

ILLINOIS POLLUTION CONTROL BOARD

Blake Leasing Company, LLC – Real Estate Series,)	
as owner of Kirkland Quick Stop,)	
)	
Petitioner,)	PCB No. 16-100
)	(Water Well Setback Exception)
v.)	
)	
Illinois Environmental Protection Agency and)	
Village of Kirkland,)	
)	
Respondents.)	

AMENDED NOTICE OF FILING

To: See Attached Certificate of Service

PLEASE TAKE NOTICE that on April 24, 2017, the Petitioner, Blake Leasing Company, LLC – Real Estate Series as owner of Kirkland Quick Stop, submits its Response to IEPA’s March 23, 2017 Response and Comments, along with Cost Estimates for Proposed Revised Remedial Activities, a copy of which is attached and served upon you.

Dated: April 24, 2017

Respectfully submitted,

On behalf of Blake Leasing Company, LLC –
Real Estate Series

/s/Charles F. Helsten

Charles F. Helsten
One of Its Attorneys

Charles F. Helsten
HINSHAW & CULBERTSON LLP
100 Park Avenue
P.O. Box 1389
Rockford, IL 61105-1389
815-490-4900
chelsten@hinshawlaw.com

CERTIFICATE OF SERVICE

I, Charles F. Helsten, an attorney, certify that I have served the above Amended Notice of Filing and attached Response to IEPA's March 23, 2017 Response and Comments, along with Cost Estimates for Proposed Revised Remedial Activities, via email and by depositing the attached in the U.S. Mail at Rockford, Illinois, with proper postage or delivery charge prepaid.

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/s/Charles F. Helsten



ST. JOHN - MITTELHAUSER & ASSOCIATES

TECHNICAL MEMORANDUM

Date: April 21, 2017

From: Ron St. John, Steve Swenson; St. John – Mittelhauser & Associates, Inc.

RE: **Written Responses to the Illinois EPA's Response dated March 23rd, 2017 to the Petitioner's Responses to the Illinois Pollution Control Board Questions for Blake Leasing Company, LLC v. Illinois Environmental Protection Agency and Village of Kirkland; PCB 16-100 (Water Well Setback Exception)**

Blake Leasing, LLC - Real Estate Series is providing the following written responses to the Illinois EPA response dated March 23, 2017.

In its response to the Board Question 1, Blake responds that injection wells will only be located within the setback zone of Well #1 (11424). Referring to Figure 1a, the Agency notes that monitoring wells MW-1 and MW-15, which have exceedances of remedial objectives, have injection wells both up gradient and down gradient of their locations. However, MW-3a, MW-12 and MW-6, which have higher concentrations of contaminants and consistently exceed remedial objectives do not have injection wells immediately down gradient of their locations. The Agency acknowledges that much of the Blake property where the injection wells are proposed has low dissolved oxygen (DO) concentrations, however, the majority of monitoring wells in that area do not have exceedances of remedial objectives. Even though MW-18 has higher levels of DO, MW-19 periodically falls below the 1.0 mg/L DO that Blake has established as the threshold for natural biologic action to take place. The Agency also recognizes that Blake's property ends just north of MW-3a, MW-14 and MW-6. Blake has installed monitoring wells between its property and railroad property, therefore Blake appears to have access to this area. The Agency believes that it is defensible to install injection wells in the same area. [...] The Agency is aware that installation of injection wells in this area may be within the setback zone of Well #2 (11425). The Agency believes that Blake has presented information that adequately demonstrates the safety and likely efficacy of the proposed air sparging. In the interest of achieving remediation goals as has been proposed, the Agency fully supports the installation of these injection wells within the setback zones of both Wells #1 (11424) and #2 (11425), as needed to meet those goals.

Response: Blake Leasing agrees with the assessment of the proposed air sparging system for the Kirkland Quick Stop Site (KQS) performed by the Agency in its response letter dated March 23rd, 2017. As a result, Blake Leasing has incorporated the recommendations made by the Agency into the current air

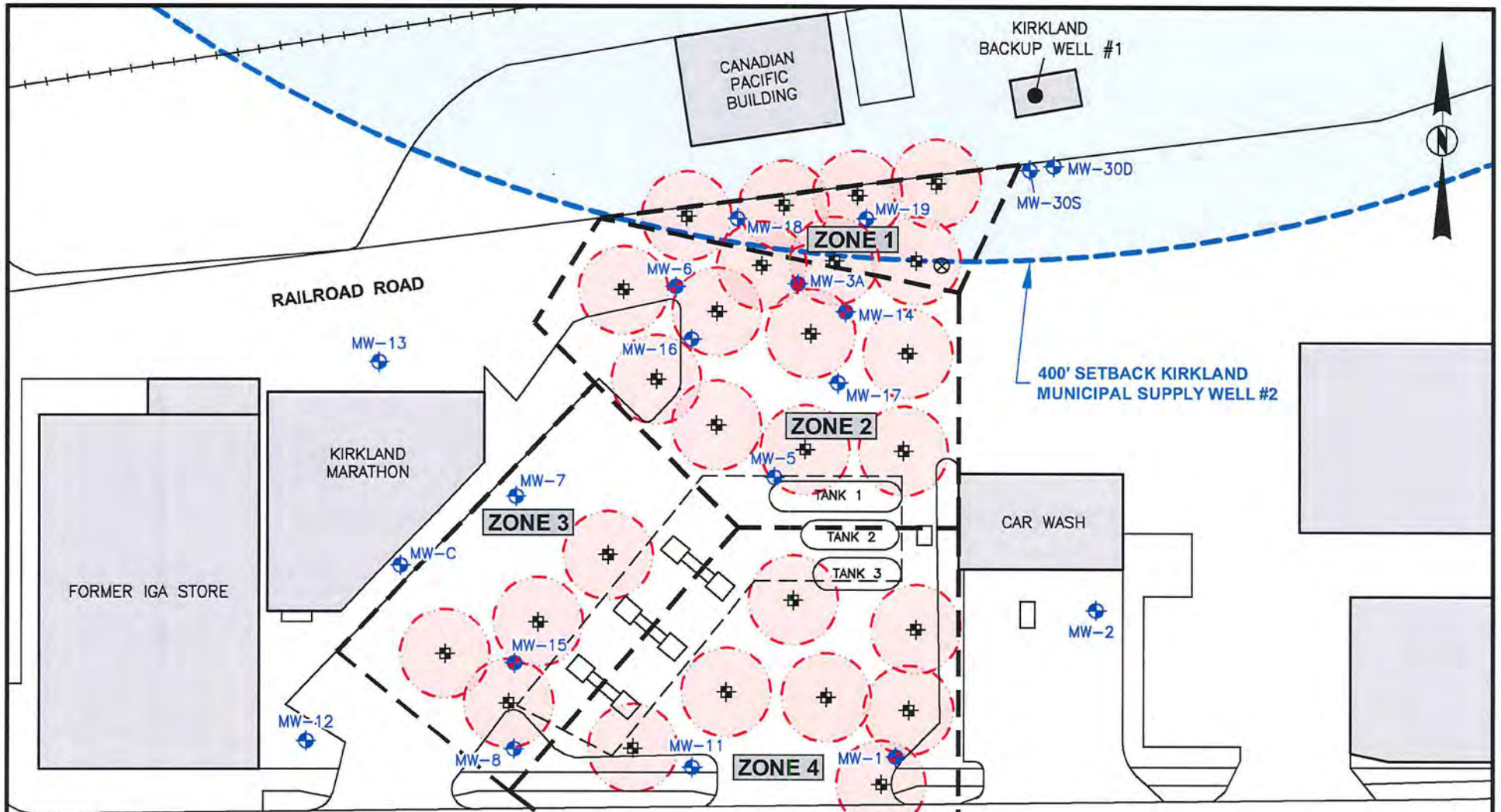
sparging system design. Modifications include:

- Increasing the total number of air injection wells from 15 wells in the prior design to 26 in the current design
- Including four (4) new air injection wells on the KQS property and in the adjacent alleyway within the setback zone of Well #1 (11424)
- Including five (5) new air injection wells in the adjacent alleyway within the setback zone of Well #2 (11425)
- Including two (2) new air injection wells in the adjacent alleyway within the setback zone of Well#1 (11424), having radii of influence that will overlap the setback zone of Well #2 (11425)




Additional air injection wells (Zone 1 and Zone 2, Figure 1) have been added to the KQS property and the alleyway that exists to the north, as recommended by the Agency. As the Agency also pointed out in its response, some of the newly proposed injection wells will be within the setback zone of Well #2 (11425), which is also shown on Figure 1. The dissolved oxygen concentrations are below 1.0 mg/L throughout much of the vicinity surrounding monitoring wells MW-6, MW-3A, MW-14, and slightly down gradient (generally to the north) of these points. Low-level petroleum hydrocarbon impacts have been observed in these wells, and the increased dissolved oxygen in the subsurface there will expedite the natural attenuation of these contaminants.

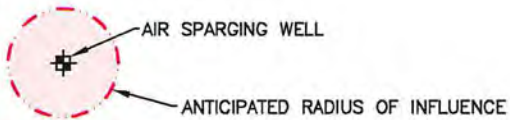
Four (4) additional injection wells have been added to the on-site/alleyway well network outside of the setback zone for Well #2 (11425), but within the setback zone of Well #1 (11424), to increase the air sparging coverage there. Under the combined radii of influence for the revised injection well network, the areas surrounding the on-site monitoring wells with intermittent, low-level petroleum hydrocarbon impacts (MW-1, MW-5, and MW-15) will be covered to the fullest extent possible (taking into account the existing service station infrastructure).

In summary, revised air sparging system design now includes a total of 26 injection wells (15 injection wells were included in the prior system design). Five (5) of these injection wells have proposed locations within the setback zone of Well #2 (11425), and an additional two (2) wells will have radii of influence which will overlap the setback zone. Together, these seven (7) injection wells will increase the dissolved oxygen in the petroleum impacted region in the vicinity of MW-6, MW-3A, MW-14, MW-18 and MW-19. The increased dissolved oxygen levels should also ensure continued compliance in the down gradient monitoring wells MW-18 and MW-19, which do not show exceedances of the remedial objectives.



LEGEND

-  MONITORING WELL LOCATION
-  MONITORING WELL LOCATION THAT EXCEEDS GRO
-  STORM SEWER LOCATION



MAIN STREET

SCALE IN FEET



CHK BY	SRS
DWN BY	OS
DATE	4-13-17
SCALE	AS SHOWN
CAD NO.	16013.01J2
PRJ NO.	15-16013

AIR SPARGING SYSTEM
CONCEPTUAL SITE MODEL

KIRKLAND QUICK STOP
411 MAIN STREET
KIRKLAND, ILLINOIS

FIGURE

1

Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form

I hereby certify that I intend to seek payment from the UST Fund for costs incurred while performing corrective action activities for Leaking UST incident 891717. I further certify that the costs set forth in this budget are for necessary activities and are reasonable and accurate to the best of my knowledge and belief. I also certify that the costs included in this budget are not for corrective action in excess of the minimum requirements of 415 ILCS 5/57, no costs are included in this budget that are not described in the corrective action plan, and no costs exceed Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Analysis amounts, and Appendix E Personnel Titles and Rates of 35 Ill. Adm. Code 732 or 734. I further certify that costs ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 732.606 or 734.630 are not included in the budget proposal or amendment. Such ineligible costs include but are not limited to:

- Costs associated with ineligible tanks.
- Costs associated with site restoration (e.g., pump islands, canopies).
- Costs associated with utility replacement (e.g., sewers, electrical, telephone, etc.).
- Costs incurred prior to IEMA notification.
- Costs associated with planned tank pulls.
- Legal fees or costs.
- Costs incurred prior to July 28, 1989.
- Costs associated with installation of new USTs or the repair of existing USTs.

Owner/Operator: Blake Leasing Compnay, LLC - Real Estate Series

Authorized Representative: John Blake Title: Owner
 Signature: [Signature] Date: 4/20/2017

Subscribed and sworn to before me the 20th day of April, 2017

[Signature]
 (Notary Public) Seal:

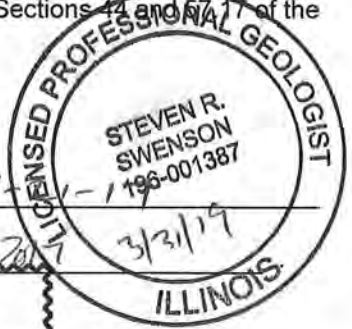


In addition, I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in the plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

L.P.E./L.P.G.: Steven R. Swenson L.P.E./L.P.G. Seal:
 L.P.E./L.P.G. Signature: [Signature] Date: 4/20/2017

Subscribed and sworn to before me the 21st day of April, 2017

[Signature]
 (Notary Public) Seal:



The Illinois EPA is authorized to require this information under 415 ILCS 5/1. Disclosure of this information is required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

General Information for the Budget and Billing Forms

LPC #: 0370305005 County: DeKalb

City: Kirkland Site Name: Blake Leasing Co. LLC - Real Estate Series

Site Address: Kirkland Quick Stop 411 West Main Street, Kirkland, Illinois 60146

IEMA Incident No.: 891717

IEMA Notification Date: 9-7-89

Date this form was prepared: April 14, 2017

This form is being submitted as a (check one, if applicable):

- Budget Proposal
- Budget Amendment (Budget amendments must include only the costs over the previous budget.)
- Billing Package

Please provide the name(s) and date(s) of report(s) documenting the costs requested:

Name(s): Technical Report Technical Memorandums

Date(s): Jan 5, 2017 2/23/17 3/17/17 4/21/17

This package is being submitted for the site activities indicated below:

35 Ill. Adm. Code 734:

- Early Action
- Free Product Removal after Early Action
- Site Investigation Stage 1: Stage 2: Stage 3:
- Corrective Action Actual Costs

35 Ill. Adm. Code 732:

- Early Action
- Free Product Removal after Early Action
- Site Classification
- Low Priority Corrective Action
- High Priority Corrective Action

35 Ill. Adm. Code 731:

- Site Investigation
- Corrective Action

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

Pay to the order of: Blake Leasing Company, LLC - Real Estate Series

Send in care of: John D. Blake

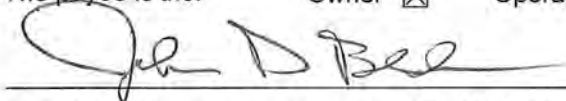
Address: 6807 Rote Road

City: Rockford

State: IL

Zip: 61107

The payee is the: Owner Operator (Check one or both.)



W-9 must be submitted.

[Click here](#) to print off a W-9 Form.

Signature of the owner or operator of the UST(s) (required)

Number of petroleum USTs in Illinois presently owned or operated by the owner or operator; any subsidiary, parent or joint stock company of the owner or operator; and any company owned by any parent, subsidiary or joint stock company of the owner or operator:

Fewer than 101: 101 or more:

Number of USTs at the site: 14 (Number of USTs includes USTs presently at the site and USTs that have been removed.)

Number of incidents reported to IEMA for this site: One

Incident Numbers assigned to the site due to releases from USTs: 891717

Please list all tanks that have ever been located at the site and tanks that are presently located at the site.

Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Gasoline	2,000	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Gasoline	1,000	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Diesel Fuel	1,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	891717	Piping Leak
Gasoline	5,000	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Gasoline	5,000	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Gasoline	500	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	891717	Tank Leak
Gasoline	500	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Gasoline	500	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Gasoline	500	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Gasoline	300	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Gasoline	10,000	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Gasoline	4,000	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Diesel Fuel	6,000	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Gasoline	3,000	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		

Add More Rows

Undo Last Add

Request for Taxpayer Identification Number and Certification

**Give Form to the
requester. Do not
send to the IRS.**

Print or type See Specific Instructions on page 2.	<p>1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.</p>
	<p>2 Business name/disregarded entity name, if different from above Blake Leasing Company LLC - Real Estate Series</p>
	<p>3 Check appropriate box for federal tax classification; check only one of the following seven boxes:</p> <p> <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate </p> <p> <input checked="" type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ P </p> <p>Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner.</p> <p><input type="checkbox"/> Other (see instructions) ▶</p>
	<p>4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <small>(Applies to accounts maintained outside the U.S.)</small></p>
	<p>5 Address (number, street, and apt. or suite no.) 6807 Rote RD</p>
	<p>6 City, state, and ZIP code Rockford, Illinois 61107</p>
	<p>7 List account number(s) here (optional)</p>
	<p>Requester's name and address (optional)</p>

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

Social security number											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; height: 20px;"></td> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">-</td> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">-</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> </table>			-		-						
		-		-							
or											
Employer identification number											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">4</td> <td style="width: 10%; text-align: center;">5</td> <td style="width: 10%; text-align: center;">-</td> <td style="width: 10%; text-align: center;">3</td> <td style="width: 10%; text-align: center;">6</td> <td style="width: 10%; text-align: center;">3</td> <td style="width: 10%; text-align: center;">5</td> <td style="width: 10%; text-align: center;">9</td> <td style="width: 10%; text-align: center;">4</td> <td style="width: 10%; text-align: center;">4</td> </tr> </table>	4	5	-	3	6	3	5	9	4	4	
4	5	-	3	6	3	5	9	4	4		

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here	Signature of U.S. person ▶	Date ▶ 4/19/2017
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at www.irs.gov/fw9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding? on page 2.

By signing the filled-out form, you:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
- Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.



ST. JOHN - MITTELHAUSER & ASSOCIATES

COST SUMMARY

Date: April 19th, 2017

From: Ron St. John, Steve Swenson; St. John – Mittelhauser & Associates, Inc.

RE: **Costs Associated with Amended Petition for a Water Well Setback Exception to Facilitate Remediation of LUST Incident 891717**

On behalf of Blake Leasing Company, LLC (Blake Leasing), SMA is providing the following summary of costs incurred by Blake Leasing in support of the Amended Petition for a Water Well Setback Exception. All costs are based on maximum payment amounts (July 1, 2016 through June 30, 2017) and are summarized on Illinois EPA Leaking Underground Storage Tank (LUST) budgetary forms. Copies of the budgetary forms are attached to this cost summary. Upon approval of the costs, Blake Leasing will submit a reimbursement package to the Illinois EPA LUST Section for payment of the approved costs. Activities associated with the incurred costs include:

- Conducted a review of available documents, including the Petition for Water Well Setback Exception submitted to the Illinois Pollution Control Board (IPCB) on March 21, 2016 and subsequent submittals from Blake Leasing Company, IPCB, and the Illinois EPA through June 15, 2016;
- Reviewed historic groundwater analytical data, sampling methodology, soil boring logs, monitoring well construction diagrams. Developed updated analytical data spreadsheets, base maps, contaminant (table) maps, and regional geologic cross sections;
- Collected groundwater samples from 17 monitoring wells at the Site in August 2016. Groundwater samples were collected using low-flow technology to facilitate the collection of field parameters (pH, conductivity, temperature, dissolved oxygen, and turbidity). Groundwater samples were submitted for laboratory analysis for the presence of benzene, toluene, ethyl benzene, and total xylenes (BTEX), polynuclear aromatic hydrocarbons (PNAs); total / dissolved lead and total / dissolved iron;
- Met with Kirkland Department of Public Works to discuss the status of Emergency Well #1 and obtain permission to install monitoring well MW-31 adjacent to Municipal Well #2 and conduct pump test on each to determine if there is a hydraulic connection between the shallow groundwater occurrence and the deeper bedrock aquifers in which Emergency Backup Supply Well #1 and Municipal Supply Well #2 are completed;

- Completed the installation and development of monitoring well MW-31. Completed pump tests on Emergency Backup Supply Well #1 and Municipal Supply Well #2 and analyzed data;
- Completed and submitted a draft Technical Report in August 2016 to Blake Leasing;
- Collection of groundwater samples from 17 monitoring wells at the Site in November 2016. Groundwater sample collection and laboratory analysis completed in the same manner as August 2016;
- Resampled monitoring wells MW-30S and MW-30D in December 2016 due to elevated turbidity during November 2016 sampling event;
- Finalized and submitted a Technical Report (dated January 5, 2016) in support of Blake Leasing's Amended Petition, submitted to the IPCB on January 6, 2016. The Technical Report provided a detailed discussion of the geology and hydrogeology (regional and site specific), analysis of groundwater samples collected in August, November, and December 2016, evaluation of the routes of exposure, and the selected remedial measure (including cost and technical feasibility);
- Review of IPCB's January 26, 2017 response to the Amended Petition and drafted a Technical Memorandum dated February 23, 2017 outlining SMA's conceptual approach to remediate the saturated sand unit through the use of air sparging;
- Reviewed IPCB's February 23, 2017 questions regarding the Technical Report and responded with a Technical Memorandum dated March 17, 2017. The Technical Memorandum provided additional information regarding the proposed air sparging system including system design and injection well placement, further discussion regarding air sparging as the "best available technology", timing, and clarification on the issue of turbidity in the groundwater samples;
- Reviewed Illinois EPA's response to SMA's Technical Memorandum dated March 17, 2017 regarding placement of additional air sparging wells within the setback zone of Municipal Supply Well #2. Drafted response concurring with Illinois EPA's assessment and provided updated figure of air sparging well locations; and
- Provided a summary of costs incurred associated with Amended Petition for a Water Well Setback Exception (IPCB Case 16-100).

ILLINOIS EPA LUST SECTION BUDGETARY FORMS

Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost (\$) per Analysis		Total per Parameter
Chemical Analysis					
BETX Soil with MTBE EPA 8260		X		=	
BETX Water with MTBE EPA 8260		X		=	
COD (Chemical Oxygen Demand)		X		=	
Corrosivity		X		=	
Flash Point or Ignitability Analysis EPA 1010		X		=	
Fraction Organic Carbon Content (f _{OC}) ASTM-D 2974-00		X		=	
Fat, Oil, & Grease (FOG)		X		=	
LUST Pollutants Soil - analysis must include volatile, base/neutral, polynuclear aromatics and metals list in Section 732, Appendix B and 734. Appendix B		X		=	
Dissolved Oxygen (DO)		X		=	
Paint Filter (Free Liquids)		X		=	
PCB / Pesticides (combination)		X		=	
PCBs		X		=	
Pesticides		X		=	
pH		X		=	
Phenol		X		=	
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270		X		=	
Polynuclear Aromatics PNA, or PAH WATER EPA 8270	70	X	112.50	=	\$7,875.00
Reactivity		X		=	
SVOC - Soil (Semi-Volatile Organic Compounds)		X		=	
SVOC - Water (Semi-Volatile Organic Compounds)		X		=	
TKN (Total Kjeldahl) "nitrogen"		X		=	
TPH (Total Petroleum Hydrocarbons)		X		=	
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		X		=	
VOC (Volatile Organic Compounds) - Water		X		=	
BTEX	74	X	45.00	=	\$3,330.00
		X		=	
		X		=	
		X		=	
		X		=	
Geo-Technical Analysis					
Soil Bulk Density (ρ _b) ASTM D2937-94		X		=	
Ex-situ Hydraulic Conductivity / Permeability		X		=	
Moisture Content (w) ASTM D2216-92 / D4643-93		X		=	
Porosity		X		=	
Rock Hydraulic Conductivity Ex-situ		X		=	
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54		X		=	
Soil Classification ASTM D2488-90 / D2487-90		X		=	
Soil Particle Density (ρ _s) ASTM D854-92		X		=	
		X		=	
		X		=	
		X		=	

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)		X		=	
Soil preparation fee for Metals Total Soil (one fee per soil sample)		X		=	
Water preparation fee for Metals Water (one fee per water sample)		X		=	
Arsenic TCLP Soil		X		=	
Arsenic Total Soil		X		=	
Arsenic Water		X		=	
Barium TCLP Soil		X		=	
Barium Total Soil		X		=	
Barium Water		X		=	
Cadmium TCLP Soil		X		=	
Cadmium Total Soil		X		=	
Cadmium Water		X		=	
Chromium TCLP Soil		X		=	
Chromium Total Soil		X		=	
Chromium Water		X		=	
Cyanide TCLP Soil		X		=	
Cyanide Total Soil		X		=	
Cyanide Water		X		=	
Iron TCLP Soil		X		=	
Iron Total Soil		X		=	
Iron Water	67	X	15.02	=	\$1,006.34
Lead TCLP Soil		X		=	
Lead Total Soil		X		=	
Lead Water	70	X	22.53	=	\$1,577.10
Mercury TCLP Soil		X		=	
Mercury Total Soil		X		=	
Mercury Water		X		=	
Selenium TCLP Soil		X		=	
Selenium Total Soil		X		=	
Selenium Water		X		=	
Silver TCLP Soil		X		=	
Silver Total Soil		X		=	
Silver Water		X		=	
Metals TCLP Soil (a combination of all metals) RCRA		X		=	
Metals Total Soil (a combination of all metals) RCRA		X		=	
Metals Water (a combination of all metals) RCRA		X		=	
Dissolved Iron	67	X	15.02	=	\$1,006.34
Dissolved Lead	70	X	22.53	=	\$1,577.10
		X		=	
		X		=	
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device		X		=	
Sample Shipping per sampling event ¹		X		=	

¹A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: \$ 16,371.88

Budget Summary

Choose the applicable regulation: 734 732

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action
Drilling and Monitoring Well Costs Form	\$	\$	\$	\$	\$ 2,607.10
Analytical Costs Form	\$	\$	\$	\$	\$ 16,371.88
Remediation and Disposal Costs Form	\$	\$	\$	\$	\$
UST Removal and Abandonment Costs Form	\$	\$	\$	\$	\$
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$	\$	\$
Consulting Personnel Costs Form	\$	\$	\$	\$	\$ 74,863.19
Consultant's Materials Costs Form	\$	\$	\$	\$	\$ 9,896.44
Handling Charges Form	Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable handling charges will be determined in accordance with the Handling Charges Form.				
Total	\$	\$	\$	\$	\$ 103,738.61