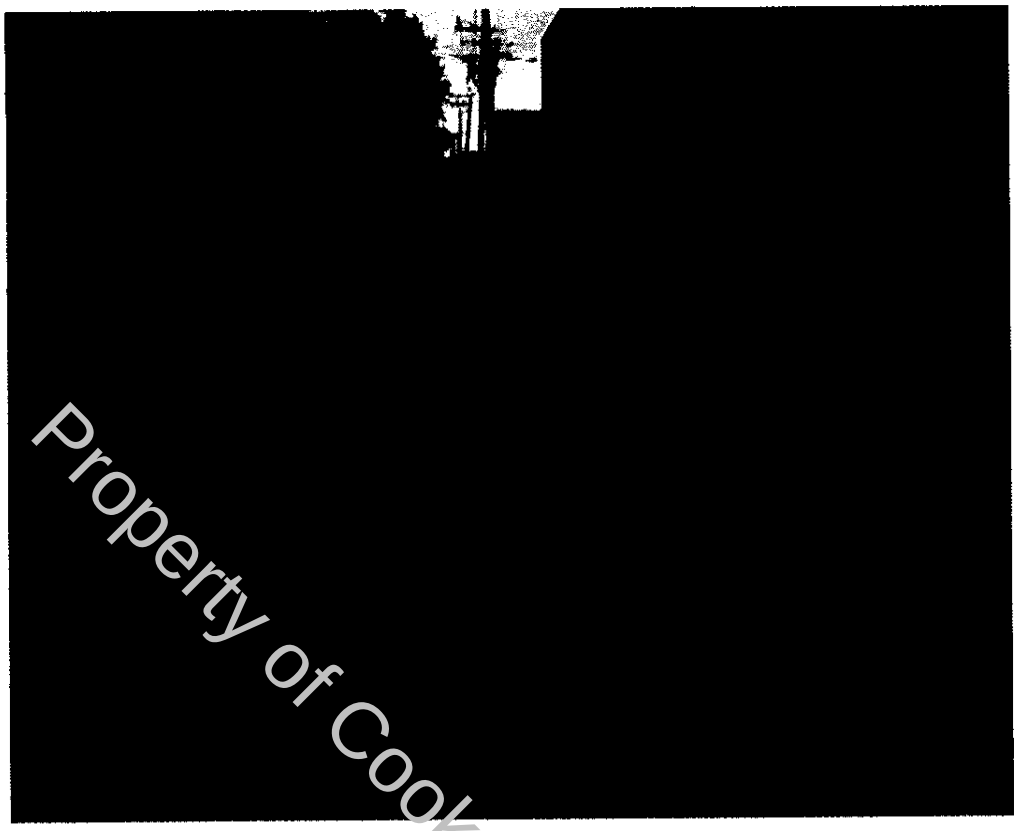
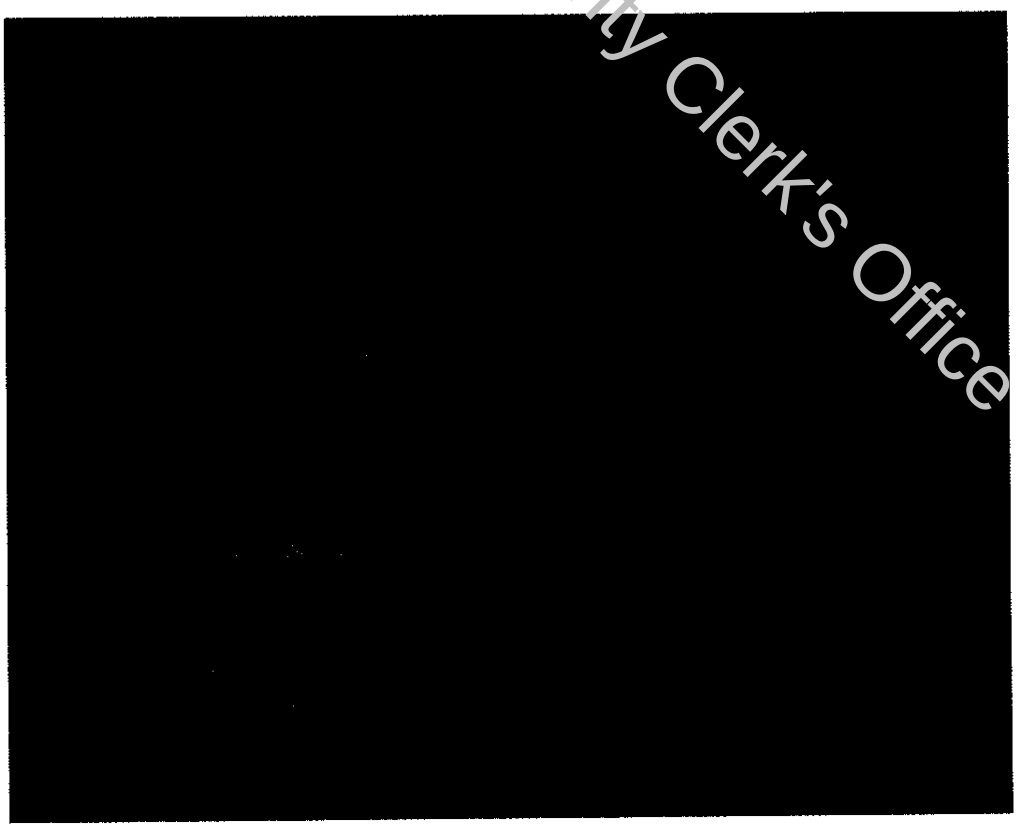
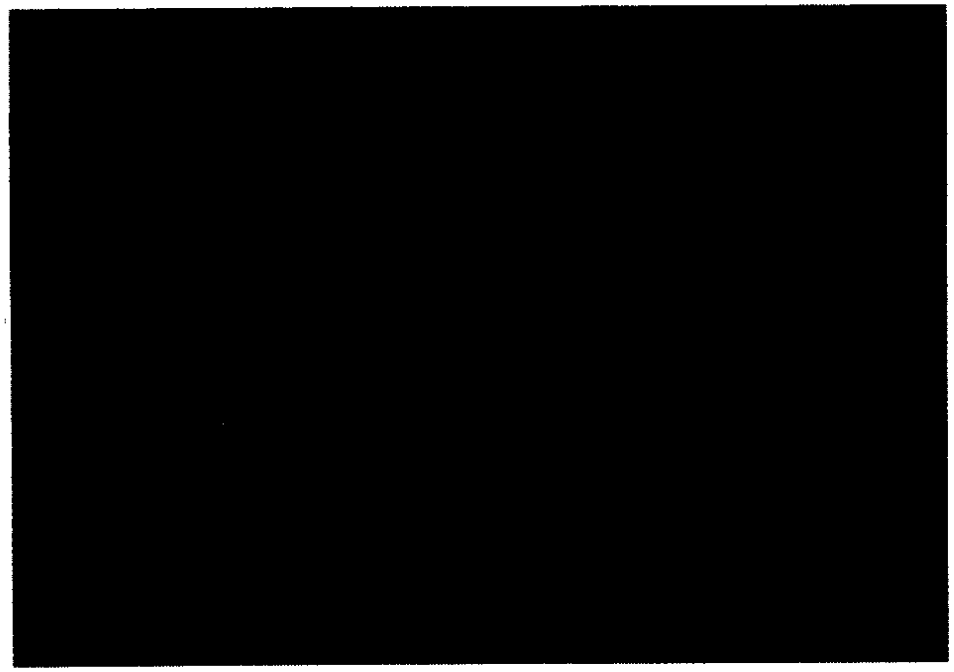


View of alleyway looking east from N. 25th Avenue.

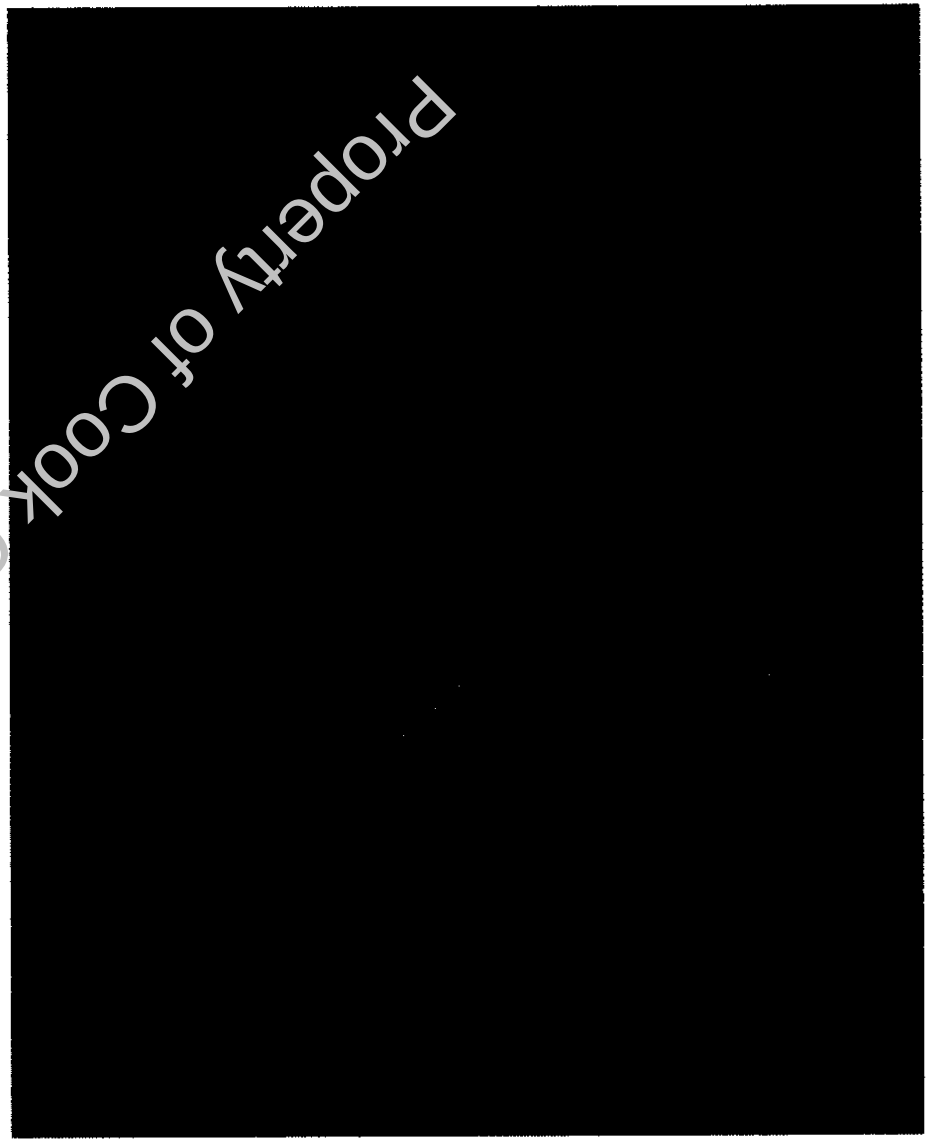


View of markings by JULIE; no gas or electric in alley.



View of alleyway facing west toward N. 25th Ave. Note telephone service along southern edge of alley.

No water service in alleys.



View of markings by JULIE; no gas, electric or SBC utilities in alley.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276, 217-782-3397
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601, 312-814-6026

217-524-1659 ROD R. BLAGOJEVICH, GOVERNOR RENEE CIPRIANO, DIRECTOR

7002 3150 0000 1222 7671

August 7, 2003

Mr. Thomas Schweihs
Jay-Tee Screw Machine Products Company
1515 North 25th Avenue
Melrose Park, Illinois 60160

Re 0311865040 – Cook County
Melrose Park/Jay-Tee Screw
Site Remediation/Technical Reports

Subject: Approval with Conditions of June 13, 2003/Log #03-2406 *Remediation Objectives Report/ Remedial Action Plan* Prepared by Kowalenko & Bilotti, Inc. for the Jay-Tee Screw Property

Dear Mr. Schweihs:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed your June 13, 2003/Log #03-2406 *Remediation Objectives Report/ Remedial Action Plan*. Based on this review, your Remediation Objectives Report and Remedial Action Plan are approved with the following conditions.

Your site specific soil attenuation value of 38,100 mg/kg is determined to be adequate. Your demonstrations using equation S-29 that site specific soil saturation limits of 7,153 mg/kg for trichloroethylene, 1,229 mg/kg for tertachloroethylene, 6,815 mg/kg for 1,1-Dichloroethane and 2,803 mg/kg for vinyl chloride are determined to be adequate. You will need to demonstrate that levels of these contaminants of concern in groundwater do not exceed their respective solubility in water values as listed in Section 742 Appendix C, Table E in your remedial action completion report.

In your remedial action completion report, determine fully the vertical and horizontal extent of contamination at the site and in the alleyway south of the site. The boring depth proposing in Section 4.4 of your remedial action plan (12 to 16 feet) may not be sufficient to determine the vertical extent of contamination in soil at your remediation site. Consider sampling at the highest PID reading within a boring then re-sampling at the practical maximum boring depth or point of non-detect PID reading. If contaminant levels at the adjacent southern property boundary south of the alleyway exceed soil ingestion/ inhalation exposure limits, a risk assessment will need to be conducted on potentially impacted adjacent property(s).

In your remedial action plan you propose to exclude the soil ingestion and inhalation exposure routes through Section 742, Subpart C utilizing existing engineered barriers (building foundation and pavement) plus a highway agreement protecting the adjacent alleyway. Your proposed Tier 2 soil remediation objectives for industrial/ commercial ingestion and inhalation exposure routes plus Tier 2 construction worker protection limits are not applicable to the alleyway pursuant to the highway agreement provisions of Section 742.1020. Section 742.1020 provides that a Highway Authority Agreement may be used to limit access to soil contamination under the highway right of way that is contaminated above residential Tier 1 remediation objectives from the release. Access to soil contamination may be allowed if, during and after any access, public health and the environment are protected. Access to soil contamination within the Village of Melrose Park right-of-way may be allowed if construction worker protection plan provisions for contaminants of concern are included in the proposed Highway Authority Agreement. Alternatively, provide a demonstration through confirmation sampling analytical data that soils remaining after your proposed excavation result in contaminant levels below Tier 1 construction worker protection limits.

Demonstrate that the site meets the requirements of Subpart C and Subpart J to invoke the Village of Melrose Park Groundwater Ordinance. Conduct an adequate groundwater investigation to determine if free product exists in groundwater at the site and verify no existing potable wells or well set back zones relative to the modeled contaminant plume.

Pursuant to 35 Illinois Administrative Code ("IAC") 740.415(d)(6), all quantitative analyses of samples collected on or after January 1, 2003, and utilizing any of the approved test methods identified in 35 IAC 186.180, shall be completed by an accredited laboratory in accordance with the requirements of 35 IAC 186. Quantitative analyses not utilizing an accredited laboratory in accordance with Part 186 shall be deemed invalid.

The Agency requests not less than fourteen calendar days notification of all site investigation and remedial activities in order to coordinate Agency oversight. This notification is particularly important when groundwater or soil samples are being collected. Failure to notify the Agency may invalidate sample analysis results and/or other site activities.

If you have any questions concerning these issues, please contact me at 217-524-1659.

Sincerely,

Jim Mergen
Remedial Project Manager
Voluntary Site Remediation Unit

cc: Mr. Thomas A. Brecheisen, P.E., Engineering Project Manager, Kowalenko & Bilotti, Inc., 1866 Sheridan Road, Suite 308, Highland Park, Illinois 60035

REMEDIATION OBJECTIVES REPORT / REMEDIAL ACTION PLAN

Jay-Tee Screw Machine Products Company
1515 North 25th Avenue
Melrose Park, Illinois 60160

(ORIGINAL)

Prepared by:

Anthony Bilotti, Ph.D.
Technical Services Director

Thomas A. Brecheisen, P.E.
Engineering Project Manager

Prepared for
MB Financial Bank, N.A.

June 9, 2003

REMEDIATION OBJECTIVES REPORT / REMEDIAL ACTION PLAN

Jay-Tee Screw Machine Products Company
1515 North 25th Avenue
Melrose Park, Illinois 60160

(ORIGINAL)

Prepared for:
MB Financial Bank, N.A.

June 9, 2003

Kowalenko & Bilotti, Inc.
118 North Peoria Street, Suite 5N
Chicago, IL 60607
telephone (312) 853-0500
fax (312) 853-0311
www.kbconsulting.net

EXECUTIVE SUMMARY

Due to a prospective property transaction, Kowalenko & Bilotti, Inc. (K&B) was contracted by MB Financial Bank (Property Owner) to procure a focused No Further Remediation Letter (NFR Letter) for the Jay-Tee Screw Machine Company (Jay-Tee; Remedial Applicant) for the Remediation Site located at 1515 North 25th Avenue in Melrose Park, Illinois (Figures 1-2). The Remediation Site has been enrolled in the Illinois EPA's Site Remediation Program (SRP) since 1993.

Based on K&B's review of the July 15, 1999 *Site Investigation and Closure Report for the Site Remediation Program* Report prepared by Clayton Environmental Consultants (Clayton Report) and conversations with the IEPA project manager, the following concerns require attention prior to the issuance of a focused NFR Letter:

1. ***Remove the abandoned UST***
2. ***Excavate soil contamination exceeding default C_{sat} concentration***

As an alternative to the costly and impractical nature of the above listed concerns, K&B developed a remedial action plan that would utilize the regulatory options provided in 35 IAC 742, Tiered Approach to Corrective Action Objectives (TACO), to demonstrate the VOC-impacted soil could be managed in-place while remaining protective of human health and the environment. Thus, this report is intended to serve as a Remediation Objectives Report and Remedial Action Plan (ROR/RAP) in accordance with Sections 740.440, 740.445, and 740.450 and is submitted for formal Illinois EPA review and approval under the appropriate IEPA-prescribed DRM-2 form, which is included in Appendix A.

During the preparation of this ROR/RAP, a K&B Project Engineer met on-site with a representative of Jay-Tee and a licensed professional UST removal company (RW Collins Co.) to evaluate the feasibility of removing the abandoned UST. The removal of the UST was found to be impractical because it is buried beneath a load bearing wall in an active commercial facility. Moreover, the building constraints would prevent the access and overhead clearance that would be necessary for the heavy duty UST removal equipment. Therefore, the UST must remain abandoned-in-place.

The UST was abandoned-in-place in 1988 and is currently registered with the Office of the State Fire Marshal (OSFM) with a "closed" status. K&B contacted the OSFM to ensure the UST was closed and the OSFM verified the UST was officially closed. Since the UST was emptied, cleaned and filled with an inert solid, the abandoned UST system does not pose a threat of undergoing a future release, and this potential source of TCE contamination has been removed. The existence of this abandoned UST should not interfere with the issuance of a focused NFR Letter because it has been formally closed with the OSFM.

One soil boring was advanced and soil samples were collected and submitted for laboratory analysis of organic carbon, hydraulic conductivity and pH. K&B used the results of the

physical soil testing to determine the site-specific attenuation capacities (surficial & subsurface) and site/chemical-specific saturation concentrations (C_{sat} values). The results of these calculations were then compared to the historical VOC concentrations to determine whether a Tier 2 evaluation and/or the elimination of exposure pathways would be allowable for the Remediation Site.

Results of the soil testing confirmed that the organic carbon content of the site's soils ranged from 3.81% (surficial) to 5.96% (subsurface) and that the hydraulic conductivity of site's soils is 1.27 (10^{-5}) cm/s. The pH of the site's soils was reported as 8.5 standard units. Using these results, K&B calculated the site-specific soil attenuation capacity and chemical specific C_{sat} values to determine if the site was eligible for a Tier 2 Evaluation, and if so, whether the elimination of exposure pathways would be allowable at the site.

The site-specific soil attenuation capacity was not exceeded by the maximum historical soil concentrations of VOCs. Therefore, the requirements of Section 742.600(e) are satisfied and a Tier 2 Evaluation is allowable for the Remediation Site. K&B then conducted an Exposure Route Evaluation to determine whether the elimination of exposure pathways would be possible pursuant to Subpart C of TACO. The results of the Exposure Route Evaluation indicated the requirements of Section 742.305 were met and the elimination of exposure pathways would be possible at the Remediation Site. As a result, K&B intends to eliminate the groundwater ingestion exposure pathway on-site pursuant to Section 742.320 as the Village of Melrose Park currently has an IEPA-approved ordinance with a Memorandum of Understanding (MOU).

Based on the anticipated elimination of the groundwater ingestion exposure pathway on-site, K&B then developed Tier 2 SROs for the remaining ingestion and inhalation pathways. Given the site's current and anticipated future use as an industrial/commercial facility, the Tier 2 SROs were calculated for the industrial/commercial and construction worker populations and are proposed for formal Illinois EPA review and approval.

In order to address the off-site soil contamination in the southern adjacent alleyway, K&B intends to pursue a Highway Authority Agreement (HAA) between the Remedial Applicant and the Village of Melrose Park. The HAA would require that the alleyway remain paved to eliminate the ingestion and inhalation exposure routes. K&B will discuss these institutional controls with the Village of Melrose Park after the IEPA approves the RAP.

In addition to the previously described Tier 2 Evaluation, the Remedial Action Plan will consist of verification and definition soil sampling activities that will be sufficient to meet the requirements of Section 742.300(b), including laboratory testing of the targeted COCs (VOCs). The results of the soil sampling activities will be compared to the most stringent calculated Tier 2 SROs and, based on the size of the source, Equation R-14 and R-26 modeling will be performed to determine the extent of any potential future groundwater impacts and ensure the Tier 1 GROs are met at the appropriate compliance point. K&B will exercise additional options provided in TACO as necessary.

TABLE OF CONTENTS

1.0 INTRODUCTION

Due to a prospective real estate transaction, Kowalenko & Bilotti, Inc. (K&B) was recently contracted by MB Financial Bank (Property Owner) to provide environmental engineering services for the Jay-Tee Screw Machine Products Company (Remedial Applicant), located at 1515 North 25th Avenue in Melrose Park, Illinois (Figure 1). The purpose of the environmental engineering services was to review historical data and develop a scope of work that would bring the site to formal site closure and procure a focused No Further Remediation Letter (NFR Letter) through the voluntary Site Remediation Program (SRP).

In January 2003, K&B prepared a *Phase I Environmental Site Assessment* (Phase I ESA) for the subject site. During the preparation of the Phase I ESA, K&B discovered that the Jay-Tee Screw Machine Company (Jay-Tee) has been enrolled in the voluntary SRP since 1993. K&B reviewed the *Site Investigation and Closure Report for the Site Remediation Program* (Clayton Report) prepared by Clayton Environmental Consultants and dated July 15, 1999. The Clayton Report documented the on-site presence of an abandoned-in-place underground storage tank (UST). The Clayton Report also documented the presence of soils impacted by volatile organic compounds (VOCs) on-site and off-site in the southern adjacent public alleyway.

Trichloroethylene (TCE) was detected in the soil at a concentration exceeding the default soil saturation concentration (C_{sat}) near the Remediation Site southern boundary. Off-site testing performed by Clayton characterized the southern extent of the VOC-contamination; however, based on conversations with the IEPA Project Manager for this site, the presence of TCE in soil at levels exceeding the default C_{sat} value and the UST were prohibitive in the NFR process. K&B understood that the IEPA desired the UST to be removed along with the excavation and disposal of soils impacted by TCE at levels exceeding the default C_{sat} value.

After a thorough review of the Clayton Report and conversations with the IEPA Project Manager, K&B developed a remedial action plan that would allow the VOC-impacted soils to remain in-place while remaining protective of human health and the environment. Thus, K&B has prepared this Remediation Objectives Report (ROR) and Remedial Action Plan (RAP) in accordance with Sections 740.440, 740.445, and 740.750.

The overall approach employed by K&B during the development of this ROR/RAP was to determine whether the UST could be removed and then develop site-specific Tier 2 soil remediation objectives, including soil attenuation capacity and chemical-specific C_{sat} values that would demonstrate the VOC-impacted soils could be safely managed in-place. The ROR/RAP is submitted under the appropriate IEPA-prescribed DRM-2 form (Appendix A) for formal IEPA review and approval in order to establish an acceptable route to site closure and the ultimate issuance of a focused NFR Letter for the Remediation Site (Figure 2).

2.0 UNDERGROUND STORAGE TANK

2.1 Historical Abandonment-In-Place

Based on the database records reviewed during the preparation of the Phase I ESA, the 2,000-gallon UST buried at the Remediation Site is registered with a "closed" status. In addition, the information received from the Office of the State Fire Marshal (OSFM) indicates the appropriate measures were taken to permanently close the UST in-place. K&B was informed by a representative of Jay-Tee that the UST was emptied, cleaned, filled with pea gravel and sealed with concrete by Mr. Frank, Inc. in 1988. Based on a June 2, 1989 letter from Mr. Frank Inc. to the Jay-Tee Screw Machine Co, the UST was triple rinsed with Chemical Truck Wash Soap and hot water pressure wash, and the residue was then removed with a vacuum truck on June 15, 1988 and then backfilled with pea gravel and concrete on July 7, 1988. An invoice for these services and a Certificate of Destruction prove that this work was actually performed. In order to confirm that the UST is permanently closed, K&B contacted the OSFM to verify that the UST is, in fact, closed. The representative from the OSFM informed K&B that the UST is closed and the abandonment-in-place was accepted. The OSFM records reviewed during the preparation of the Phase I ESA verify that the UST is "closed" and permanently abandoned-in-place. This documentation is included in Appendix B.

2.2 UST Removal Feasibility

Despite the fact the UST is registered as closed, K&B mobilized to the Remediation Site in conjunction with a licensed UST removal company, R.W. Collins Co. on April 3, 2003. The purpose of the site visit was to locate the UST and determine whether it could practically be removed. The UST was found to be buried beneath a concrete floor and a load-bearing wall. It would not be possible to remove this UST without jeopardizing the structural integrity of the subject building, which is an active business. Therefore, the removal of the UST is not practical. Even if the UST were not buried beneath a load bearing wall, the horizontal and vertical building constraints prevent the access and

overhead clearance for the machinery needed to remove a UST. Because the UST can not be removed practically, abandonment-in-place is appropriate. Photographs and a letter from R.W. Collins Co. demonstrate that the removal of this UST is not possible given the building spatial constraints and are included in Appendix C.

2.3 UST System Conclusions

The removal of this UST is not required. The UST is registered with a "closed" status and is permanently abandoned in-place. In 1988, the contents of the UST were removed, the tank was triple rinsed with industrial cleaning materials and filled with pea gravel and concrete, which was sufficient for the OSFM to issue a closed status to the UST.

The above demonstration was performed to show that this UST system is no longer a potential source of VOC-contamination. No further precautionary measures seem necessary to prevent a future release of hazardous compounds from the abandoned UST system. Because the UST system is formally closed with the OSFM, its existence beneath the Remediation Site should not interfere with the issuance of an NFR Letter through the IEPA SRP.

3.0 DEVELOPMENT OF REMEDIATION OBJECTIVES

3.1 Introduction

Based on a review of the Clayton Report, K&B concluded that the presence of TCE-impacted soil exceeding the default C_{sat} value for TCE was prohibitive in obtaining site closure as the requirements of Section 742.305 were not met. Therefore, K&B developed a scope of work to develop site-specific remediation objectives. The scope of work involved the collection of soil samples for laboratory analysis of organic carbon and hydraulic conductivity. The organic carbon results would then be used to develop site-specific soil attenuation capacities and C_{sat} values for the COCs in accordance with respective Sections 742.215 and 742.220.

Since the Remediation Site is located within the Village of Melrose Park, which currently has a groundwater use restriction and a Memorandum of Understanding (MOU) with the IEPA in accordance with Section 742.1015(a), K&B conducted an Exposure Route Evaluation to determine whether the elimination of exposure pathways (i.e. groundwater ingestion) would be possible at the Remediation Site. K&B then determined whether the requirements for conducting a Tier 2 Evaluation (Section 742.600[e]) were met in anticipation of calculating site-specific Tier 2 SROs for the Remediation Site.

3.2 Contaminants-of-Concern

Based on the former contents of the UST (TCE) and the nature of the soil contaminants identified in the Clayton Report, K&B established volatile organic compounds (VOCs), including: trichloroethylene (TCE), dichloroethylene isomers (DCE), and Vinyl Chloride (VC), as the appropriate contaminants-of-concern (COCs) for the Remediation Site.

3.3 Site-Specific Data Acquisition

In order to determine the site-specific soil attenuation capacities and C_{sat} values, K&B developed a sampling plan specifically designed to determine the following soil parameters: organic carbon content (f_{oc}), hydraulic conductivity (K) and pH. On April 3,

2003, K&B mobilized to the Remediation Site in conjunction with CS Drilling, Inc. One soil boring, RAP-1, was advanced in the parking area north of the subject building in a non-impacted area (Figure 3).

The soil boring was advanced through asphalt using standard geoprobe techniques to a depth of 12 feet below surface grade. The soils were classified according to the United Soil Classification System (USCS) and field screened with a flame ionization detector (FID) at two-foot intervals. Soil samples from 2'-4' and 4'-8' were selected for analyses of organic carbon via ASTM method D-2974 and the sample from 8'-12' was analyzed for hydraulic conductivity in accordance with ASTM method D-5084.

Results indicated the site's sunficial and subsurface soils possess organic carbon contents of 3.81% and 5.96%, respectively. The hydraulic conductivity of the soil beneath the site is 1.27 (10^{-8}) cm/s. The pH of the site's soils is approximately 8.5. A copy of the soil boring log and the laboratory analytical report is included in Appendix D.

3.4 Exposure Route Evaluation

Because the Village of Melrose Park has an IEPA-approved ordinance and Memorandum of Understanding (MOU), K&B intends to eliminate the groundwater ingestion exposure pathway on-site. However, prior to the elimination of *any* exposure pathways, the following requirements of Sections 742.300 and 742.305 must be met. The following Exposure Route Evaluation is performed to determine if the elimination of exposure pathways will be allowable at the Remediation Site.

- *No exposure route may be excluded from consideration until characterization of the extent and concentrations of contaminants-of-concern at a site has been performed. The actual steps and methods taken to characterize a site shall be determined by the specific program requirements under which the site remediation is being addressed (Section 742.300[b]).*

The horizontal and vertical extent of VOC-contamination is roughly defined. However, K&B intends to more fully characterize the extent and concentrations of contaminants of

concern at the site in accordance with 35 IAC 740. Based on the soil sampling discussed in the following section, this condition will be met.

- *The sum of the concentrations of all organic contaminants of concern shall not exceed the attenuation capacity of the soil as determined under Section 742.215 (742.305[a]).*

Based on the results of the organic carbon analyses (3.81%; 5.96%), the respective site-specific attenuation capacities for surficial and subsurface soils are 38,100 mg/kg and 59,600 mg/kg pursuant to Section 742.215. The maximum sum of organic COCs detected at (C-7 [8-10C]) totaled only 14,000 mg/kg. When an organic COC was not detected at a concentration above the laboratory detection limit, the detection limit was assumed as the analytical concentration. Therefore, this condition is satisfied.

- *The concentrations of any organic contaminants of concern remaining in the soil shall not exceed the soil saturation limit as determined under Section 742.220 (742.305[b]).*

Site-specific soil saturation limits were calculated pursuant to Section 742.220(c)(2) by solving Equation S-29 substituting only the site-specific organic carbon concentrations. The results are tabulated in the following table in comparison to the maximum historical VOC concentrations (C-7 [8-10C]).

TABLE 3.4.1

Max. Concentrations vs. Site-specific C_{sat}

Contaminant of Concern	Maximum Historical Concentration	Site Specific Saturation Concentration (C_{sat})	
	C-7 (8-10C)	Surficial	Subsurface
Tetrachloroethylene	<100	1,229.25	1,900.67
Trichloroethylene	6,000	7,153.71	11,143.19
1,1-Dichloroethane	<100	6,815.28	10,642.66
Vinyl Chloride	<100	2,803.77	3,877.14

All concentrations in mg/kg (ppm).

As displayed above, the maximum historical VOC concentrations do not exceed the site-specific soil saturation limits. Thus, this condition is satisfied. The site-specific C_{sat} calculations are included in Appendix E.

- *Any soil which contains contaminants of concern shall not exhibit any of the characteristics of reactivity for hazardous waste as determined under 35 IAC 721.123 (Section 742.305[c]).*

Based on prior experience with these organic COCs, it is not likely that the soils exhibit the characteristics of reactivity for hazardous waste. Therefore, this condition is considered satisfied.

- *Any soil which contains contaminants of concern shall not exhibit a pH less than or equal to 2.0 or greater than or equal to 12.5, as determined by SW-846 Method 9040B: pH electrometric for soils with 20% or greater aqueous (moisture) content or by SW-846 Method 9045C: Soil pH for soils with less than 20% aqueous (moisture) content as incorporated by reference in Section 742.210 (Section 742.305[d]).*

The results of the analysis for pH indicated the site's soils exhibit a pH of 8.5 in accordance with SW-846 Method 9045C (Appendix C). Thus, this condition is met.

- *Any soil which contains contaminants of concern in the following list of inorganic chemicals or their salts shall not exhibit any of the characteristics of toxicity for hazardous waste as determined by 35 IAC 721.124, or an alternative method approved by the Agency: arsenic, barium, cadmium, chromium, lead, mercury, selenium or silver (Section 742.305[e]).*

None of the inorganic chemicals listed in Section 742.305(e) are contaminants of concern. Thus, this condition is not applicable and satisfied by default.

- *If contaminants of concern include polychlorinated biphenyls (PCBs), the concentration of any PCBs in the soil shall not exceed 50 parts per million as determined by SW-846 Methods (Section 742.305[f]).*

PCBs are not contaminants of concern at the Remediation Site. Thus, this condition is met as it is not applicable.

Based on the above demonstration, the elimination of exposure pathways will be allowable at the Remediation Site and therefore, K&B intends to eliminate the groundwater ingestion exposure pathway on-site in accordance with Section 742.320 and develop Tier 2 SROs for the remaining exposure pathways.

3.5 Tier 2 SROs

Because the Village of Melrose Park has an IEPA-approved ordinance and Memorandum of Understanding (MOU) that meets the requirements of Section 742.1015, K&B will eliminate the groundwater ingestion exposure pathway on-site. Since the requirements of Section 742.600(e) are met, Tier 2 SROs were developed for the remaining exposure pathways, ingestion and inhalation.

Using the site-specific hydraulic conductivity and organic carbon concentrations, K&B calculated Tier 2 SROs using the third party software, TACO Plus!™. All remaining input parameters were default values published by the IEPA in TACO. The results of the Tier 2 SRO calculations are summarized in the following table. Considering the site's current and anticipated future use, Tier 2 SROs were calculated for two populations, industrial / commercial workers and construction workers.

TABLE 3.5.1

Proposed Tier 2 SROs

Targeted COC	Industrial / Commercial		Construction Worker	
	Ingestion	Inhalation	Ingestion	Inhalation
Tetrachloroethylene	110.06	20.45	2,388.49	28.76
Trichloroethylene	520.29	8.92	1,224.27	12.54
1,1-Dichloroethane	1,004.07	7.05	21,789.72	9.91
Vinyl Chloride	7.95	1.10	172.50	1.11

All values listed in mg/kg (ppm).

Copies of the Tier 2 SRO worksheets are included in Appendix E. Tier 2 SROs for the migration to groundwater exposure pathway are not listed above because the groundwater ingestion exposure pathway will be eliminated on-site.

3.6 REMEDIATION OBJECTIVES CONCLUSIONS

Based on the information presented in this section, a Tier 2 Evaluation is allowable at the site and the elimination of exposure pathways is allowable for this site. Since the Remediation Site is located within the Village of Melrose Park, which currently has a groundwater use restriction and an MOU with the IEPA in accordance with Section 742.1015(a), the groundwater ingestion exposure pathway will be eliminated on-site pursuant to Section 742.320. Tier 2 SROs were developed for the remaining ingestion and inhalation exposure pathways, and these proposed Tier 2 SROs represent the cleanup objectives for the Remediation Site. K&B requests formal IEPA acknowledgement of the Tier 2 SROs proposed herein.

4.0 REMEDIAL ACTION PLAN

4.1 Introduction

K&B has developed remediation objectives as described in the previous section. In order to achieve these remediation objectives, the following remedial action activities will be executed, subject to IEPA approval of the remediation objectives proposed in Section 3.0 of this report. The overall approach of the remedial action activities is to fully characterize the extent of contamination and then use regulatory options available in TACO to demonstrate the contamination may be managed-in-place while remaining protective of human health and the environment.

4.2 UST Closure

K&B believes the previous demonstration that the UST has been closed-in-place verifies the potential source of TCE contamination has been removed and that no future release of hazardous chemicals will occur from the former UST system. Thus, no further consideration should be given to the UST until building demolition activities occur in the future. The UST should be removed during demolition activities; however, it is officially closed with the OSFM and it should not prohibit the issuance of a focused NFR Letter.

4.3 Highway Authority Agreement

In order to address the off-site soil contamination beneath the public alleyway immediately south of the Remediation Site, the Remedial Applicant has indicated a preference to enter into a Highway Authority Agreement with the Village of Melrose Park. Therefore, K&B will propose that the alley remain paved and that no potable wells be installed. However, before asking the Village of Melrose Park to accept institutional controls on the public alleyway immediately south of the remediation site, K&B would like IEPA approval of this approach.

4.4 Soil Sampling

Upon IEPA approval of the ROR/RAP, K&B will initiate soil sampling activities sufficient to satisfy the requirements of Section 742.300 and more fully characterize the nature and extent of VOC-impacted soils previously identified on-site and off-site. Soil borings will be advanced to approximate depths of 12-16 feet below grade. Soil samples will be field screened with a flame ionization detector (FID) and the sample exhibiting the highest FID reading will typically be selected for laboratory analysis of VOCs.

Based on subsurface geological characteristics and prior groundwater sampling activities explained in the Clayton Report, K&B does not believe a groundwater investigation is warranted, especially since the site specific hydraulic conductivity was determined to be 1.27 (10^{-8}) cm/s. K&B may re-sample existing wells if they are found suitable for sampling.

4.5 Equation R-14 / R-26 Modeling

K&B will utilize the fate and transport equations provided in TACO to predict theoretical future impacts resulting from contaminant migration and determine the extent of any soil and/or groundwater impacts in excess of the Tier 1 SROs and GROs protective of Class I groundwater. Based on the results of these activities, K&B will notify the property owners, if any, affected by the future theoretical groundwater impacts originating from Jay-Tee. Additional regulatory options available in TACO will be utilized as needed.

5.0 CONCLUSIONS

K&B has prepared this Remedial Objectives Report and Remedial Action Plan (ROR/RAP) in accordance with Sections 740.440, 740.445 & 740.450 for formal IEPA review and approval under a DRM-2 form (Appendix A). The ROR/RAP is intended to serve as a route to formal site closure for the Jay-Tee Screw Machine Co (Remedial Applicant). K&B has addressed the IEPA concerns related to the existence of an abandoned UST at the site and impacted soils that exceed the default saturation concentration (C_{sat}) for TCE. Based on a review of data prepared by previous consultants, K&B established VOCs as the appropriate contaminants-of-concern (COCs) at the Remediation Site.

K&B has demonstrated that the UST has been adequately closed in-place and that this potential source of TCE contamination has been removed. The UST was emptied, rinsed and filled with inert solids in 1988 and cannot practically be removed from beneath the building at this time. The removal of the UST is not necessary as the OSFM confirmed that the UST is already formally closed.

K&B collected site-specific soil data (f_{oc}, K) in order to determine whether a Tier 2 Evaluation would be allowable pursuant to Section 742.600(e). K&B then performed an Exposure Route Evaluation to determine whether the elimination of exposure pathways would be allowable at the Remediation Site. The results of this evaluation, described in Section 3.0 of this report, indicate that both a Tier 2 Evaluation and the elimination of exposure routes will be allowable at this site.

Therefore, since the Village of Melrose Park has an IEPA-approved ordinance and MOU in-place, K&B intends to eliminate the groundwater ingestion pathway on-site in accordance with Section 742.320. K&B then developed Tier 2 SROs for

industrial/commercial property use for the remaining ingestion and inhalation exposure pathways, described in Section 3.0 of this report, for IEPA review and approval.

In order to address the off-site soil contamination beneath the public alleyway immediately south of the remediation site, K&B intends to pursue a Highway Authority Agreement between the Remedial Applicant and the Village of Melrose Park to prohibit the use of groundwater beneath the alley and to require the asphalt pavement to remain in tact as an engineered barrier.

Additional soil sampling should be conducted on-site and off-site to more fully characterize the extent of previously identified VOC contamination and verify that the Tier 1 SROs will be met at the appropriate compliance point. K&B will perform Equation R-14 and R-26 modeling calculations to determine the potential future groundwater impacts resulting from the VOC-impacted soil managed in-place. Based on these results, additional TACO options will be utilized as necessary.

Upon IEPA approval, K&B will execute the appropriate remedial action activities necessary to complete a Remedial Action Completion Report (RACR) in accordance with Section 740.455.

6.0 REFERENCES

McCarrin, Michael T. 1999. *Site Investigation and Closure Report for the Site Remediation Program.* Clayton Environmental Consultants. Downers Grove, Illinois.

Illinois Pollution Control Board. 1997. *Site Remediation Program.* Title 35 Illinois Administrative Code Part 740. Springfield, Illinois.

Illinois Pollution Control Board. 1997. *Tiered Approach to Corrective Action Objectives.* Title 35 Illinois Administrative Code Part 742. Springfield, Illinois.

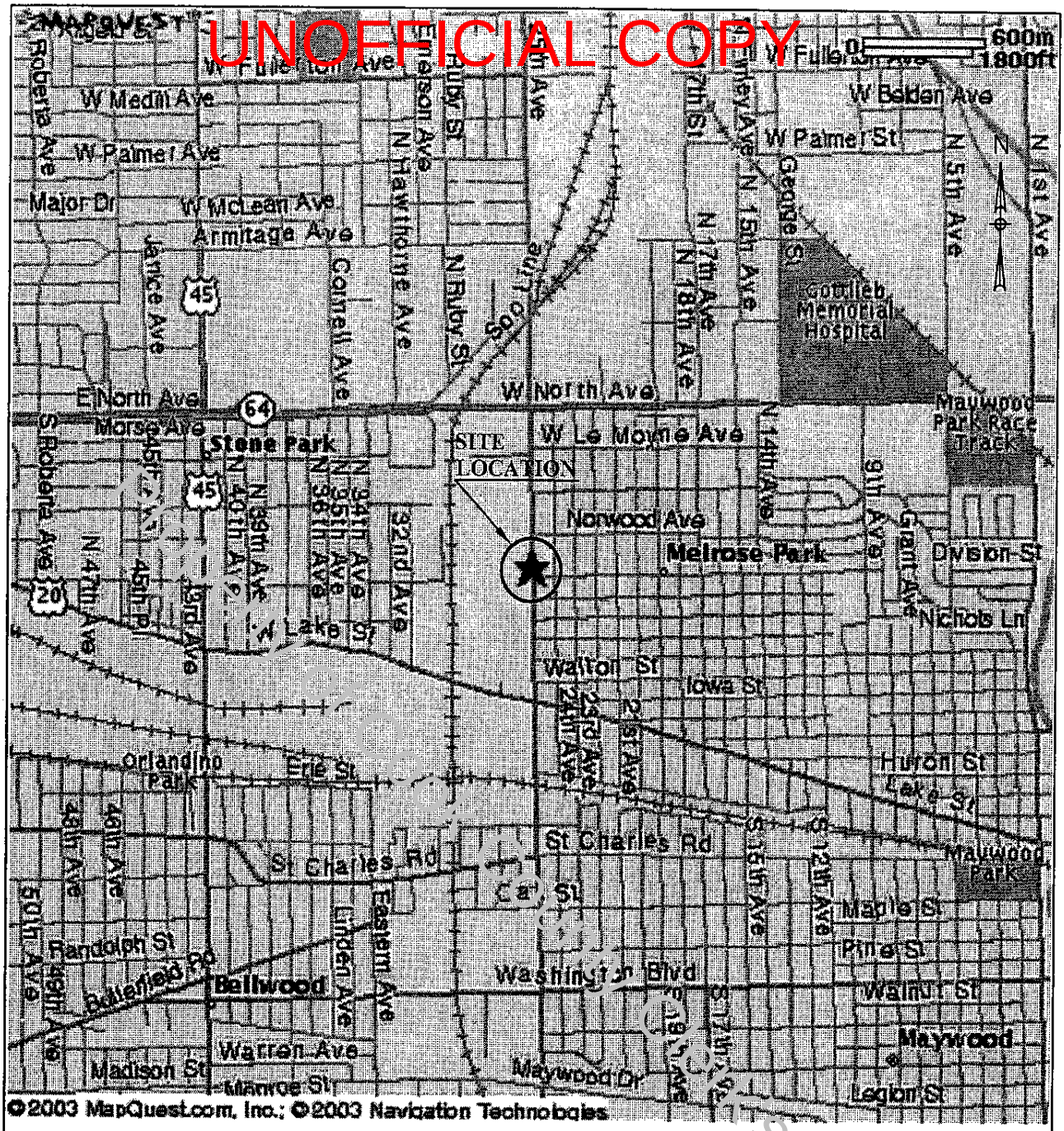


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FIGURE 1

TITLE: SITE LOCATION MAP
1515 North 25th Ave
MELROSE PARK, IL

DATE: 05/01/2003

TABLE 1

Historical Soil Analytical Results - VOCs

1515 N. 25th Avenue
Melrose Park, Illinois

Sample Location	AB-2	AB-4	B-2	B-3	TIER 1 SROs					
Sample Interval	7-9	7-9	9-11	11-13	Exposure Route-Specific Values for Soil				Soil Component of Groundwater Ingestion	
Sample Date	1992	1992	1992	1992	Industrial/Commercial		Construction Worker			
Analyte					Ingestion	Inhalation	Ingestion	Inhalation	Class I	Class II
1,1-Dichloroethane	2.3	<1,000	<37,000	<7,300	200,000,000	1,700,000	200,000,000	130,000	23,000	110,000
1,1-Dichloroethene	<0.5	<1,000	<37,000	<7,300	18,000,000	1,500,000	1,800,000	300,000	60	300
cis 1,2-Dichloroethene	**1,090**	**7,900**	--	--	20,000,000	1,200,000	20,000,000	1,200,000	400	1,100
trans 1,2-Dichloroethene	57.6	<1,000	<37,000	**18,000**	41,000,000	3,100,000	41,000,000	3,100,000	700	3,400
Tetrachloroethylene	4	**25,300**	<37,000	<7,300	110,000	20,000	2,400,000	28,000	60	300
1,1,1-Trichloroethane	<0.5	<1,000	<37,000	<7,300	--	1,200,000	--	1,200,000	2,000	9,600
Trichloroethylene	**763**	**1,200,000**	**1,200,000**	**160,000**	520,000	8,900	1,200,000	12,000	60	300
Vinyl Chloride	**1,040**	<1,000	<73,000	<15,000	7,900	1,100	170,000	1,100	10	70
Benzene	5.5	<1,000	<37,000	<7,300	100,000	1,600	2,300,000	2,200	30	170
Ethylbenzene	32	<1,000	<37,000	<7,300	200,000,000	400,000	20,000,000	58,000	13,000	19,000
Toluene	13.7	<1,000	<37,000	<7,300	410,000,000	650,000	410,000,000	42,000	12,000	29,000
Xylenes (total)	184	<1,000	<37,000	<7,300	1,000,000,000	320,000	410,000,000	320,000	150,000	150,000

NOTES
All values in µg/kg (ppb).
Bolded values exceed most stringent Tier 1 SRO.
Tier 1 SROs from 35 IAC 742, Appendix B, Table B.

TABLE 1

Historical Soil Analytical Results - VOCs

1515 N. 25th Avenue
Melrose Park, Illinois

Sample Location	B-4	B-5	B-7	B-8	TIER 1 SROs					
Sample Interval	5-7	4-6	7-9	2-4	Exposure Route-Specific Values for Soil				Soil Component of Groundwater Ingestion	
Sample Date	1992	1992	1992	1992	Industrial/Commercial		Construction Worker			
Analyte					Ingestion	Inhalation	Ingestion	Inhalation	Class I	Class II
1,1-Dichloroethane	<7,500	<1,500	<3,000	<31	200,000,000	1,700,000	200,000,000	1,[illegible],000	23,000	110,000
1,1-Dichloroethene	<7,500	<1,500	<3,000	<31	18,000,000	1,500,000	1,800,000	300,000	60	300
cis 1,2-Dichloroethene	--	--	--	--	20,000,000	1,200,000	20,000,000	1,200,000	400	1,100
trans 1,2-Dichloroethene	<7,500	**43,000**	<3,000	**740**	41,000,000	3,100,000	41,000,000	3,100,000	700	3,400
Tetrachloroethylene	<7,500	<1,500	<3,000	<31	110,000	20,000	2,400,000	28,000	60	300
1,1,1-Trichloroethane	<7,500	<1,500	<3,000	<31	--	1,200,000	--	1,200,000	2,000	9,600
Trichloroethylene	**210,000**	**66,000**	**70,000**	**240**	520,000	8,[illegible]	1,200,000	12,000	60	300
Vinyl Chloride	<15,000	<3,100	<6,000	<61	7,900	1,[illegible]	170,000	1,100	10	70
Benzene	<7,500	<1,500	<3,000	<31	100,000	1,600	2,300,000	2,200	30	170
Ethylbenzene	<7,500	<1,500	<3,000	<31	200,000,000	[illegible]00,000	20,000,000	58,000	13,000	19,000
Toluene	<7,500	<1,500	<3,000	<31	410,000,000	650,000	410,000,000	42,000	12,000	29,000
Xylenes (total)	<7,500	<1,500	<3,000	<31	1,000,000,000	320,000	410,000,000	320,000	150,000	150,000

NOTES
All values in µg/kg (ppb).
Bolded values exceed most stringent Tier 1 SRO.
Tier 1 SROs from 35 IAC 742, Appendix B, Table B.

TABLE 1

Historical Soil Analytical Results - VOCs

1515 N. 25th Avenue
Melrose Park, Illinois

Sample Location	C-1	C-2	C-2	C-3	C-3	C-4	C-4	TIER 1 SROs					
Sample Interval	6-8	8-10	14-16	6-8	14-16	8-10	16-18	Exposure Route-Specific Values for Soil				Soil Component of Groundwater Ingestion	
Sample Date	1998	1998	1998	1998	1998	1998	1998	Industrial/Commercial		Construction Worker			
Analyte								Ingestion	Inhalation	Ingestion	Inhalation	Class I	Class II
1,1-Dichloroethane	<10	<10	<10	<10	<10	<10	<10	200,000,000	1,700,000	200,000,000	130,000	23,000	110,000
1,1-Dichloroethene	<10	<10	<10	<10	<10	<10	<10	18,000,000	1,500,000	1,800,000	300,000	60	300
cis 1,2-Dichloroethene	70	<10	<10	**850**	<10	**21,000**	<10	20,000,000	1,200,000	20,000,000	1,200,000	400	1,100
trans 1,2-Dichloroethene	<10	<10	<10	10	<10	280	<10	41,000,000	3,100,000	41,000,000	3,100,000	700	3,400
Tetrachloroethylene	<10	<10	<10	**350**	<10	<10	<10	110,000	20,000	2,400,000	28,000	60	300
1,1,1-Trichloroethane	<10	<10	<10	10	<10	<10	<10	--	1,200,000	--	1,200,000	2,000	9,600
Trichloroethylene	**7,000**	<10	<10	**120,000**	<10	**220**	<10	520,000	8,900	1,200,000	12,000	60	300
Vinyl Chloride	<10	<10	<10	<10	<10	**820**	<10	7,900	1,100	170,000	1,100	10	70
Benzene	--	--	--	--	--	--	--	100,000	1,600	2,300,000	2,200	30	170
Ethylbenzene	--	--	--	--	--	--	--	200,000,000	400,000	20,000,000	58,000	13,000	19,000
Toluene	--	--	--	--	--	--	--	410,000,000	650,000	410,000,000	42,000	12,000	29,000
Xylenes (total)	--	--	--	--	--	--	--	1,000,000,000	320,000	410,000,000	320,000	150,000	150,000

NOTES
All values in µg/kg (ppb).
Bolded values exceed most stringent Tier 1 SRO.
Tier 1 SROs from 35 IAC 742, Appendix B, Table B.

TABLE 1

Historical Soil Analytical Results - VOCs

1515 N. 25th Avenue
Melrose Park, Illinois

Sample Location	C-5	C-5	C-6	C-7	C-7	TIER 1 SROs					
Sample Interval	8-10	14-16	8-10	8-10	16-18	Exposure Route-Specific Values for Soil				Soil Component of Groundwater Ingestion	
Sample Date	1998	1998	1998	1998	1998	Industrial/Commercial		Construction Worker			
Analyte						Ingestion	Inhalation	Ingestion	Inhalation	Class I	Class II
1,1-Dichloroethane	<10	<10	<10	<1,000,000	<10	200,000,000	1,700,000	200,000,000	130,000	23,000	110,000
1,1-Dichloroethene	<10	<10	<10	<1,000,000	<10	18,000,000	1,500,000	1,800,000	300,000	60	300
cis 1,2-Dichloroethene	**4,100**	<10	**430**	<1,000,000	<10	20,000,000	1,200,000	20,000,000	1,200,000	400	1,100
trans 1,2-Dichloroethene	100	<10	20	<1,000,000	<10	41,000,000	3,100,000	41,000,000	3,100,000	700	3,400
Tetrachloroethylene	<10	<10	<10	<1,000,000	<10	110,000	20,000	2,400,000	28,000	60	300
1,1,1-Trichloroethane	<10	<10	<10	<1,000,000	<10	--	1,200,000	--	1,200,000	2,000	9,600
Trichloroethylene	**140**	<10	**210**	**6,000,000**	<10	520,000	6,900	1,200,000	12,000	60	300
Vinyl Chloride	**760**	<10	**70**	<1,000,000	<10	7,900	1,100	170,000	1,100	10	70
Benzene	--	--	--	--	--	100,000	1,600	2,300,000	2,200	30	170
Ethylbenzene	--	--	--	--	--	200,000,000	400,000	20,000,000	58,000	13,000	19,000
Toluene	--	--	--	--	--	410,000,000	650,000	410,000,000	42,000	12,000	29,000
Xylenes (total)	--	--	--	--	--	1,000,000,000	320,000	410,000,000	320,000	150,000	150,000

NOTES
All values in µg/kg (ppb).
Bolded values exceed most stringent Tier 1 SRO.
Tier 1 SROs from 35 IAC 742, Appendix B, Table B.

Appendix A

DRM-2 Form / Professional Engineer Certification

Illinois Environmental Protection Agency
Bureau of Land
Remedial Project Management Section
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

FOR ILLINOIS EPA USE:
LOG NO. _____

Site Remediation Program Form (DRM-2)
(To Be Submitted with all Plans and Reports)

I. Site Identification:

Site Name: Jay-Tee Screw Machine Products Co.

Street Address: 1515 North 25th Avenue

City: Melrose Park Illinois Inventory I. D. Number: 0311865040

IEMA Incident Number: NA

II. Remediation Applicant:

Applicant's Name: Thomas Schweihs Company: Jay-Tee Screw Machine Products Co.

Street Address: 1515 North 25th Avenue

City: Melrose Park State: IL ZIP Code: 60160 Phone: 708-344-5835

I hereby request that the Illinois EPA review and evaluate the attached project documents in accordance with the terms and conditions of the Environmental Protection Act (415 ILCS 5), implementing regulations, and the review and evaluation services agreement.

Remediation Applicant's Signature: _____ Date: 6-3-03

III. Contact Person:

Contact's Name: Thomas A. Brecheisen Company: Kowalenko & Bilotti, Inc.

Street Address: 118 North Peoria; Suite 5N

City: Chicago State: IL ZIP Code: 60607 Phone: 312-852-3600

IV. Review & Evaluation Licensed Professional Engineer or Geologist ("RELPEG"), if applicable:

RELPEG's Name: _____ Company: _____

Street Address: _____

City: _____ State: _____ ZIP Code: _____ Phone: _____

Registration Number: _____ License Expiration Date: _____

All information submitted is available to the public except when specifically designated by the Remediation Applicant to be treated confidentially as a trade secret or secret process in accordance with the Illinois Compiled Statutes, Section 7(a) of the Environmental Protection Act, applicable Rules and Regulations of the Illinois Pollution Control Board and applicable Illinois EPA rules and guidelines. The Illinois EPA is authorized to require this information under Sections 415 ILCS 5/58 - 58.12 of the Environmental Protection Act and regulations promulgated thereunder. Disclosure of this information is required as a condition of participation in the Site Remediation Program. Failure to do so may prevent this form from being processed and could result in your plan(s) or report(s) being rejected. This form has been approved by the Forms Management Center.

V. Project Documents Being Submitted:

Document Title: ROR/RAP Date of Preparation of Plan or Report: June 2003

Prepared by: Kowalenko & Bilotti, Inc. Prepared for: MB Financial Bank

Type of Document Submitted:

- Site Investigation Report - Comprehensive
- Site Investigation Report - Focused
- [x] Remediation Objectives Report-Tier 1or 2
- Remediation Objectives Report-Tier 3
- [x] Remedial Action Plan
- Remedial Action Completion Report
- Sampling Plan
- Health and Safety Plan
- Community Relations Plan
- Risk Assessment
- Contaminant Fate & Transport Modeling
- Environmental Remediation Tax Credit - Budget Plan Review
- Other:

Document Title: Date of Preparation of Plan or Report:

Prepared by: Prepared for:

Type of Document Submitted:

- Site Investigation Report - Comprehensive
- Site Investigation Report - Focused
- Remediation Objectives Report-Tier 1or 2
- Remediation Objectives Report-Tier 3
- Remedial Action Plan
- Remedial Action Completion Report
- Sampling Plan
- Health and Safety Plan
- Community Relations Plan
- Risk Assessment
- Contaminant Fate & Transport Modeling
- Environmental Remediation Tax Credit - Budget Plan Review
- Other:

I. Professional Engineer's or Geologist's Seal or Stamp:

I attest that all site investigations or remedial activities that are the subject of this plan(s) or report(s) were performed under my direction, and this document and all attachments were prepared under my direction or reviewed by me, and to the best of my knowledge and belief, the work described in the plan and report has been designed or completed in accordance with the Illinois Environmental Protection Act (415 ILCS 5), 35 Ill. Adm. Code 740, and generally accepted engineering practices or principles of professional geology, and the information presented is accurate and complete.

Engineer or Geologist Name: Thomas A. Brecheisen

Professional Engineer's or Geologist's Seal or Stamp:

LICENSED PROFESSIONAL ENGINEER
THOMAS A. BRECHEISEN
062-055672
STATE OF ILLINOIS

Company: K&B, Inc. Phone: 312-853-0500

Registration Number: 062-055672

Signature: Thomas A. Brecheisen License Expiration Date: 11/30/2003

Note: The authority of a Licensed Professional Geologist to certify documents submitted to the Illinois Environmental Protection Agency for review and evaluation pursuant to Title XVII of the Environmental Protection Act is limited to Site Investigation Reports (415 ILCS 58.7(f), as amended by P.A. 92-0735, effective July 25, 2002). A Licensed Professional Geologist cannot certify Remediation Objectives Reports, Remedial Action Plans or Remedial Action Completion Reports.

Appendix B

OSFM Correspondence / Historical UST Abandonment Documents

Map ID
Direction
Distance
Distance (ft.)
Elevation | Site | MAP FINDINGS | Database(s) | EDR ID Number EPA ID Number

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

A1
Target
Property

JAY TEE SCREW MACHINE PRODUCT CO
1515 N 25TH AVE
MELROSE PARK, IL 60160

UST **U001143796**
N/A

Site 1 of 8 in cluster A

UST:
Facility ID: 2008290
Status: Closed
Owner Name: Jay Tee Screw Mach Prod
Owner Address: 1515 N 25Th Ave
Melrose Park, IL 60160
Contact: Schweihs Thomas E
Phone #: (312) 344-5835
Permit Number: Not reported
Permit Expires: Not reported
Tank Status: Abandoned in place
Tank Last Used: Not reported
Fee Owed: No
Tank Number: 1
Tank Capacity: 2000
Tank Age: 46
Tank Red Tag: No
Tank Substance: Hazardous Substance

A2
Target
Property

JAY-TEE SCREW MACHINE PRODUCTS CO
1515 N 25TH AVE
MELROSE PARK, IL 60160

RCRIS-SQG **1000139866**
FINDS **ILD005247101**

Site 2 of 8 in cluster A

RCRIS:
Owner: NAME NOT REPORTED
(312) 555-1212
EPA ID: ILD005247101
Contact: THOMAS SCHWEIHS
(312) 378-4550
Classification: Small Quantity Generator
Used Oil Recyc: No
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)
Toxic Chemical Release Inventory System (TRIS)

A3
Target
Property

JAY TEE SCREW MACHINE PRODUCTS INCORPORATED
1515 N. 25TH AVE.
MELROSE PARK, IL 60160

FINDS **1006078344**
110002124905

Site 3 of 8 in cluster A

300 West Washington Street, Suite 1314
Chicago, Illinois 60606
U.S.A.

312-853-0500
fax 312-853-0311
www.kbconsulting.net

KOWALENKO & BILOTTI, INC.

TALENT • LEADERSHIP • CREATIVITY

December 19, 2002

OFFICE OF THE
STATE FIRE MARSHAL

JAN 02 2003

CR#1899
500

Office of the Illinois State Fire Marshal
Division of Petroleum and Chemical Safety
1035 Stevenson Drive
Springfield, Il 62703

Attn: Cathy Bormida

Dear Ms. Bormida:

Kowalenko & Bilotti, Inc. (K&B), is conducting an environmental assessment for a commercial site on West Fitch Avenue, Chicago, Cook County, Illinois.

2008290

The address of concern are: **1515 N 25th Ave, Melrose Park, IL 60160**

Under the Freedom of Information Act we request that you check **all agency files**, including **all closed files**, for records of underground or above ground storage tanks, active and inactive, removed or repaired, for these addresses.

Please send all information to my attention at 118 N Peoria Suite N Chicago, IL, 60607. Thank you for your prompt attention in this matter. If you have any questions or comments, please call me at (312) 853-0500. Enclosed is a check for $5.00.

Sincerely,

Michael Croke
Environmental Planner

Encl.

(708) 344-5835
(312) 378-4550 -4551
Fax No.: (708) 344-1575

Jay-Tee SCREW MACHINE PRODUCTS CO. inc.

1515 NORTH 25th AVENUE • MELROSE PARK, ILLINOIS 60160-1893

July 24, 1992

Office of the Illinois
State Fire Marshal
Division of Petroleum and
Chemical Safety
1035 Stevenson Drive
Springfield, Il. 62703-4259
Att: Mr James McCaslin

Dear Jim:

I appreciate you taking time out of your busy schedule to review our file and send us the necessary papers needed to bring our file in your Springfield office up-to-date. In our phone conversation back in June you had indicated that the 7530 form for the abandoning in place of our underground tank was not officially received by the State Fire Marshal's Office and that if I would take the time to fill out this form the file could be updated properly. At that time I had also mentioned that this was a letter written to the State Fire Marshal's Office requesting permission to abandon our tank in place and that this letter was written by a qualified EPA engineer. I am enclosing a copy of this letter and hope you would be able to use it to verify that a mistake must have been made or possibly the paper work was lost that was needed to up-date our file back in 1988.

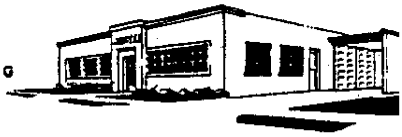
If there is any further information needed from Jay-Tee on the updating of our underground tank file I would be happy to cooperate in any way.

I appreciate the time you have given me so far and realize that matters such as this usually do not go to your level. Thanks again for your help.

Sincerely yours,

Thomas E. Schweihs

Thomas E. Schweihs
TES/fp



IL Notification for Underground Storage Tanks

- A separate form must be used for each site.
- If you have more than five tanks, photocopy pages 1-5 and attach to this notification form.
- Please type, or print in ink; the signature under "certification" (section IX) must be signed in Ink.

OFFICE USE ONLY

ID NUMBER 2-008290

DATE RECEIVED
RECEIVED
JUL 28 1992
DIV. OF PETROLEUM &

Facility I.D. # (if known) 03160000037 Owner I.D. # (if known) ILD051937068

TYPE OF NOTIFICATION

☐ New Facility ☒ Amended (Changes/Corrections/Additional Tanks) Mark all that apply:

_____ Owner Address Change (this facility only)
_____ Owner Address Change (all facilities owned)
_____ New Owner
_____ Tank(s) Removed (Permit # _____)
_____ Tanks Relined (Permit # _____)
_____ Tanks Installed (Permit # _____)
_____ Tanks Upgraded/Repaired (Permit # _____)
XXX Abandonment Notice (Permit # _____)
_____ Other _____

I. Ownership of Tank(s)

Owner Name (Corp., Individual., Public Agency or other Entity)
Jay-Dee Screw Machine Prod., Co.

Mailing Address
1515 N. 25th Ave.

City: Melrose Park | State: Il. | Zip: 60160

County: Cook

Contact Name: Thomas E. Schweihs | (Area Code) Phone: (708) 344-5835

II. Location of Tank(s) (if same as Section I, Mark box) ☐

Facility Name or Company Site Identifier, as applicable

Street Address or State Road, as applicable (exact address)

City | State | Zip

County

Contact Name | (Area Code) Phone

III. TYPE OF OWNERSHIP (mark all that apply)

☐ Current Owner of Tanks
Date Purchased 9 / / 1986
☐ Former Owner
☐ Ownership Uncertain _____
☐ Other _____

IV. TYPE OF FACILITY

Type of Facility: (Circle correct code)

A. Service Station
B. Bulk Plant
C. Petroleum Distributor
D. Convenience Store
E. Auto Dealer
F. Commercial/Retail
G. Industrial/Manufacturing
H. Private Institution
I. Residence (Non-Farm)
J. Farm
K. Airport
L. Marina
M. City/Town
N. County
O. State
P. Federal (Military)
Q. Federal (Non-Military)
R. School District
S. Port District
T. Utility District
U. Fire Dept.
V. Other Special Service Districts
W. Other _____ (Please Specify)

V. Description of Underground Storage Tanks (Complete entire column for each tank)

Tank Identification Number	Tank No. 1	Tank No.	Tank No.	Tank No.	Tank No.
1. Status of Tanks					
Currently in use	☐	☐	☐	☐	☐
Temporarily out of use (Section 2 must be completed)	☐	☐	☐	☐	☐
Permanently out of use (Section 2 must be completed)	☐	☐	☐	☐	☐
Removed (Section 3 must be completed)	☐	☐	☐	☐	☐
Abandoned in place (Section 4 must be completed)	XXX	☐	☐	☐	☐
2. Tanks Permanently & Temporarily Out of Use Estimated date last used	/ /	/ /	/ /	/ /	/ /
3. Tanks Removed	/ /	/ /	/ /	/ /	/ /
4. Tank Installed Date product placed in tank	1952 Unknown	/ /	/ /	/ /	/ /
5. Estimated Total Capacity (gallons)	2000				
6. Substances Currently or Last Stored:					
Petroleum					
Diesel	☐	☐	☐	☐	☐
Kerosene	XX	☐	☐	☐	☐
Gasoline	☐	☐	☐	☐	☐
Used oil	XX	☐	☐	☐	☐
Other (Please specify)					
Petroleum Use (if applicable):					
Heating oil (consumptive use on premises)	☐	☐	☐	☐	☐
Back-up generator	☐	☐	☐	☐	☐
Other (please specify)					
Hazardous Substance:					
Name of principal CERCLA substance	Spent Trichlorethlene				
Chemical Abstract Service (CAS No)					

VI. Description of Underground Storage Tanks (Complete entire column for each tank)

Tank Identification Number	Tank No.___	Tank No.___	Tank No.___	Tank No.___	Tank No.___
1. Material of Construction (mark all that apply)					
Asphalt coated or bare steel	☐	☐	☐	☐	☐
Cathodically protected steel	☐	☐	☐	☐	☐
Dielectric coated steel	☐	☐	☐	☐	☐
Composite (steel with fiberglass)	☐	☐	☐	☐	☐
Fiberglass reinforced plastic	☐	☐	☐	☐	☐
Lined interior	☐	☐	☐	☐	☐
Double-walled	☐	☐	☐	☐	☐
Secondary containment	☐	☐	☐	☐	☐
Steel STI-P3	XX	☐	☐	☐	☐
Other (please specify)	_____	_____	_____	_____	_____
2. Piping Materials (mark all that apply)					
Bare steel	☐	☐	☐	☐	☐
Galvanized steel	☐	☐	☐	☐	☐
Fiberglass reinforced plastic	☐	☐	☐	☐	☐
Cathodically protected	☐	☐	☐	☐	☐
Double-walled	☐	☐	☐	☐	☐
Secondary containment	☐	☐	☐	☐	☐
Dielectric coating	☐	☐	☐	☐	☐
Other (please specify)	Unknown	_____	_____	_____	_____
3. Piping Type (mark all that apply)					
European suction	☐	☐	☐	☐	☐
American suction	☐	☐	☐	☐	☐
Pressure	☐	☐	☐	☐	☐
Gravity feed	☐	☐	☐	☐	☐
Other (please specify)	Unknown _____	_____	_____	_____	_____

Tank Identification Number	Tank No. 1		Tank No. ___		Tank No. ___		Tank No. ___		Tank No. ___	
4. Release Detection (Mark all that apply)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Manual tank gauging	☐		☐		☐		☐		☐	
Inventory controls	☐		☐		☐		☐		☐	
Automatic tank gauging	☐		☐		☐		☐		☐	
Vapor monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Groundwater monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Interstitial monitoring double-walled tank/piping	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Interstitial monitoring /secondary containment	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Tank tightness testing	☐		☐		☐		☐		☐	
Automatic line leak detector		☐		☐		☐		☐		☐
Line tightness testing		☐		☐		☐		☐		☐
Automatic shut-off device		☐		☐		☐		☐		☐
Continuous alarm system		☐		☐		☐		☐		☐
No requirements (european suction)		☐		☐		☐		☐		☐
Other (please specify)	None									
5. Corrosion Protection (mark all that apply)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Cathodic protection	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Impressed current	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Secondary containment	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Exterior coating	XX	XX	☐	☐	☐	☐	☐	☐	☐	☐
Fiberglass reinforced plastic	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Double-walled	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Interior lining	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Other (please specify)										
6. Spill & Overfill Prevention (Mark all that apply)										
Overfill device	☐		☐		☐		☐		☐	
Automatic shut-off	☐		☐		☐		☐		☐	
Overfill Alarm	☐		☐		☐		☐		☐	
Ball float valve	☐		☐		☐		☐		☐	
Spill containment device	☐		☐		☐		☐		☐	
Other (Please specify)	None									

VII. Certification of Compliance (Complete for all new, upgraded and relined tanks at this location)

Installation (mark all that apply)					
Installer certified by tank and piping manufacturers	☐	☐	☐	☐	☐
Installer certified or licensed by implementing agency	☐	☐	☐	☐	☐
Installer registered by implementing agency	☐	☐	☐	☐	☐
Installer is the owner of the tank(s)	☐	☐	☐	☐	☐
Installation inspected by a registered engineer	☐	☐	☐	☐	☐
Installation inspected & approved by implementing agency	☐	☐	☐	☐	☐
Manufacturer's installation checklists have been completed	☐	☐	☐	☐	☐
Another method allowed by state agency (please specify)	N/A				

OATH: I certify the information that is provided in section VII is true to the best of my knowledge, and certify that the installation was performed in accordance with all applicable state and federal laws and regulations. **(THIS SECTION MAY ONLY BE COMPLETED BY THE CONTRACTOR. SEPARATE OATH MUST BE SUBMITTED FOR EACH ACTIVITY PERFORMED BY DIFFERENT CONTRACTOR.)**

Tank No. N/A Permit No. _____

Contractor: _____ (Name) _____ (Signature (must be original)) _____ (Date)

_____ (Position) _____ (Company)

VIII. Financial Responsibility

Mark all that apply:

☐ Self-Insurance ☐ Guarantee ☐ Certificate of Deposit

☐ Commercial Insurance ☐ Surety Bond ☐ Trust Fund

☐ Risk Retention Group ☐ Letter of Credit ☐ Other Method Allowed

(please specify) N/A

IX. Certification (Read and sign after completing all sections)

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

Thomas E. Schweihs	Thomas E. Schweihs	July 24, 1992
Name and official title of owner or owner's authorized representative (print)	Signature (must be original)	Date Signed

Jay-Tee SCREW MACHINE PRODUCTS CO. inc.

(312) 344-5835
(312) 378-4550 - 4551
Fax No.: (312) 344-1575

1515 NORTH 25th AVENUE • MELROSE PARK, ILLINOIS 60160

February 16, 1988

Mr. Ed Brezinski
State Fire Marshall's Office
State of Illinois Building
100 West Randolph Street
Suite 11-800
Chicago, IL 60012

Dear Mr. Brezinski:

This will confirm the telephone discussion with our Environmental Consultant, Mr. Philip J. Mole, as it concerns our Underground Storage Tank (U.S.T.) which is located under the concrete floor of the Screw Machine Production Area.

As discussed, please be advised that this tank has not been in use for several years. All residuals of fuel oil have been evacuated. The company does not intend to use this tank in the future and respectfully requests that we are permitted to take this tank out of service and "Abandon in Place". We would proceed under the following program:

1. Check the integrity of the U.S.T. by Hydrostatic Testing.
2. Cap and/or remove all pipes from the U.S.T., except the vent line attached.
3. Fill the tank with a harmless chemically inactive solid, we are considering Bank or Torpedo Sand.

Due to the fact that the removal of the U.S.T. from beneath our building would impose an economic and financial hardship on our business, and would also necessitate the curtailment of our screw machine business, we would appreciate your approval of this request at your earliest convenience.

Thank you for your consideration in this matter. Should you have any

questions, please feel free to contact Mr. Mole, at 452-7701.

Sincerely,

Thomas E. Schweihs
President

TES/kmf

cc: Philip J. Mole, P.E.
Sun Eco Systems
55-Vail Colony
Fox Lake, IL 60020

INDUSTRIAL DISPOSAL

June 2, 1989

Mr. Thomas Schweihs
Jay-Tee Screw Products Co.
1515 North 25th Avenue
Melrose Park, Illinois 60160

Dear Mr. Schweihs:

Mr. Frank Inc. is pleased to respond to your request for a letter confirming that we have cleaned your waste oil and 1, 1, 1, Trichloroethane underground storage tank to your company's specifications and approval.

On June 15, 1988, Mr. Frank Inc. triple rinsed your underground storage tank using Atlas Chemical Truck Wash Soap and hot water pressure wash. After each rinse, the residue and wash was vacuumed into our tank truck, and on the same day delivered to SCA Chemical Services at 11700 South Stony Island Avenue, Chicago, Illinois, under permit number 090004 for incineration.

On July 7, 1988, with the approval of Jay-Tee Screw Products Company and Mr. Thomas Schweihs, President who received approval from the Office of the Illinois State Fire Marshal, Mr. Frank Inc., backfilled the underground storage tank with pea gravel concrete.

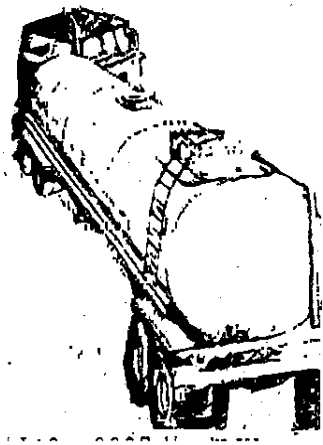
If you have any questions or need additional information, please feel free to call.

Sincerely,

Terrence J. O'Brien

Terrence J. O'Brien
Sales Representative

tob/mgm



INDUSTRIAL DISPOSAL
MR. FRANK INC.

594-5515

201 West 155th Street • South Holland, Illinois 60473 • (312)596-3377 • (312)785-7190
PLEASE REMIT TO: P.O. BOX 97430, CHICAGO, IL. 60678-7430

SOLD TO
JAY/TEE SCREW MACHINE PRODUCTS CO.
1515 N. 25TH AV
MELROSE PARK, IL. 60160

INVOICE 44212
INVOICE DATE 6/21/88
WORK COMPLETED 6/15/88

YOUR ORDER NO.	SALESMAN	TERMS
	010 N	NET 30 DAYS FROM INVOICE DATE

DESCRIPTION		
CLEANED UNDERGROUND TANK AND DISPOSED OF 1000 GALLONS OF WATER, OIL AND 1,1,1, TRICHLOR		
DISPOSAL	4560# @ $.39/#	1778.40
CHICAGO TAX	1000 GAL. @ $.025/GAL.	25.00
TRANSPORTATION		450.00
VACUUM TANKER PUMPING		640.00
CLEANING LABOR		1660.00
LABOR AND BACKFILLING		2800.00
ANALYTICAL & PERMITTING		300.00
		$7653.40

O/C #4105 6/28

RECEIVED
JUN 22 1988
JAY TEE SCREW MACHINE PRODUCTS CO.

TICKETS 12305 12132
MANIFEST 2043134

FINANCE CHARGE OF 1-1/2% PER MONTH, ANNUAL PERCENTAGE RATE OF 18%, CHARGED ON ALL PAST DUE ACCOUNTS

TOTAL $7653.40

EPA ID #ILD000672121
ILL. ID #0316000058

SCA CHEMICAL SERVICES

CERTIFICATE No 017583

Certificate of Destruction

SCA Chemical Services Inc. has incinerated waste received from Jay Tee Screw Mach. Prod. as identified on manifest number IL2043134 at its Chicago Incineration facility and hereby certifies such destruction as of this 23rd day of June 198 8.

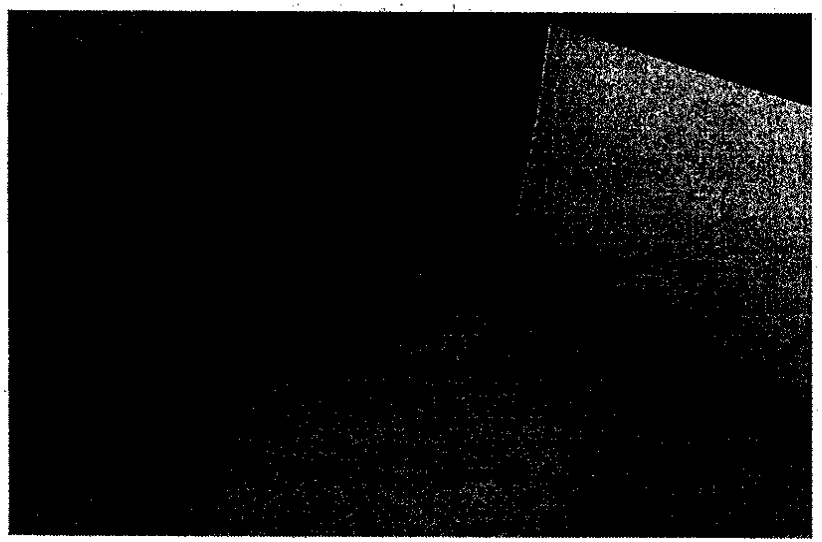
Jay Tee Screw Mach. Prod
Generator
1515 No. 25th Ave.
Melrose Park, Il 60160
Thomas Schweihs
Contact

By Jose Lucue
Jose Lucue
Title Operations Coordinator

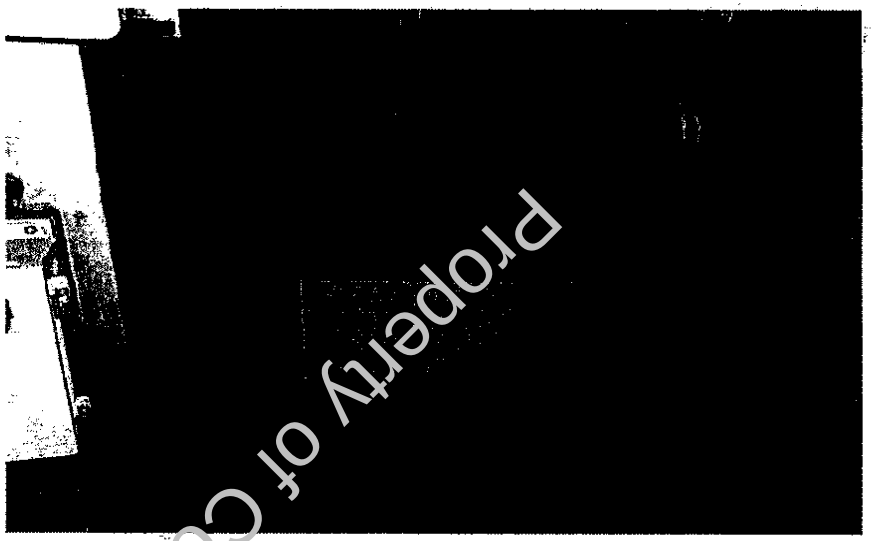
88-1521

Appendix C

Photographs / Documentation of Impracticality of UST Removal

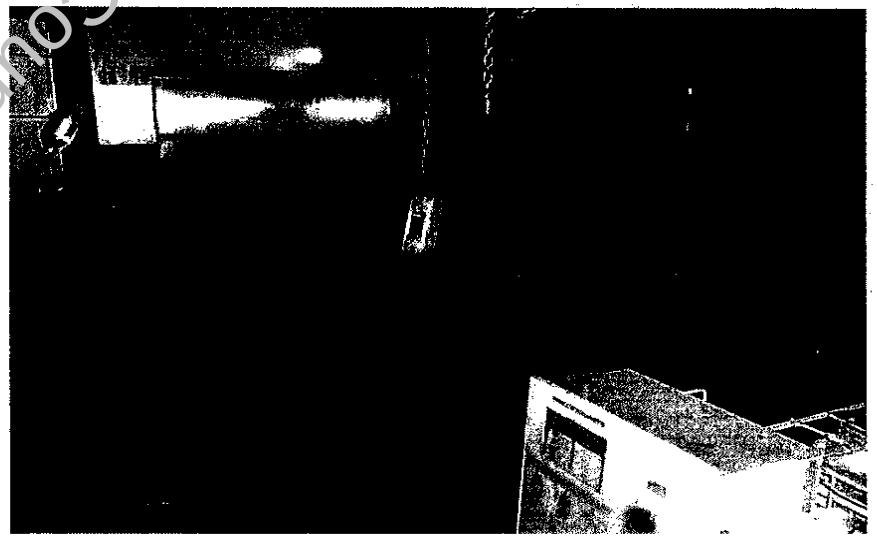


View of former fill port on eastern portion of abandoned UST.

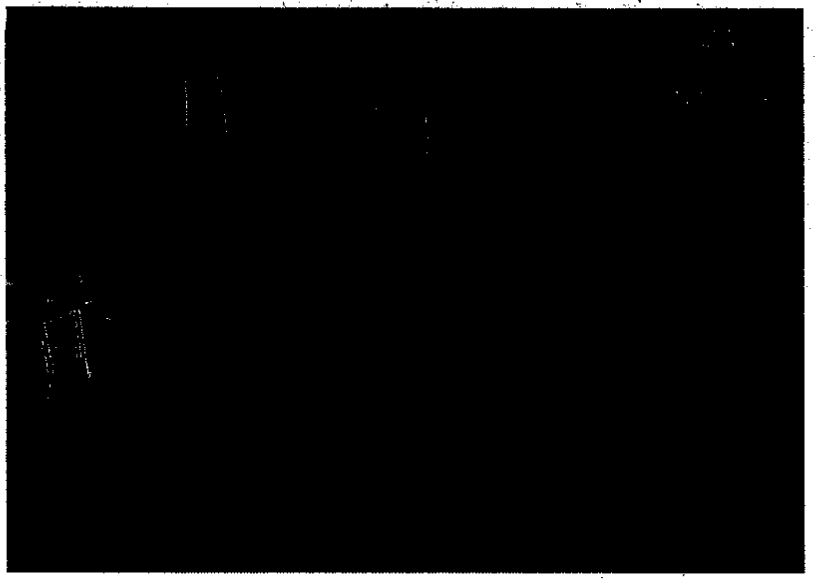


View of equipment and load bearing wall overlying eastern portion of abandoned UST.

View of load bearing wall at the ceiling, which overlies the abandoned UST.



Looking south at equipment and load bearing wall overlying eastern portion of abandoned UST.



Looking south at equipment and the load bearing wall overlying the western portion of the abandoned UST.

View of load supporting column at the top of the wall overlying the abandoned UST.

Advancement of RAP-1.

Advancement of RAP-1.

RW COLLINS CO.

7225 W. 66th Street • Chicago, Illinois 60638

April 24, 2003

Mr. Thomas Brecheisen
Kowalenko & Bilotti, Inc.
118 N. Peoria Street, Suite 5 North
Chicago, IL 60607

Re: 1515 N. 25th Avenue
Melrose Park, IL

Dear Mr. Brecheisen:

Thank you for your interest in the environmental contracting services of R.W. Collins Company. I am writing to follow up on your request for a cost proposal to remove an underground storage at the above referenced location.

After completion of a site visit to observe the location of the tank and general site conditions, RW Collins Company has determined that removal of the 3500 gallon capacity underground storage tank located on the inside of the building is not feasible for the following reasons:

1. The tank appears to be under an interior wall which may be load bearing.
2. There is no overhead door access into the building to allow sufficient access for the excavator equipment required to remove a 3500 gallon tank.
3. There is not adequate overhead clearance for equipment to work inside of the building even if an equipment access were made available to us.

Under Subpart B of 41 Illinois Administrative Code Part 170, (Section 170.670 d.), the Illinois Office of State Fire Marshall shall grant a waiver of the tank removal requirement for a tank, allowing the vessel to be abandoned in place, where it would be infeasible to remove the UST due to loss of structural support or insufficient access is available to attempt a removal. It is our opinion that the above referenced tank would meet the OSFM criterion for obtaining an abandon in place waiver.

Consequently, RW Collins Company has forwarded to your attention a cost proposal to properly abandon in place the 3500 gallon underground storage tank, including obtaining all required state and local permits. If you have any questions regarding our procedures or pricing, please contact me at our offices at your convenience.

Again, thank you for your interest in our company, and I look forward to working with you on this project in the near future.

Respectfully,

Thomas M. Cook, CHMM
R.W. Collins Company

Enclosure

Phone: (708) 458-6868 Fax: (708) 458-6870 e-mail: rwcollins@msn.com

Appendix D

Soil Boring Log / Soil Analytical Report

FIELD LOG - SOIL BOREHOLE

SITE NAME AND LOCATION: **Jay-Tee Screw Machine Products Co.** 1515 N. 25th Avenue Melrose Park, Illinois	DRILLING METHOD: GEOPROBE	BORING #: RAP-1	SHEET 1 OF 1
	SAMPLING METHOD: MACROCORE	DRILLING TIMES	
	WATER LEVEL	START 10:30	FINISH 11:00
		DRILLING DATES	
DATUM / ELEVATION		START 4-3-03	FINISH 4-3-03

DEPTH (FEET)	SAMPLE	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	PID READING	DEPTH IN FEET FROM	DEPTH IN FEET TO	DESCRIPTION OF OPERATION AND REMARKS
1		Fill underlain by brown silty clay with Trace gravel Firm Moist				
2			0.0	0	4	NO VISUAL EVIDENCE OF CONTAMINATION
3						
4						
5		Brown silty clay with trace gravel Stiff Moist				
6			0.0	4	8	
7						
8						
9		Gray silty clay Stiff Moist				
10			NA	8	12	
11						
12		EOB at 12'				

STAT Analysis Corporation
2201 West Campbell Park Drive Chicago, IL 60612-3547 312.733.0551 Fax:312.733.2386
e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0

April 14, 2003

Tom Brecheisem
Kowalenko & Bilotti, Inc.
300 W. Washington
Suite 601
Chicago, IL 60606
Telephone: (312) 640-0148
Fax: (312) 853-0311

RE: 03 EPRA 009, Jay-Tee Siren STAT Project No: 0304028

Dear Tom Brecheisem:

STAT Analysis received 3 samples for the referenced project on 4/3/2003. The analytical results are presented in the following report.

All analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except where noted in the Case Narrative.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

Craig Chawla
Project Manager

STAT Analysis Corporation

Date: April 14, 2003

Client: Kowalenko & Bilotti, Inc.
Project: 03 EPRA 009, Jay-Tee Siren
Lab Order: 0304028

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0304028-001A	RAP-1 (2-4)		4/3/2003	4/3/2003
0304028-002A	RAP-1 (4-8)		4/3/2003	4/3/2003
0304028-003A	RAP-1 (8-12)		4/3/2003	4/3/2003

STAT Analysis Corporation
2201 West Campbell Park Drive Chicago, IL 60612-3547
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATanalysis.com

NVLAP

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

Date Reported: May 02, 2003
Date Printed: May 02, 2003

Client: Kowalenko & Bilotti, Inc.
Project: 03 EPRA 009, Jay-Tee Siren **Lab Order:** 0304028

Lab ID: 0304028-001 **Collection Date:** 4/3/2003
Client Sample ID: RAP-1 (2-4) **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
Organic Carbon Content	**D2974**			Prep Date:		Analyst: **PMS**
Fractional Organic Carbon	3.81	0.01		wt%	1	4/7/2003

Lab ID: 0304028-002 **Collection Date:** 4/3/2003
Client Sample ID: RAP-1 (4-8) **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
Organic Carbon Content	**D2974**			Prep Date:		Analyst: **PMS**
Fractional Organic Carbon	5.96	0.01		wt%	1	4/7/2003
pH (25 °C)	**SW9045C**			Prep Date: **5/1/2003**		Analyst: **RAW**
pH	8.5		H	pH Units	1	5/1/2003

Lab ID: 0304028-003 **Collection Date:** 4/3/2003
Client Sample ID: RAP-1 (8-12) **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
Hydraulic Conductivity	**D5084**			Prep Date:		Analyst: **SUB**
Hydraulic Conductivity	1.27 x 10-8			cm/s	1	4/8/2003

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

STAT Analysis Corporation
2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0

CHAIN OF CUSTODY RECORD

Nº: 804331 Page: 1 of 1

Company: Kovalenko & Bilotti, Inc.
Project Number: 03 EPRA 009 Client Tracking No.:
Project Name: Jay-Tee Screw
Location/Address: 1515 N. 25th Ave
Sampler(s): Tom Brechteisen
Report To: Tom Brechteisen Phone: 312.853.0500
QC Level: 1 2 3 4 Fax: 312.853.0311
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other:

P.O. No.: 03EPRA009
Quote No.:

Turn Around: Std.
Results Needed: am pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	T.O.C.	Hydraulic Conductivity	Remarks	Lab No.:
RAP-1 (2-4)	4-3-03		S	✓		A	1	✓			001
RAP-1 (4-8)	4-3-03		S	✓		A	1	✓			002
RAP-1 (8-12)	4-3-03		S	✓		A	1		✓		003

Relinquished by: (Signature)	Thomas A. Brechteisen	Date Time: 4-3-03
Received by: (Signature)	STAT Courier	Date Time: 4-3-03 5
Relinquished by: (Signature)	STAT Courier	Date Time: 4-3-03 8
Received for lab by: (Signature)	[redacted]	Date Time: 4/3/03 1845
Relinquished by: (Signature)		Date Time:

Laboratory Use:

Cooler OK	Yes	✓	No	
Samples Leaking	Yes		No	✓
Refrigerated (Temp 0 to 4°C)	Yes	✓	No	
Sample Labels Match Sample ID	Yes	✓	No	

Sample Verification:

Work Order No.: 0304028

Preservation Code:
A None B HNO3 C NaOH
D H2SO4 E HCl F 5035 Encore

STAT Analysis Corporation

Sample Receipt Checklist

Client Name **K&B**

Date and Time Received: **04/03/2003**

Work Order Numbe **0304028**

Received by CDF

Checklist completed b _____ Date 4/3/03

Reviewed by AJS Initials 4/4/03 Date

Matrix

Carrier name STAT Analysis

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature On Ice °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☒	Yes ☐	No ☐
Water - Samples properly preserved/ pH checked?	Yes ☐	No ☑	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Appendix E

Site-Specific C_{sat} / Tier 2 SRO Calculations

Illinois Environmental Protection Agency
Bureau of Land

Groundwater Ordinances Reviewed for Use As Environmental Institutional Controls

Municipality	County	Review Completion Date	Division of Legal Counsel Ref #	Citation	Ordinance	Comments
Melrose Park	Cook	5/22/2000	00050801		321	Ordinance approved subject to MOU. MOU completed on 5/22/00.

GWOrdinance | Home | State of Illinois | US EPA | Contact IEPA | Privacy | Site Map | Search

Datasheet E: Soil Saturation Limits

Chemical	Constituent Properties: Solubility mg/L	Kd (Surface) cm³/g	Kd (Subsurface) cm³/g	Henry's Law Constant (H') (dimensionless)	Organic Carbon Partition Coefficient (Koc)	Saturation Limits: Csat (Surface Soils) mg/kg	Csat (Subsurface Soils) mg/kg
Benzene	1.75E+003	2.244	3.510	2.28E-001	5.89E+001	4,176.64	6,527.85
Dichloroethane, 1,1-	5.06E+003	1.204	1.883	2.30E-001	3.16E+001	6,815.28	10,642.66
Tetrachloroethylene	2.00E+002	5.905	9.238	7.54E-001	1.55E+002	1,229.25	1,900.67
Trichloroethylene	1.10E+003	6.325	9.894	4.22E-001	1.66E+002	7,153.71	11,143.19
Vinyl chloride	2.76E+003	0.709	1.109	1.11E+000	1.86E+001	2,803.77	3,877.14

Initial Cleanup Objectives - SSL Procedure - Industrial/Commercial Exposure Scenario

This report presents the initial cleanup objectives (CUO) for the constituents at the site as determined by the Soil Screening (SSL) procedure. If the Mixture Rule is applicable, these initial Cleanup Objectives may be modified according to the procedures set forth in 35 IAC 740.805. All cleanup objectives are in mg/kg.

Constituent	Ingestion		Inhalation	
	CUO	Comments	CUO	Comments
Tetrachloroethylene	110.06	Based on carcinogenicity	20.45	Inhalation of Volatiles: carcinogenic effects
Trichloroethylene	520.29	Based on carcinogenicity	8.92	Inhalation of Volatiles: carcinogenic effects
Dichloroethane, 1,1-	1,004.07	Based on carcinogenicity	7.05	Inhalation of Volatiles: carcinogenic effects
Vinyl chloride	7.95	Based on carcinogenicity	1.10	Inhalation of Volatiles: carcinogenic effects
Benzene	104.36	Based on carcinogenicity	1.53	Inhalation of Volatiles: carcinogenic effects
Total CUO Concentrations	**1,746.43**		**39.05**	

Datasheet SSL-I: Ingestion of Carcinogenic Contaminants

Datasheet SSL-I is to be used to propose soil cleanup objectives for the ingestion of carcinogens exposure route calculated by equations in Appendix C, Table A of TACO: Equation S2 (residential scenario) and Equation S3 (industrial/commercial and construction worker scenarios).

For industrial/commercial properties, soil cleanup objectives for both the industrial/commercial scenario and the construction worker scenario must be calculated. Therefore, two datasheets must be submitted; one for the industrial/commercial scenario and one for the construction worker scenario.

Land Use Scenario: **Industrial/Commercial**

Engineered Barrier	YES	NO	Institutional Control	YES	NO
TR (Unitless)	0.000001		BW (kg)	70	
ATc (yr)	70		ED (yr)	25	
EF (d/yr)	250		IRsoil (mg/d)	50	
IFsoil-adj (mg-yr/kg-d)	Not Applicable		SFo (1/mg/kg-d)	See Below	

Toxicological Properties

Chemical Name	Sfo 1/(mg/kg-d)	Soil Cleanup Objective (mg/kg)
Benzene	0.0550	104.058
Dichloroethane, 1,1-	0.0057	1,004.070
Tetrachloroethylene	0.0520	110.062
Trichloroethylene	0.0110	520.291
Vinyl chloride	0.7200	7.949

Datasheet SSL-III(a): Inhalation of Carcinogenic Volatile Contaminants for Commercial/Industrial Scenario

Datasheet SSL-III(a) is to be used to propose soil cleanup objectives for the inhalation of volatile carcinogens exposure route calculated by the equation in Appendix C, Table A of TACO: Equation S6 (residential and commercial/industrial scenarios). Since the values(s) listed in Datasheet SSL-VI are used in this evaluation, this datasheet must also be submitted.

For industrial/commercial properties, soil cleanup objectives for both the industrial/commercial scenario and the construction worker scenario must be calculated. Therefore, two datasheets must be submitted. Therefore, Datasheets SSL-III(a) and SSL-III(b) must be submitted.

Land Use Scenario: **Commercial/Industrial**

Engineered Barrier	YES	NO	Institutional Control	YES	NO
TR (Unitless)	0.000001		EF (d/yr)	250	
ATc (yr)	70		ED (yr)	25	
URF 1/(µg/m³)*	See Below		VF (m³/kg)**	See Below	

* Toxicological Properties: See Datasheet D

** VF values reported on Datasheet SSL-VI(a)

Chemical Name	URF 1/(µg/m³)	VF (m³/kg)	Soil Cleanup Objective (mg/kg)
Benzene	0.0000083	3,405.93	1.530
Dichloroethane, 1,1-	0.0000016	2,757.57	7.046
Tetrachloroethylene	0.0000006	2,901.12	20.448
Trichloroethylene	0.0000017	3,708.44	8.918
Vinyl chloride	0.0000044	1,178.64	1.095

Initial Cleanup Objectives - SSL Procedure - Construction Worker Exposure Scenario

This report presents the initial cleanup objectives (CUO) for the constituents at the site as determined by the Soil Screening (SSL) procedure. If the Mixture Rule is applicable these initial Cleanup Objectives may be modified according to the procedures set forth in 35 IAC 740.805. All cleanup objectives are in mg/kg.

Constituent	Ingestion		Inhalation	
	CUO	Comments	CUO	Comments
Tetrachloroethylene	2.388.49	Based on carcinogenicity	28.76	Inhalation of Volatiles: carcinogenic effects
Trichloroethylene	1.224.27	Based on non-carcinogenic effects	12.54	Inhalation of Volatiles: carcinogenic effects
Dichloroethane, 1,1-	21.789.72	Based on carcinogenicity	9.91	Inhalation of Volatiles: carcinogenic effects
Vinyl chloride	172.50	Based on carcinogenicity	1.11	Inhalation of Volatiles: non-carcinogenic effects
Benzene	2.258.21	Based on carcinogenicity	2.15	Inhalation of Volatiles: carcinogenic effects
Total CUO Concentrations	**27,833.19**		**54.47**	

Datasheet SSL-I: Ingestion of Carcinogenic Contaminants

Datasheet SSL-I is to be used to propose soil cleanup objectives for the ingestion of carcinogens exposure route calculated by equations in Appendix C, Table A of TACO: Equation S2 (residential scenario) and Equation S3 (industrial/commercial and construction worker scenarios).

For industrial/commercial properties, soil cleanup objectives for both the industrial/commercial scenario and the construction worker scenario must be calculated. Therefore, two datasheets must be submitted; one for the industrial/commercial scenario and one for the construction worker scenario.

Land Use Scenario: **Construction Worker**

Engineered Barrier	YES	NO	Institutional Control	YES	NO
TR (Unitless)	0.000001		BW (kg)		70
ATc (yr)	70		ED (yr)		1
EF (d/yr)	30		IRsoil (mg/d)		480
IFsoil-adj (mg-yr/kg-d)	Not Applicable		SFo (1/mg/kg-d)		See Below

Toxicological Properties

Chemical Name	SFo 1/(mg/kg-d)	Soil Cleanup Objective (mg/kg)
Benzene	0.0550	2,258.207
Dichloroethane, 1,1-	0.0057	21,789.717
Tetrachloroethylene	0.0520	2,388.488
Trichloroethylene	0.0110	11,291.035
Vinyl chloride	0.7200	172.502

Datasheet SSL-III(b): Inhalation of Carcinogenic Volatile Contaminants for Construction Worker Scenario

Datasheet SSL-III(a) is to be used to propose soil cleanup objectives for the inhalation of volatile carcinogens exposure route calculated by the equation in Appendix C, Table A of TACO: Equation S6 (residential and commercial/industrial scenarios). Since the values(s) listed in Datasheet SSL-VI are used in this evaluation, this datasheet must also be submitted.

For industrial/commercial properties, soil cleanup objectives for both the industrial/commercial scenario and the construction worker scenario must be calculated. Therefore, two datasheets must be submitted. Therefore, Datasheets SSL-III(a) and SSL-III(b) must be submitted.

Land Use Scenario: **Construction Worker**

Engineered Barrier	YES	NO	Institutional Control	YES	NO
TR (Unitless)	0.000001		EF (d/yr)	30	
ATc (yr)	70		ED (yr)	1	
URF 1/(µg/ml)*	See Below		VF (m^3/kg)**	See Below	

* Toxicological Properties: See Datasheet D

** VF values reported on Datasheet SSL-VI(a)

Chemical Name	URF 1/(µg/ml)	VF (ml/kg)	Soil Cleanup Objective (mg/kg)
Benzene	0.0000083	20.07	2.151
Dichloroethane, 1,1-	0.0000016	18.62	9.909
Tetrachloroethylene	0.0000006	19.58	28.757
Trichloroethylene	0.0000017	25.03	12.542
Vinyl chloride	0.0000044	7.96	1.540

Datasheet A: Physical Soil Parameters for the SSL Equations

Area(s)/Location(s) at the site, if applicable:

Predominant Soil Type (e.g., clay, sand, silty clay, etc.):

Surface (top 1 meter) or Subsurface (below 1 meter):

Site-specifc values [i.e., field measurements (F=) or calculated values using the SSL equation (Sxx=)] ar to be reported if they are used in developing the Tier 2 cleanup objectives. Acceptable procedures for obtaining these values are identified in Appendix C, Table F of TACO.

Parameter	Soil Type	Default Value	Units	Field Measurement or Calculated	Value
ρb (Soil Bulk Density)	Surface and/or Subsurface soils	1.5	kg/L	F =	
	Gravel	2.0			
	Sand	1.8		Surface	1.50
	Silt	1.6		Subsurface	1.50
	Clay	1.7			
ρs (Soil Particle Density)	Surface and/or Subsurface	2.65	g/cm³	Surface Subsurface	2.65 2.65
w (Moisture Content)	Surface and/or Subsurface Soils	0.1	gwater/gsoil (unitless)		
	Surface Soils	0.1			
	Subsurface Soils	0.2			
foc (Organic Carbon Content)	Surface Soils	0.006	g/g (unitless)	Surface	0.038
	Subsurface Soils	0.002		Subsurface	0.060
η (Total Soil Porosity)	Surface and/or Subsurface Soils	0.43	Lpore/Lsoil (unitless)		
	Gravel	0.25			
	Sand	0.32		Surface	0.43
	Silt	0.40		Subsurface	0.43
	Clay	0.36			
θa (Air-filled Soil Porosity)	Surface Soils	0.28	Lair/Lsoil (unitless)		
	Subsurface Soils	0.13			
	Gravel	0.05			
	Sand	0.14		Surface	0.28
	Silt	0.24		Subsurface	0.13
	Clay	0.19			
θ					

Datasheet A: Physical Soil Parameters for the SSL Equations

~~(Water-filled Soil Porosity) Surface~~	~~0.15~~	~~Lwater/Lsoil~~	
Subsurface Soils	0.30	(unitless)	
Gravel	0.20	Surface	0.15
Sand	0.18	Subsurface	0.30
Silt	0.16		
Clay	0.17		

Datasheet C: Chemical Properties

Chemical	Solubility in Water (S) (mg/L)	Diffusivity in Air (Di) (cm^2/s)	Diffusivity in Water (Dw) (cm^2/s)	Henry's Law Constant (H' @ 25°C)	Organic Carbon Partition Coefficient (Koc - L/kg)	First Order Decay Constant (λ - 1/day)
Benzene	1.75E+003	8.80E-002	9.80E-006	2.28E-001	8.89E+001	0.000900
Dichloroethane, 1,1-	5.06E+003	7.42E-002	1.05E-005	2.30E-001	3.16E+001	0.001900
Tetrachloroethylene	2.00E+002	7.20E-002	8.20E-006	7.54E-001	1.55E+002	0.000960
Trichloroethylene	1.10E+003	7.90E-002	9.10E-006	4.22E-001	1.66E+002	0.000420
Vinyl chloride	2.76E+003	1.06E-001	1.23E-006	1.11E+000	1.86E+001	0.000240

Datasheet D: Toxicological Properties

Chemical	Carcinogenicity Information			Non-Carcinogenicity Information					
	Unit Risk Factor 1/(mg/m³)	Inhalation Slope Factor 1/(mg/kg•day)	Oral Slope Factor 1/(mg/kg•day)	Chronic Oral RfD (mg/kg•day)	Subchronic Oral RfD (mg/kg•day)	Chronic Inhalation RfD (mg/kg•day)	Subchronic Inhalation RfD (mg/kg•day)	Chronic RfC (mg/m³)	Subchronic RfC (mg/m³)
Benzene	0.0000083	0.055	0.055						
Dichloroethane, 1,1-	0.0000016	0.006	0.006	0.100	1.000	0.14000	1.40000	0.500000	5.0000
Tetrachloroethylene	0.0000006	0.002	0.052	0.010	0.100				
Trichloroethylene	0.0000017	0.006	0.011	0.006	0.006				
Vinyl chloride	0.0000044	0.015	0.720	0.003	0.003	0.02857	0.02857	0.100000	0.1000

OVERSIZE

EXHIBIT FORWARD TO BASEMENT FOR SCANNING

RECORDED DATE

Doc#: 0519319002
Eugene "Gene" Moore Fee: $184.50
Cook County Recorder of Deeds
Date: 07/12/2005 08:12 AM Pg: 1 of 81

CASHIER # / NAME