DEPARTMENT OF FLEET AND FACILITY MANAGEMENT
CITY OF CHICAGO

January 31, 2019

Jerry Minor-Gordon
5 Post Office Square
Mail Code: OSR
Boston, MA 02109-3912

Submitted through: grants.gov

Re: City of Chicago FY19 Brownfields Cleanup Grant Application
Narrative Information Sheet

Dear Evaluation Committee,

The City of Chicago is pleased to submit the enclosed Narrative Information Sheet as part of our FY19 Brownfields Cleanup Grant application for funds to remediate trichloroethylene contamination at 1807-1815 N. Kimball Avenue (the Site).

Thank you for your consideration of this grant application and we look forward to working with the USEPA to clean up this brownfield site for the Logan Square and Humboldt Park communities. This grant will significantly advance redevelopment of the Site as a public access park to the Bloomingdale Trail, the centerpiece of a rails-to-trails park and trail system called The 606.

Please contact Abby Mazza of my staff at 312.744.3161 if you have further questions.

Sincerely,

David J. Reynolds, P.E., LEED AP
Commissioner

Attachment: Letter from the Illinois Environmental Protection Agency

DEPARTMENT OF FLEET AND FACILITY MANAGEMENT
CITY OF CHICAGO

Narrative Information Sheet

1. Applicant Identification: City of Chicago, 30 North LaSalle, 3rd Floor, Chicago, IL 60602

2. Funding Requested:
   a. Grant type: Single Site Cleanup
   b. Federal Funds Requested:
      i. $500,000
      ii. Cost Share Waiver: No
   c. Contamination: Hazardous Substances

3. Location: City of Chicago, Cook County, Illinois

4. Property Information: 1807-1815 N. Kimball Avenue, Chicago, Illinois, 60647

5. Contacts

   a. Project Director
   Abby Mazza, P.E., Environmental Engineer III
   Phone: (312) 744-3161, Fax: (312) 744-6451
   E-mail: abby.mazza@cityofchicago.org
   30 N. LaSalle Street, 3rd Floor, Chicago, Illinois 60602

   b. Chief Executive/Highest Ranking Official
   Rahm Emanuel, Mayor
   Phone: (312) 744-3300, Fax: (312) 744-2324
   E-mail: Rahm.Emanuel@cityofchicago.org
   121 N. LaSalle Street, Room 507, Chicago, Illinois 60602

6. Population: 2,716,450[1]

7. Other Factors Checklist: None of the 'Other Factors' are applicable to this project.

8. Letter from the State or Tribal Environmental Authority: See attached.

[1] Data from the 2017 Population Estimates Program at https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=CF

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 ·(217)782-3397
JB PRITZKER, GOVERNOR ALEC MESSINA, DIRECTOR

January 15, 2019

City of Chicago
Department of Fleet and Facility Management
Attn: Abby Mazza
30 N. LaSalle Street,
3rd Floor,
Chicago, Illinois 60602

Dear Ms. Mazza:

The Illinois Environmental Protection Agency (Illinois EPA) has received your request for a letter of acknowledgement for an upcoming Brownfields Cleanup Grant application to U.S. EPA. The City of Chicago, Department of Fleet and Facility Management is applying for a $500,000 Brownfields Cleanup Grant for Hazardous Substances.

The focus of the grant will be to conduct cleanup activities at 1807-1815 N. Kimball Avenue, Chicago, Illinois.

Illinois EPA acknowledges the City of Chicago's efforts to obtain federal Brownfields funds for this project. If you have any questions, please contact me at (217) 524-2084 or by email at jenessa.n.conner@illinois.gov.

Sincerely,

Jenessa Conner

Jenessa Conner, Project Manager
Voluntary Site Remediation Unit
Remedial Project Management Section
Division of Remediation Management
Bureau of Land

c: Matt Didier – U.S. EPA Region 5

USEPA Brownfields Cleanup Grant Proposal Narrative

1807-15 North Kimball Avenue in Chicago, Illinois

1. PROJECT AREA DESCRIPTION AND PLANS FOR REVITALIZATION

1.a.i. Background and Description of Target Area: The brownfield property that is the subject of this cleanup grant is located at 1807-15 North Kimball Avenue in Chicago, Illinois (herein referred to as "the Site"). The Site has the most immediate impact on the Logan Square and Humboldt Park neighborhoods. Following the Great Fire of 1871, as well as the arrival of railways in the 1880s and 1890s, these two neighborhoods experienced the same rapid growth as the City. The late nineteenth and early twentieth centuries saw waves of European immigration into Logan Square and Humboldt Park. By 1960, however, much of the European-descended population had moved away, and the two neighborhoods had become the site of a burgeoning Hispanic and Latino community. By 1990, Hispanic and Latino residents comprised approximately 67% of the Logan Square's population, and by 2000, they comprised approximately 48% of Humboldt Park's population.[1]

The Logan Square and Humboldt Park neighborhoods are situated in the northwestern portion of Chicago, with Humboldt Park located directly south of Logan Square. The Bloomingdale Trail is an elevated greenway constructed on a former railroad that passes through the two neighborhoods and forms the backbone of a park and trail network called The 606, an extremely popular and successful park and trail network with over a million users each year. Trails such as this one help make bicycle travel a safe, attractive transportation alternative to travel by car, helping to reduce traffic congestion and improve air quality.

The 606 connects four diverse Chicago neighborhoods including Logan Square, Humboldt Park, Wicker Park, and Bucktown. Community concerns near The 606 include improving open spaces, expanding housing and transit options, providing affordable housing, and attracting new businesses. However, because of the industrial legacy of the two neighborhoods, Logan Square and Humboldt Park are densely populated, with very little land available for new development, including the creation of park space. This project is an opportunity to transform an underutilized vacant, contaminated brownfield sites with existing access to transportation infrastructure into a multi-benefit public space and community asset associated with The 606.

1.a.ii. Description of the Brownfield Site: The Site encompasses about 0.4 acres. It is vacant and covered in concrete or grass/soil. Soil and groundwater investigations have found concentrations of volatile and semi-volatile organic compounds and metals exceeding applicable state cleanup criteria. Trichloroethene (TCE) concentrations in soil beneath the eastern portion of the Site exceed the soil saturation (C_{sat}) limit. The Site's contamination is likely due to the following: metal, historic paint, lumber, and automobile or other warehouse operations; urban fill brought onto the Site; two heating oil USTs

[1] http://www.encyclopedia.chicagohistory.org/

(23,000-gallon and 25,000-gallon associated with the eastern adjacent property); and releases from historic industrial and manufacturing occupants.

1.b.i. Redevelopment Strategy and Alignment with Revitalization Plans: The cleanup to be funded under this grant aligns with several strategies outlined in the Neighborhood Plan for this area, the 2005 Logan Square Neighborhood Association Quality of Life Plan ("Logan Square: A Plan to Stay, a Place to Grow"). Most notably, the project is consistent with the following strategies: expanding and improving parks and recreational programs, and create new community spaces (Strategy 2); improving the health, safety, and wellbeing of residents and families (Strategy 6); and building community leadership and enabling all residents, young and old, citizens and non-citizens, to participate effectively in decisions affecting their lives (Strategy 8). With only slightly more than 0.6 acres of public park space per every thousand residents, the development of parks and gardens on vacant, brownfield parcels along the Bloomingdale Trail and The 606 are specifically noted as essential components of achieving Strategy 2. This grant project will aid in achieving this goal.

The neighborhood's development strategies echo the guiding goals in the 2004 Logan Square Open Space Plan, which identified the Site as a potential access point to the proposed Bloomingdale Trail. The Bloomingdale Trail and Park Framework Plan (2012) further developed conceptual plans for the Site as a major entry point to The 606 trail - the western portion of the trail currently has a low park density with the closest existing park to the Site being a ½ mile away. Cleanup of the Site and redevelopment into public park space is also aligned with Chicago's Cityspace Plan, which represents a comprehensive effort to create and preserve open space, including the significant need for park space. The cleanup activities funded by the grant will contribute to this city-wide vision to add parkland to reach the desired two acres per thousand residents.

1.b.ii. Outcomes and Benefits of Redevelopment Strategy: The activities performed under award of this grant are critical steps in advancing the Site cleanup for reuse and improving the attractiveness of the area. This, in turn, benefits the community's economic base through site readiness. Despite its appearance and degree of contamination, the Site already has an enhanced value due to its proximity to The 606. The ultimate goal is to redevelop the Site as a public park - with 80,000 residents living within a 10-minute walk of The 606[2], a new park on the Site is expected to be heavily used and will also potentially be an access point to The 606. Both Logan Square and Humboldt Park have been traditionally underserved communities, especially in terms of open public spaces. Eliminating hazards on the Site and improving it for public use will be an important factor for community planning efforts to enhance health, create new recreational space, and improve social equity.

1.c.i. Resources Needed for Site Reuse: Receipt of this cleanup grant would serve as a continuation of the City's partnership with EPA on this Site, as it would leverage previous EPA assessment grant funds and move it forward to the cleanup phase.

[2] https://www.chicagotribune.com/news/ct-606-trail-anniversary-met-0531-20160602-story.html

Previous work being leveraged include the 2012 Comprehensive Site Investigation Report (CSIR) completed by Weston, funded under a Targeted Brownfields Assessments (TBA) Grant and the 2013 Terracon Phase I and Phase II Environmental Site Assessments (ESAs), which were funded under the City's 2008 Hazardous and Petroleum Area Wide Assessment Grant.

The City of Chicago has allocated approximately $220,000 from its Open Space Impact Fee Fund to be applied towards TCE C_{sat} remediation of the Site (see Attachment A). Of this amount, $100,000 will be used to satisfy the required 20% match, and the remaining $120,000 are leveraged funds committed by the City to fund the portion of the TCE C_{sat} remediation not covered by the grant or match. In addition, the City has identified and contacted two previous owners who conducted manufacturing operations on the Site to seek contribution from these entities towards its investigation and remediation costs. Discussions are ongoing.

The need for TCE C_{sat} remediation is the biggest obstacle to obtaining a NFR letter and redeveloping the Site. Once this critical first remediation step is completed, it will be more likely that additional funding, including from the sources described above, will be committed to the later stages of remediation and redevelopment.

1.c.ii. Use of Existing Infrastructure: The grant will facilitate cleanup and allow the Site to be developed into a public park and incorporated into The 606's park and trail system. The Site's urban location allows efficient redevelopment utilizing existing utility and transportation infrastructure, including proximity to the redeveloped railroad corridor that is The 606 and an existing Chicago Transit Authority network of transportation options, including bus lines and the nearby Blue Line of the "L".

2. COMMUNITY NEED AND COMMUNITY ENGAGEMENT

2.a.i. The Community's Need for Funding: The population of the Milwaukee Avenue District, which our target area is located in, has fallen 22% over the past 50 years, roughly equal to Chicago overall.[3] While still a crowded area, the shrinking population, low income, and high unemployment rate in the area, especially in Humboldt Park, have left the community struggling to cover community necessities such as reviving greenspaces. Resources are not available to facilitate the necessary environmental remediation to help revitalize the community.

2.a.ii.(1) Health or Welfare of Sensitive Populations: The Logan Square and Humboldt Park neighborhoods are both comprised of high percentages of sensitive populations, as shown in Table 1, who are more susceptible to the negative effects of brownfields sites. While the Logan Square population remains slightly below the poverty and unemployment rates for the City of Chicago as a whole, the community still suffers from a severe lack of open spaces and public parks. Humboldt Park is part of the target area that experiences low income, poverty, and unemployment above that of the City

[3] https://www.chicago.gov/content/dam/city/depts/dcd/cnn/GREATERMILWAUKEE_CONTEXT.pdf

average, and would greatly benefit from access to affordable housing, jobs, health services, and other important resources.

Table 1. Logan Square, Humboldt Park, and City of Chicago Sensitive Populations

	Logan Square[1]	Humboldt Park[1]	City of Chicago
Population	76,743	56,848	2,716,450[2]
% Minority	56%	94.6%	50.9%[3]
% Age 0 – 15	17%	25.1%	-
% Age 65 +	11%	6.1%	
Poverty Rate	13.9%	23.2%	17.4%[1]
Unemployment	5.2%	12%	8.3%[1]

1 Data from the Chicago Health Atlas at https://www.chicagohealthatlas.org/
2 Data from the 2017 Population Estimates Program at https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=CF
3 Data from the 2017 American Community Survey (ACS), 5-Year Estimates at https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=CF

A community-driven survey conducted in Humboldt Park ("Sinai Community Health Survey 2.0") indicated that low income residents in Humboldt Park have reported a lack of food security due to the inability to afford public transportation, such as buses and trains. Both Logan Square and Humboldt Park experience higher than average childhood obesity rates. The childhood obesity rate for Logan Square and Humboldt Park are 27.4% and 27.7%, respectively. The obesity and overweight prevalence among Chicago Public Schools in Logan Square and Humboldt Park are 40 - 46% and 47 - 53%, respectively[4]. The prevalence of brownfield sites, including the Site, and the lack of accessible parks and open spaces, exacerbates health concerns such as obesity. Remediating the TCE will remove a major obstacle to the Site's redevelopment into a public park space. This additional park space will provide an opportunity for physical activity that can especially benefit the children (ages 0 to 15) who make up large percentages of the populations of each neighborhood.

2.a.ii.(2) Greater Than Normal Incidence of Disease and Adverse Health Conditions:

Table 2. Disease Rates in Logan Square, Humboldt Park, and City of Chicago

	Logan Square[1]	Humboldt Park[1]	City of Chicago[1]
Cancer Incidence (per 100,000)	428.4	477.5	475.7
Asthma Rate	9.8%	16.8%	9.1%

1 Data from the Chicago Health Atlas at https://www.chicagohealthatlas.org/

Several cumulative public health issues, such as cancer and asthma, disproportionately affect residents of the target area, especially the Humboldt Park neighborhood (See

[4] https://www.chicago.gov/content/dam/city/depts/cdph/CDPH/OverweightObesityReportFeb272013.pdf

Table 2 above). A Chicago Department of Public Health survey ("Healthy Chicago Survey") indicated that 9.8% of the Logan Square and 16.8% of Humboldt Park residents suffer from asthma, compared to the City of Chicago average of 9.1%. The same survey indicated that the Humboldt Park cancer incidence rate is above the City average. Additionally, a Presence Health Community Health and Needs Assessment reported that Humboldt Park has an unusually high rate of cancer in comparison to other community areas within the City.

Organic chemicals, including TCE and vinyl chloride, are present at the Site at concentrations that exceed remediation objectives established by the Illinois Tiered Approach to Corrective Action Objectives (TACO) program. Given the harmful nature of these contaminants, if local residents were to experience long-term sustained exposure to them, through direct contact and/or inhalation, then they could be put at increased risk for disease and adverse health conditions such as respiratory problems, nerve damage, cancer, and/or asthma. While these contaminants could pose a potential threat to the community as a whole, they are an especially significant threat to sensitive populations that are at higher risk for disease and adverse health conditions, including low-income and minority populations, as well as children and seniors. The TCE remediation planned under the Grant would fully identify and treat the highest concentrations of TCE at the Site, thereby addressing a contamination "source area" and reducing the potential for long-term public exposure to the contaminant.

2.a.ii.(3) Economically Impoverished/Disproportionately Impacted Populations:
Due to the demographic makeup of the target communities, as shown in Table 1, low-income minorities are disproportionately affected by the harmful effects of brownfields sites. According to the Chicago Health Atlas, Humboldt Park is considered to be an area with high economic hardship, with 32.7% child poverty, 23.2% household poverty, 24.1% individual poverty and 27.6% on food stamps - all of these values are above the City of Chicago average. Vacant underutilized properties such as the Site can hinder economic growth and redevelopment in these communities. Cleanup of the TCE contamination is critical to bringing the Site back to productive use as a public park space for the target communities.

2.b.i. Community Involvement:

Partner	Point of Contact	Specific Role
Friends of the Bloomingdale Trail (FOTBT)	Ben Helphand helphand@gmail.com 773-677-7970	FOTBT began in 2003 as a group of neighbors interested in transforming the Bloomdingdale Line. They played a critical role in realizing the Line's conversion to and construction of The 606 trail and park system. They are also the official park advisory council for the Bloomdingdale Trail. FOTBT's role for this project is in line with one of their core missions of sponsoring and promoting open communication regarding the Bloomingdale Trail and The 606. They have an active

Partner	Point of Contact	Specific Role
		following with a robust outreach system already in place and will be able to provide and help solicit direct input on both the cleanup and redevelopment of the Site.
Chicago Park District (CPD)	Heather Gleason heather.gleason@chicagoparkdistrict.com 312-742-4685	As the end user of the Site and manager of The 606, CPD will be kept informed of the remediation progress and provide input on future site design plans so they can be incorporated into both the grant and future cleanup activities.

2.b.ii. Incorporating Community Input: The community will be engaged through public meetings, neighborhood outreach and digital updates on 2FM's website. The City will continue to work with FOTBT on community outreach, which as shown from the public meeting for this grant application, has a large active following and will be an effective outreach partner. Community meetings will be held at critical milestones during the project design and environmental cleanup phases. Public input will be used to ensure the remediation and redevelopment aligns with community goals and the redevelopment design plans and improves access to greenspace and the interconnectedness of the neighborhood.

3. TASK DESCRIPTIONS, COST ESTIMATES, AND MEASURING PROGRESS

3.a. Proposed Cleanup Plan: The proposed remedial actions under the Grant will reduce TCE concentrations below C_{sat}, removing the primary environmental obstacle to Site redevelopment. Later cleanup actions to address other remedial objective exceedences will will likely include engineered barriers and institutional controls and will be completed under separate funding prior to or concurrent with redevelopment.

Specifically, the following cleanup activities are proposed:

- Reduction of TCE to below the C_{sat} limit in approximately 850 cubic yards (CY) of soil in the "TCE-impacted zone" located between 8 and 20 feet below the ground surface (bgs) by applying In-Situ Chemical Oxidation (ISCO) via soil mixing.
- Confirmation soil sampling and laboratory analysis to confirm the remaining levels of TCE are below the C_{sat} limit.
- No direct groundwater remedy other than remediation of source soils to C_{sat} concentrations is anticipated due to the City of Chicago Municipal Code 11-8-390 which prohibits the installation of new potable water supply wells.
- Onsite indoor air vapor intrusion is not a risk based on the future use of the site as a greenspace park without buildings. Potential offsite impacts will continue to be evaluated and, if needed, will be addressed under separate funding.

3.b. Description of Tasks and Activities: The grant project will comprise of the following tasks and activities:

- TASK 1 - Grant Management: Grant and project management will be performed by 2FM (with assistance from other City departments as needed) using its own resources and includes administering the brownfield grant and preparing and submitting performance and financial reports, procuring and managing the environmental consultant and cleanup contractor, and coordinating the environmental aspects of the future site redevelopment design (to ensure project timing and budget success).
  - *Key Outputs:* QAPP, performance and financial reporting, grant administration and oversight of brownfield cleanup and related activities.
  - *Cost (& Funding):* $0 (provided by 2FM)

- TASK 2 - TCE Cleanup (professional services): The selected environmental consultant will complete professional services including preparing applicable regulatory reporting and remediation design documents, and conducting field oversight. At the start of the project, a Quality Assurance Project Plan and Health and Safety Plan (HASP) will be prepared and submitted to EPA for review. Applicable regulatory reporting will include enrollment into the IEPA's Site Remediation Program (SRP), updating the CSIR, and development and submittal of a Remediation Objectives Report (ROR) and Remedial Action Plan (RAP) to the IEPA for approval.
  - *Key Outputs:* A QAPP and HASP approved by EPA and a CSIR/ROR/RAP will be completed with recommended remedial actions and approved by IEPA via the SRP.
  - *Cost (& Funding):* $87,000 (2FM Match) which includes $44,000 for QAPP, HASP, and remediation design documents; $13,000 for SRP reporting; and $30,000 for field oversight

- TASK 3 - TCE Cleanup (Reduction of TCE): The selected cleanup contractor will complete the recommended remedial actions which are expected to include In-Situ Chemical Oxidation (applied by soil mixing) to reduce TCE to below the C_{sat} limit in the eastern portion of the Site. Air monitoring, installation of an excavation support sytem and dewatering are included as part of the ISCO treatment cost.
  - *Key Outputs:* Successful treatment of soil below TCE C_{sat} limit, as confirmed by soil sampling results.
  - *Cost (& Funding)*: $508,000 ($500,000 Brownfield Grant and $8,000 2FM Match) which includes $71,000 for site preparation, mobilization, and demobilization and $437,000 for ISCO treatment

- TASK 4 - Community Engagement: Community engagement will be led by 2FM throughout the project to develop and inform public stakeholder groups about the cleanup and how it will impact redevelopment options, and evolve perceptions about brownfields and vacant space opportunities in the Logan Square and Humboldt Park neighborhoods and the City of Chicago at large. The City of Chicago 2FM and their contractors will provide the described community engagement services.
  - *Key Outputs:* Community meetings will be held. Information will also be shared on 2FM's website and during existing and/or planned community events.
  - *Cost & Funding:* 45 hours at average rate of $111/hr = $5,000 (2FM Match)

A general timeline of activities is included below.

Activities, Key Tasks, Outputs, and Responsible Organizations	***Year 1***				***Year 2***				***Year 3***			
TASK 1: Project Management												
- 2FM prepares/ executes RFP for consultant & contractor												
- 2FM prepares/ executes contracts with consultant & contractor												
- Consultant/partner initial meeting (review goals, timeline, roles)												
- 2FM manages grant and contractors throughout grant term												
TASK 2: Environmental Cleanup (professional services)												
-2FM/Consultant prepares QAPP/HASP												
- Consultant enrolls Site in SRP and prepares CSIR/ROR/RAP												
- IEPA reviews and approves CSIR/ROR/RAP												
- 2FM/Consultant completes project designs for sites												
TASK 3: Environmental Cleanup (Reduction of TCE)												
- Contractors complete ISCO soil mixing												
TASK 4: Community Engagement												
- 2FM disseminates cleanup project information to community												
- 2FM engages community for feedback at engagement events												
- 2FM coordinates community feedback with site designs												

3.c. Cost Estimates and Outputs: Section 3.b. summarized the key outputs and breakdown of costs used to develop the following project budget.

Budget Categories		**Project Tasks ($)**				Total
		Task 1: Grant Management (City Staff)	Task 2: TCE Cleanup (Professional Services)	Task 3: TCE Cleanup (Construction Contractor)	Task 4: Community Engagement (Professional Services)	
Direct Costs	Personnel	$ -	$ -	$ -	$ -	$ -
	Fringe Benefit	$ -	$ -	$ -	$ -	$ -
	Travel	$ -	$ -	$ -	$ -	$ -
	Equipment	$ -	$ -	$ -	$ -	$ -
	Supplies	$ -	$ -	$ -	$ -	$ -
	Contractual	$ -	$ 87,000	$ 508,000	$ 5,000	$ -
	Other (include subawards)	$ -	$ -	$ -	$ -	$ -
Total Direct Costs		$ -	$ 87,000	$ 508,000	$ 5,000	$ 600,000
Total Indirect Costs		$ -	$ -	$ -	$ -	$ -
Total Federal Funding		$ -	$ -	$ 500,000	$ -	$ 500,000
Cost share (20% of requested federal funds)		$ -	$ 87,000	$ 8,000	$ 5,000	$ 100,000
Total Budget (Total Direct Costs + Indirect Costs + Cost Share)		$ -	$ 87,000	$ 508,000	$ 5,000	$ 600,000

3.d. Measuring Environmental Results: The Site will be enrolled in the voluntary Illinois SRP which requires submittal and IEPA approval of the following reports prior to completing remediation: CSIR, ROR, and RAP. The results of Tasks 2 and 3 will be measured by the completion of TCE source area remediation to below the C_{sat} limit as

demonstrated by laboratory analysis of soil confirmation samples, and the completion, submittal, and IEPA approval of the CSIR/ROR/RAP. IEPA approval of the RAP, in particular, will memorialize IEPA's agreement that the proposed remedy addresses applicable rules and regulations and protects human health and environment. The measurable results from Task 1 will include the successful procurement and management of a qualified environmental consultant and cleanup contractor in a manner that completes the planned remediation and documentation in accordance with the Grant schedule. Task 4 results will be evaluated by documenting events and postings where project information is shared with the public.

Tracking and evaluating progress will be done by 2FM project management staff who routinely enroll and manage remediation of sites in the Illinois SRP, and who can draw on departmental staff with experience executing EPA Brownfields Grants.

4. PROGRAMMATIC CAPABILITY AND PAST PERFORMANCE

4.a.i. Organizational Structure: Ms. Abby Mazza from 2FM will oversee all aspects of the grant requirements. Ms. Mazza is a licensed professional engineer with over 16 years of experience in environmental consulting focusing on brownfield redevelopment. She has managed the planning, design, and construction phases for multiple complex sites including those impacted with chlorinated solvents, radiological contaminants and hazardous lead. She also has direct experience managing a remediation project funded by a federal grant, works regularly with IEPA, and has received numerous NFRs through the Illinois SRP. Project managers for the City's past Brownfields Assessment Grants will be available to assist Ms. Mazza with the grant requirements such as quarterly reports and entering site data into the Assessment, Cleanup and Redevelopment Exchange System (ACRES). The Office of Budget Management provides the financial management services necessary such as the oversight of project spending to ensure compliance with applicable regulations. The Department of Planning and Development (DPD) holds the property in their land inventory. DPD manages the Site, is involved in community engagement and determines the appropriate end use. DPD also manages many of the economic tools that the City uses to encourage brownfield redevelopment, such as Tax Increment Financing (TIF) districts, Empowerment Zone funds, low-interest loans and property tax reductions. The Department of Law provides real estate transaction support, and drafts and negotiates development agreements.

4.a.ii. Acquiring Additional Resources: 2FM will act as project manager and provide technical professional oversight for all cleanup activities, complete grant reporting and communicate with the EPA grant manager. 2FM will hire a pre-qualified environmental engineering consultant to prepare SRP technical reports, construction drawings and specifications as well as provide field oversight. For the construction activities, 2FM will either use an existing job order contract or work with the City's Department of Procurement Services to put the project out to bid.

4.b.i. Currently Has or Previously Received an EPA Brownfields Grant: The City of Chicago has had overwhelming success with its EPA brownfields redevelopment efforts, initiated in 1990 with a $2 million investment of General Obligation Bonds to create a

Brownfields Pilot. The pilot project was a resounding success, which was leveraged into a larger initiative through a combination of Section 108 loan guarantees from HUD, Showcase Community funds from EPA, and other sources. Since then, the City's brownfields initiatives have tackled the environmental assessment and remediation of hundreds of sites acquired through negotiated purchase, lien foreclosure, or tax reactivation on delinquent property. One of the major accomplishments is the redevelopment of a West Pullman Industrial Redevelopment Area site into the Ray and Joan Kroc Corps Community Center. This redevelopment was awarded the 2011 Phoenix Awards for Region 5, the People's Choice Award, and also the Grand Prize.

The three most recent include the following: a 2006 Petroleum Area Wide Assessment Grant for $200,000; a 2008 Hazardous Substances and Petroleum Area Wide Assessment Grant for $400,000; and a 2016 Hazardous Substances and Petroleum Area Wide Assessment Grant for $400,000. A one year, no-cost time extension was requested and received for the 2008 grant. The 2016 grant is still active. All tasks described in the work plans of all three grants were completed, quarterly reports were submitted, and all sites were accurately entered into ACRES. All the grant funds for the two closed grants have been expended.

2006 Petroleum Area Wide Assessment Grant: Accomplishments under this grant include technical training for staff and completion of 10 Phase I and nine Phase II ESAs, report preparation and programmatic fees for six sites under the Illinois SRP. Several of the properties have leveraged additional City funding for either Phase II activities or report preparation under the Illinois SRP. Of the six sites completing cleanup planning activities with the grant, four were developed as green or park space, and City funding was leveraged for additional investigation and final remediation and development. All grant funding was expended.

2008 Hazardous and Petroleum Area Wide Assessment Grant: Accomplishments under this grant include assessment of eight properties, including the Kimball Avenue Site. Several of the properties have leveraged additional City funding for either Phase II activities or report preparation under the SRP. Of the eight sites, two were developed as green or park space, and City funding was leveraged for additional investigation and final remediation and development. All grant funding was expended.

2016 Hazardous and Petroleum Area Wide Assessment Grant: Accomplishments under this grant include assessment of four properties to date, including four miles of a rails-to-trails path, a site to be used as a park with access to the Chicago River, and second property to be used as a park with access to the bike trail. All grant funding is expected to be expended by the end of the grant period. The Grant period for this assessment grant is October 2, 2016 to September 30, 2019.

Attachment A

Documentation for Leveraged Resources

DEPARTMENT OF PLANNING AND DEVELOPMENT
CITY OF CHICAGO

January 29, 2019

Kimberly Worthington
Deputy Commissioner
Department of Fleet and Facility Management
Bureau of Environmental, Health and Safety Management
30 N LaSalle Street, Suite 300
Chicago, IL 60602

RE: US EPA FY19 Brownfields Cleanup Grant
1807 – 1815 N Kimball

Dear Ms. Worthington:

The Department of Planning and Development is a partner with the Department of Fleet and Facilities for the application of grant assistance from the US EPA Brownfields Cleanup Grant program.

In support of this project, the Department has allocated $220,000 from Open Space Impact Fee Fund from the Logan Square Community Area to be applied towards additional assessment and remediation of the Kimball site. Of this amount, $100,000 will be used to satisfy the required 20% US EPA grant match, and the remaining $120,000 are leveraged funds committed by the City to be used for Site remediation.

Sincerely,

Kathleen Dickhut
Deputy Commissioner

Cc: N. Chueng, A. Mazza

Attachment B

Threshold Criteria Response

USEPA Brownfields Cleanup Grant Proposal
1807-1815 North Kimball Avenue in Chicago, Illinois
Threshold Criteria Response

1. Applicant Eligibility

The City of Chicago is a General Purpose Unit of Local Government.

2. Previously Awarded Cleanup Grants.

This Site has not previously received any EPA Cleanup Grant funds.

3. Site Ownership

The City of Chicago currently owns the Site, which was acquired through foreclosure in 2005 and consists of the following three Property Identification Numbers (PINs):

1. 13-35-409-037
2. 13-35-409-039
3. 13-35-409-042

4. Basic Site Information

Site Name: 1807-1815 N. Kimball Avenue
Site Address: 1807-1815 N. Kimball Avenue, Chicago, Illinois 60647
Current Site Owner: City of Chicago

5. Status and History of Contamination at the Site

Based on a review of historical Sanborn maps, the first known use of the Site was as a lumberyard for the Elsmere Lumber Co. in 1896, which extended east to the adjacent property. By 1921, the Site was vacant and railroad spurs from the Chicago, Milwaukee, and St. Paul railroad appeared adjacent to the south and the eastern adjacent property had been redeveloped into the American Laundry Machinery Co. (ALM). Historical operations at ALM included woodworking, testing, painting, crating, shipping, lumber storage, and casting storage. Machine shop operations also were identified.

By 1950, ALM had expanded westward onto the Site. Operations on the Site included warehousing, painting and an automobile garage. By 1975, both the Site and eastern adjacent property were depicted as Compco Corp, a fluorescent light fixture manufacturing facility, instead of as ALM. By 2002, both the Site and the eastern adjacent property were vacant. The Site was still vacant when the City of Chicago acquired it in 2005. It has remained vacant, with the exception of its use as a temporary staging area during construction of The 606, an adjacent, elevated rails-to-trails parks and trail system along the Bloomingdale Trail.

Multiple sampling events have been conducted at the Site after the City acquired it. These investigations confirmed the Site is contaminated by hazardous substances, presumed to be from both onsite and as well as from the eastern adjacent property's historical industrial operations.

The most significant contaminants of concern (COCs) are volatile organic compounds (VOCs), including 1,1,2-trichloroethane, 1,1-dichloroethene, , cis-1,2- dichloroethene,

tetrachloroethene, trans-1,2-dichloroethene, trichloroethene (TCE), and vinyl chloride. These COCs have been encountered in the soil, soil gas and groundwater across the Site at concentrations exceeding Illinois cleanup objectives and extending down to approximately 20 feet below ground surface. Along the eastern 50 to 75 feet of the Site, TCE soil concentrations are at their highest and exceed the soil saturation concentration (C_{sat}) at several soil boring sample locations.

Soil across the majority of the Site is also contaminated to a lesser extent with metals and polynuclear aromatic hydrocarbons (PNAs), primarily limited to the top six feet.

6. Brownfields Site Definition

The Site meets the definition of a brownfield under CERCLA § 101(39). In addition, the site is a) not listed or proposed for listing on the National Priorities List; b) not subject to unilateral administrative orders, court orders, administrative orders on consent, or judicial consent decrees issued to or entered into by parties under CERCLA; and c) not subject to the jurisdiction, custody, or control of the U.S. government.

7. Environmental Assessment Required for Cleanup Grant Proposals

Multiple environmental assessments have been conducted at the Site starting in 2010:

- Phase I Environmental Site Assessment (ESA), April 2010 – This initial site assessment identified several recognized environmental concerns (RECs), primarily associated with the past industrial use of the Site and adjoining property to the east.
- Phase II ESA, September 2010 – Based on the RECs identified in the 2010 Phase I ESA, 26 soil and three groundwater samples from 8 borings were analyzed for VOCs, semi-volatile organic compounds (SVOCs), PNAs, polychlorinated biphenyls (PCBs), pesticides, herbicides, RCRA metals, and/or target analyte list (TAL) inorganics.
- Comprehensive Site Investigation Report (CSIR), July 2012 – The CSIR was prepared under a Targeted Brownfields Assessments (TBA) Grant to delineate contamination identified in the Phase II. A total of 19 soil and three groundwater samples were collected from 10 borings advanced to a maximum depth of 10 feet. Several TCE concentrations exceeded soil saturation.
- Phase I ESA, August 2012 and Phase II ESA, January 2013 – Additional assessments of the Site were conducted as part of the EPA's Hazardous and Petroleum Area Wide Assessment Grant awarded to the City of Chicago. The purpose of the 2013 Phase II ESA was to vertically delineate the extent of the soil impacts as well as collect soil vapor and additional groundwater samples. The investigation included collecting five soil samples down to a maximum depth of 34 feet. In addition, four permanent monitoring wells were installed and groundwater samples collected, as well as six soil vapor samples.
- Focused Sampling, November 2018 – In preparation for remediation design, additional targeted sampling was conducted to delineate the extent of TCE soil saturation exceedances, collect additional soil vapor and groundwater samples, and collect additional data from IEPA's target compound list in support of a comprehensive residential No Further Remediation (NFR) Letter. In addition, a

bench test sample was collected to confirm feasibility of ISCO treatment and a Fraction of Organic Carbon (foc) sample was also collected in order to develop a site-specific C_{sat} limit.

8. Enforcement or Other Actions

The City is not aware of any enforcement actions or liens against the Site. The City has identified and contacted two previous owners who conducted manufacturing operations on the Site to seek contribution from these entities towards its investigation and remediation costs. Discussions are ongoing.

9. Sites Requiring a Property-Specific Determination

The site does not need a Property-Specific Determination.

10. Threshold Criteria Related to CERCLA/Petroleum Liability for Hazardous Sites

The City of Chicago qualifies as exempt from CERCLA liability under Section *10. i. (3)*, as supported by the following:

(a) The City of Chicago acquired the Site by tax delinquency foreclosure.
(b) The City of Chicago acquired the parcels comprising the Site on September 10, 2002 (PIN 1-13-35-409 -042) and May 9, 2005 (PINs 1-13-35-037 and -039).
(c) All disposal of hazardous substances at the Site occurred before the City of Chicago acquired the property and the City of Chicago did not cause or contribute to any release of hazardous substances at the Site.
(d) The City of Chicago has not, at any time, arranged for the disposal of hazardous substances at the Site or transported hazardous substances to the Site.

11. Cleanup Authority and Oversight Structure

The City's Department of Fleet and Facility Management (2FM) will manage the grant and associated cleanup work. 2FM's Bureau of Environmental Health and Safety Management has multiple staff experienced in successfully managing grant-funded brownfields investigations and cleanups at City-owned sites. 2FM will enroll the Site in IEPA's Site Remediation Program in pursuit of a comprehensive residential NFR Letter.

Access to the adjacent properties may be necessary in order to obtain the NFR. The City has reached out the applicable adjacent site owners and notified them of the Site's contamination and potential need for access to their property. The City will continue discussions with the owners to obtain formal access as needed.

12. Community Notification

A public meeting to discuss the City's intent to apply for the grant was held at the Kimball Art Center located across from the Site on January 22, 2019 at 6 pm, attended by approximately 20 people. A meeting notice was published in English the Chicago Sun-Times on January 13 and 20, 2019 and in Spanish in Hoy (a Chicago Tribune publication) on January 18, 2019. Friends of the Bloomingdale Trail hosted the meeting and conducted the following outreach:

- sent out notifications via e-mail to several geographically-based groups for Humboldt Park, Logan Square and Palmer Square ranging in size from a few hundred to 6,000 members;
- posted signs at and near the Site; and
- created an event for the Friends of the Bloomingdale Trail Facebook Group, which has 5,369 members.

Hard copies of the draft proposal, including the draft Analysis of Brownfield Cleanup Alternatives, were provided at the local library branch and at 2FM's office downtown. An electronic copy was also posted on the City's website.

As part of the meeting notice, the public was invited to submit written comments to 2FM's office or via e-mail. Comment cards and a project fact sheet (provided in both English and Spanish) were handed out at the meeting.

Overall, the comments received were positive and in support of the project. Please see Attachment C for community notification documents.

13. Statutory Cost Share

A cost share amount of $100,000, which represents the required 20% match, will be provided. The source of the cost share is from the City's Open Space Impact Fee Fund.

Attachment C

Community Notification Documentation

- Draft ABCA
- Project Fact Sheet
- Meeting Notices
- Meeting Summary and Presentation
- Public Comments
- Response to Comments
- Meeting Sign-In Sheet

Prepared for:

City of Chicago
Dept of Fleet and Facility Management
Chicago, Illinois

Prepared by:

AECOM
Chicago, Illinois
60585513
January 2019

Draft Analysis of Brownfield Cleanup Alternatives

1807-1815 North Kimball Avenue
Chicago, Illinois

Prepared for:

City of Chicago
Dept of Fleet and Facility Management
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Draft Analysis of Brownfield Cleanup Alternatives

1807-1815 North Kimball Avenue
Chicago, Illinois

Prepared By Shannon Flanagan, PE

Reviewed By Matthew Hildreth, PG

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1.0 Introduction

This Analysis of Brownfield Cleanup and Alternatives (ABCA) report has been prepared for the City of Chicago Department of Fleet and Facility Management (2FM) regarding the 1807-1815 North Kimball Avenue Site located in Chicago, Illinois (herein referred to as "the Site"). The proposed cleanup under the Brownfield Cleanup Grant will include the reduction of trichloroethylene (TCE) concentrations to below the soil saturation concentration (C_{sat}) limit. Later remedial actions to eliminate the soil ingestion and soil inhalation exposure pathways for areas where soil exceeds the Tiered Approach to Corrective Action Objectives (TACO) Tier 1 Soil Remediation Objectives (SROs) will be completed under separate funding prior to or concurrent with redevelopment.

This ABCA report includes the following:

- A summary of the Site background and the future use of the Property;
- A description of the previous environmental investigations and their findings, including the Phase I and Phase II Environmental Site Assessments (ESAs) and the Comprehensive Site Investigation Report (CSIR);
- Analysis of potential remediation alternatives for cleanup of the 1807-1815 North Kimball Avenue Site; and
- Selection of the most appropriate alternative.

2.0 Background

2.1 Site Location and Description

The Site occupies three parcels (PINs 13-35-409-037, 13-35-409-039, 13-35-409-042) in the northwestern portion of Chicago, Illinois, and is located adjacent to residential properties to the north and to the east, Kimball Avenue to the west and The Bloomingdale Trail to the south. The Bloomingdale Trail is an elevated greenway constructed on a former railroad running east-west on the northwest side of Chicago that forms the main line a park and trail network called The 606. The location of the subject property is depicted on **Figure 2-1**.

The Site encompasses approximately 0.4 acres and is mostly vacant with some portions covered in concrete and some portions covered in grass/soil. The Site's topography is generally flat on the northern and eastern portions, with a sloped embankment connecting the Site to the Bloomingdale Trail (approximately 15 to 16 feet above the Site grade). The elevation of the flat portion of the Site is between 600 and 605 ft above mean sea level (amsl).

The closest surface water body is a small pond in Humboldt Park approximately 0.75 miles southeast of the Site. The north branch of the Chicago River is approximately 2.8 miles east of the Site. The North Branch of the Chicago River flows south into the Chicago Sanitary and Ship Canal, away from Lake Michigan. Lake Michigan is approximately 4.5 miles east of the Site. Lake Michigan is the sole source of the City of Chicago's drinking water.

2.2 Previous Site Uses and Site History

The City of Chicago acquired the Site in 2005 through foreclosure. Prior to the City of Chicago's ownership, land use at the site was primarily industrial. The known historic uses of the Site based on historic fire insurance maps are provided below:

- In 1896, the Site was utilized as a lumberyard for the Elsmere Lumber Company (ELC) and contained a single-family dwelling on the northern portion.
- By 1921, the Site was vacant, and a concrete retaining wall existed along the southern Site boundary. Railroad spurs from the Chicago, Milwaukee, and St. Paul railroad were present to the south.
- By 1950, American Laundry Machinery Company (ALMC), which had occupied the eastern adjacent property, expanded to occupy the Site. Historical operations at ALMC included woodworking, testing, painting, crating, shipping, lumber storage, casting storage, and machine shop operations.
- By 1975, the Compco Corporation (Compco) was present in place of ALMC in the vicinity of the Site and the eastern adjacent site. Compco is described on the 1975 Sanborn Map as "Manufacturers of Fluorescent Fixtures."
- By 2003, the Site was vacant. Two small structures were demolished by the City of Chicago, one in 2001, and one in 2002/2003.

The Site was occupied for nearly a century by industrial and manufacturing operations associated with ELC, ALMC, Compco and others that occurred on the Site and the adjoining east and south properties. The property to the west (across North Kimball Avenue) was historically industrial until recent development as a multi-family apartment complex. The properties to the north have historically been single-family residential.

2.3 Site Assessment Findings

The following previous environmental investigations have been completed for this Site and its adjacent properties:

- Clean World Engineering, Ltd. (CWE), 2010, Phase I ESA Report, 1807-1815 North Kimball Avenue, Chicago, Illinois, April 2010
- Brecheisen Engineering, Inc. (Brecheisen), 2010, Phase II ESA, 1807-1815 North Kimball Avenue, Chicago, Illinois, September 2010
- Weston Solutions, Inc. (Weston), 2012, Comprehensive Site Investigations Report (CSIR), 1807-1815 North Kimball Avenue, Chicago, Illinois, July 2012
- Terracon Consultants, Inc. (Terracon), 2012, Phase I Environmental Site Assessment (ESA), 1809-1815 North Kimball Avenue, Chicago, Illinois, August 2012
- Terracon, 2013, Phase II Site Investigation Summary, 1809 North Kimball Avenue, Chicago, Illinois, January 2013
- AECOM, 2018, Additional Investigation, 1807-1815 N Kimball Ave, Chicago, Illinois, October 2018

These previous environmental investigations are further described in the following sections.

2.3.1 Phase I ESAs

The following recognized environmental conditions (RECs) were identified based on the Phase I ESA Reports, prepared by Northern (2003), CWE (2010), and Terracon (2012):

- Long term historical Site uses that included metals, painting, automobile or other warehousing, lumber storage and warehousing, storage operations and other industrial uses assumed to be associated with historic and adjoining Site operations by ELC, ALMC, Compco and others.
- Records for two heating oil underground storage tanks (USTs) (23,000-gallon and 25,000-gallon) installed on the eastern adjacent property in 1952 were identified, with no documentation on the disposition
- Listings of the eastern adjacent property a Resource Conservation and Recovery Act (RCRA) Small Quantity Generator (SQG) of hazardous waste and a RCRA non-generator
- Light industrial facility (manufactured fluorescent light bulbs and fixtures) adjoining to the east is listed as a former small quantity RCRA generator facility,
- History of long term uses that include lumber storage and warehousing and storage operations,
- Documented soil and groundwater contamination onsite, documented onsite fill material, and
- Potential for USTs located southeast of the site.

Based on the historical Site use and RECs, the primary sources of contamination are likely derived from paint, lumber, and automobile warehouse operations at the Site, urban fill, potential petroleum releases from two heating oil USTs (23,000-gallon and 25,000-gallon) installed on the eastern adjacent Site in 1952, and potential historical releases from the Site and adjacent property formerly occupied by ELC, ALMC, Compco and others.

2.3.2 Phase II ESAs, CSIR and Additional

Subsurface environmental investigations, including the Phase II ESAs and sampling associated with the CSIR and recent, additional investigations were completed for this site and its adjacent properties between November 2002 and October 2018. The 2012 CSIR, completed by Weston, was funded under a Targeted Brownfields Assessments (TBA) Grant and the 2013 Terracon Phase I and Phase II ESAs were funded under the City's 2008 Hazardous and Petroleum Area Wide Assessment Grant.

The scope of work and results of each of these investigations are summarized below:

Investigation	Scope of Work	Results
Brecheisen 2010, *Phase II ESA, 1807-1815 N Kimball Ave*	Advancement of eight soil borings to depths of 6- to 24-feet Collection of soil samples Installation of three monitoring wells Collection of groundwater samples	Soil analytical results exceed applicable Illinois TACO SROs for SVOCs and Metals Groundwater analytical exceed applicable Class II Groundwater Remediation Objectives (GROs) for VOCs and metals
Weston, 2012, *CSIR, 1807-1815 N Kimball Ave*	Advancement of ten soil borings to a maximum depth of 20-feet Collection of soil samples including fraction organic carbon analyses Collection of groundwater samples, field parameters and hydraulic conductivity	Soil analytical results exceed applicable Illinois TACO SROs for volatile organic compounds (VOCs) and SVOCs Groundwater analytical exceed applicable Class II GROs for VOCs
Terracon, 2013, *Phase II Site Investigation Summary, 1809 N Kimball Ave*	Advancement of five soil borings to depths of 15 to 30 feet Collection of soil samples Collection of six soil gas samples Installation of four monitoring wells Collection of groundwater samples	Soil analytical results exceed applicable Illinois TACO SROs for VOCs and SVOCs Soil gas analytical results exceed Tier 1 Remedial Objectives (ROs) for Residential Indoor Inhalation for VOCs Groundwater analytical exceed applicable Class II GROs for VOCs
AECOM, 2018 *Additional Investigation, 1807-1815 N Kimball Ave*	Advancement of 22 soil borings to a maximum depth of 30 feet Collection of soil samples Collection of four soil gas samples Collection of four groundwater samples Collection of a Total Oxidant Demand sample	Results are preliminary at present, and in draft form. When finalized, they will better define the extent of TCE above the soil saturation limit, better delineate the extent of soil vapor impacts, and inform soil remediation design.

The investigations listed above found that concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and inorganics in soil at the site exceeded applicable Illinois TACO SROs, and that TCE concentrations in some soil on the eastern portion of the Site exceed the C_{sat} limit. Groundwater results from the site investigations exceeded the applicable Class II Groundwater Remediation Objectives (GROs). Soil gas samples at two locations exceeded Tier 1 Remediation Objectives (ROs) for Indoor Inhalation for residential properties for TCE, and at one location also for Vinyl Chloride.

A summary of the analytical results from prior Site investigations, including the Phase II ESAs, the CSIR sampling event, and the 2018 additional investigation are provided in **Appendix A.** A sample location and C_{sat} exceedance map is provided as **Figure 2-2.**

2.4 Project Goal

The TCE C_{sat} cleanup activities to be performed under this grant are critical steps in advancing the Site cleanup for reuse. The ultimate goal is to redevelop the Site as a public park that will be connected to the adjacent elevated Bloomingdale Trail, allowing it to serve as an access point to the trail and park network (The 606).

3.0 Cleanup Goals and Objectives

3.1 Cleanup Oversight Responsibility

The Site will be enrolled in the voluntary Illinois Site Remediation Program (SRP), which is overseen by the Illinois EPA. The steps in the regulatory process for the Site will be to update and submit the CSIR, prepare a Remediation Objectives Report (ROR) and Remedial Action Plan (RAP), implement remediation, and submit a Remedial Action Completion Report (RACR) to document the cleanup actions. The SRP will provide technical support and review of these reports, and will approve or deny reports based on fulfilment of the requirements of the SRP and the Illinois Tiered Approach to Remedial Action Objectives (TACO) regulations that govern environmental cleanups and risk assessment in the state. Successful remediation will result in receipt of a Comprehensive No Further Remediation (NFR) letter from the Illinois EPA in accordance with 35 IAC Part 740 (the SRP). The proposed cleanup under the Brownfield Cleanup Grant includes the reduction of TCE concentrations to below the C_{sat} limit, which is a critical step to fulfill the SRP requirements and receive an NFR letter.

The City of Chicago will contract with a professional environmental consultant to provide technical assistance, design, report preparation, and oversight services during the remediation process. The consultant will provide the services of professional scientists and engineers licensed in Illinois to prepare, review, and certify technical reports for submittal to the Illinois EPA.

3.2 Cleanup Standards for Major Contaminants

Sites enrolled in the Illinois SRP must evaluate and address exposure pathways for contaminants that exceed applicable cleanup standards in accordance with the rules and regulation found in 35 IAC Parts 740 and 742 (The SRP and TACO). The City anticipates that the TACO ROs for residential use and Class II groundwater will be used as the first-tier cleanup standards. The City also anticipates the development of site-specific, risk-based ROs for specific contaminants of concern in accordance with the SRP and TACO regulations.

3.3 Laws & Regulations Applicable to the Cleanup

Laws and regulations that are applicable to this cleanup include the Federal Small Business Liability Relief and Brownfields Revitalization Act, the Federal Davis-Bacon Act, state environmental law, and local regulations. Federal, state, and local laws regarding procurement of contractors to conduct the cleanup will be followed.

In addition, all appropriate permits (e.g., notify before you dig, soil transport/disposal manifests) will be obtained prior to the work commencing.

4.0 Alternatives Considered

4.1 Cleanup Alternatives Considered

The proposed Cleanup under the Brownfield Cleanup Grant will include implementation of a remedial technology to reduce TCE concentrations identified in the eastern portion of the site to below the C_{sat} limit.

Additional actions to fulfill the SRP requirements and receive an NFR letter may include the installation of an engineered barrier to eliminate soil ingestion and soil inhalation exposure pathways of soil with concentrations of VOCs, SVOCs and inorganics that exceed the applicable TACO Tier 1 SROs. As part of the NFR letter, institutional controls (ICs) will be implemented in the form of a deed restriction or environmental restrictive covenant to ensure the long-term effectiveness of the soil remedy by protecting the engineered barrier and ensuring health and safety of future construction workers. The ICs would require appropriate health and safety precautions (e.g. site-specific Health and Safety Plan (HASP) and a construction worker caution zone) prior to any future remediation / construction activities. These additional actions will be completed under separate funding prior to or concurrent with redevelopment.

Remediation of groundwater and soil vapor is not anticipated. No direct groundwater remedy other than remediation of source soils to below C_{sat} concentrations is anticipated. The exposure path of groundwater that exceeds TACO GROs will be addressed by the City of Chicago Municipal Code 11-8-390 which prohibits the installation of new potable water supply wells. Onsite indoor air vapor intrusion is not considered a risk based on the future use of the site as a greenspace park. Potential offsite impacts will continue to be evaluated and, if needed, will be addressed under separate funding.

A preliminary evaluation of remedial alternatives that were considered is provided in **Table 4-1**. Alternatives that were determined to have low effectiveness, low implementability or prohibitive costs were not evaluated further. The following alternatives warranted further consideration and have been evaluated in subsequent sections:

Alternative #1 – No Action

Alternative #2 – Excavation and Landfill Disposal of Soil exceeding TCE C_{sat} Limit

Alternative #3 – In Situ Chemical Oxidation Treatment (Soil Mixing) of Soil exceeding TCE C_{sat} Limit

4.2 Cleanup Alternative Evaluation

Cleanup technologies proposed to address the soil contamination to be remediated under the Brownfield Cleanup Grant were evaluated based on established criteria including the following: effectiveness (protection of human health and the environment, proven long- and short-term effectiveness of the remedy, regulatory compliance, reduction in toxicity/mobility/volume), implementability (probability of success, feasibility and schedule) and cost. Costs for the additional actions to fulfill the SRP requirements and receive an NFR letter were not included in this evaluation.

4.2.1 Effectiveness

Alternative #1: The Alternative #1 No Action is not considered effective. No Action would leave the Site in its current state and would not address the soil exceeding TCE C_{sat} Limit. This alternative would leave soil with TCE concentrations that exceed the C_{sat} limit (considered "source material") in place. The Site would not meet IEPA TACO regulations and would not be eligible to receive an NFR letter.

Alternative #2: The effectiveness of Alternative #2 Excavation of Soil exceeding TCE C_{sat} Limit is high. Soil Excavation would remove soil containing TCE concentrations that exceed the C_{sat} limit and transport material offsite for disposal at an appropriate facility. Soil samples collected from the base and walls of the excavation area would confirm soil exceeding the TCE C_{sat} Limit was fully removed.

Additional actions may be implemented to fulfill the SRP requirements including the installation of an engineered barrier (either a 3-foot geological barrier or 18-inch equivalent geotextile and soil barrier) across the full site. This is an effective way to eliminate the soil ingestion exposure route, with an enhanced (10' clean soil or clean fill plus vapor barrier) soil inhalation barrier where needed. The engineered barrier would effectively protect human health and the environment by preventing contact with contaminated soil as long as the barrier is maintained. An institutional control would need to be instituted to protect the engineered barrier and to ensure health and safety of future construction workers. An Operation and Maintenance Plan (O&M Plan) and regular maintenance would be recommended to monitor and protect the engineered barrier.

Alternative #3: The effectiveness of Alternative #3 – In Situ Chemical Oxidation Treatment (Soil Mixing) of Soil exceeding TCE C_{sat} Limit is high. ISCO has been proven to be effective at reducing TCE concentrations that exceed the C_{sat} limit to below the C_{sat} limit when reactants can reach contaminants. Soil mixing is the preferable reactant delivery method in low-permeability soils like those found at the Site. Soil samples will be collected from a variety of depths and locations within the treated mass to confirm the remaining levels of TCE in soil are below the C_{sat} limit. This delivery method allows some opportunity to add reagent and re-treat an area that fails confirmation sampling without requiring a later remobilization.

Additional actions may be implemented to fulfill the SRP requirements including the installation of an engineered barrier (either a 3-foot geological barrier or 18-inch equivalent geotextile and soil barrier) across the full site. This is an effective way to eliminate the soil ingestion exposure route, with an enhanced (10' clean soil or clean fill plus vapor barrier) soil inhalation barrier where needed. The engineered barrier would effectively protect human health and the environment by preventing contact with contaminated soil as long as the barrier is maintained. An institutional control would need to be instituted to protect the engineered barrier and to ensure health and safety of future construction workers. An O&M Plan and regular maintenance would be recommended to monitor and protect the engineered barrier.

4.2.2 Implementability

Alternative #1: Implementing Alternative #1 No Action is simple/effortless. No actions are required to be completed.

Alternative #2: The ease of implementing Alternative #2 Excavation of Soil exceeding TCE C_{sat} Limit is moderate. The zone of soil exceeding TCE C_{sat} Limit is 8 feet to 20 feet below grade. Implementation would include removal and onsite stockpiling of the top 8 feet of soil, potential dewatering, design and installation of an excavation support system, excavation and offsite disposal

of Soil exceeding the TCE C_{sat} Limit, and backfilling the excavation using unimpacted spoils from onsite and/or imported clean fill.

Installation of the engineered barrier would include the removal of surface soil across the site, offsite disposal or reuse of this material as backfill in the TCE C_{sat} excavation area, importing of clean soil and (if needed) geotextile/vapor barrier, and placement of imported material across the site. Regular maintenance in accordance with the O&M Plan would be recommended.

Community air monitoring and dust/odor suppression may be needed during cleanup activities. If dewatering is required, water will need to be treated and discharged either to the local POTW via a permit or disposed of at an offsite facility. Short-term disturbance to the community (e.g., trucks transporting contaminated soils and backfill) are anticipated.

Alternative #3: The ease of implementing Alternative #3 – In Situ Chemical Oxidation Treatment (Soil Mixing) of Soil exceeding TCE C_{sat} Limit is moderate. The zone of soil exceeding the TCE C_{sat} Limit is 8 feet to 20 feet below grade. Implementation would include removal and onsite stockpiling of the top 8 feet of soil, potential dewatering, design and installation of an excavation support system, treatment of soil exceeding the TCE C_{sat} Limit using ISCO applied by soil mixing. Limited, additional treatment can be applied during the initial mobilization to address areas that fail confirmation sampling.

Installation of the engineered barrier would include the removal and disposal of surface soil across the site, importing of clean soil and (if needed) geotextile/vapor barrier, and placement of imported material across the site. Regular maintenance in accordance with the O&M Plan would be recommended.

Community air monitoring and dust/odor suppression may be needed during cleanup activities. If dewatering is required, water will need to be treated and discharged either to the local POTW (assuming they accept the water) via an NPDES permit or disposed of at an offsite facility.

4.2.3 Cost

Alternative #1: The costs to implement No Action would be minimal.

Alternative #2: The estimated rough order of magnitude costs to implement Excavation of Soil exceeding TCE C_{sat} Limit would be approximately $1,157,000.

Alternative #3: The estimated rough order of magnitude costs to implement In Situ Chemical Oxidation Treatment (Soil Mixing) of Soil exceeding TCE C_{sat} Limit would be approximately $720,000.

5.0 Selected Alternative and Proposed Cleanup Plan

The recommended cleanup alternative is Alternative #3 – In Situ Chemical Oxidation Treatment (Soil Mixing) of Soil exceeding TCE C_{sat} Limit and Engineered Barrier. Alternative #1: No Action cannot be recommended since it does not address site risks to human health and the environment. Both Alternative #2 and Alternative #3 are effective remedial options that use confirmation sampling to verify the reduction of TCE in soil to below the C_{sat} Limit. Both Alternative #2 and Alternative #3 include similar implementation challenges and long-term maintenance, but are considered moderately simple to implement. Alternative #2 may cause slightly more short-term disturbance to the community (e.g., trucks transporting contaminated soils and backfill) than Alternative #3. The estimated remediation cost of Alternative #3 (approximately $720,000) is approximately 38% less than the estimated cost of Alternative #2 (approximately $1,157,000).

Table

Table 4-1
Remedial Alternatives Preliminary Evaluation
2FM 1807-1815 N. Kimball Site
Chicago, Illinois

Project Remedial Goals: Clean-up the Site for future redevelopment as a greenspace park

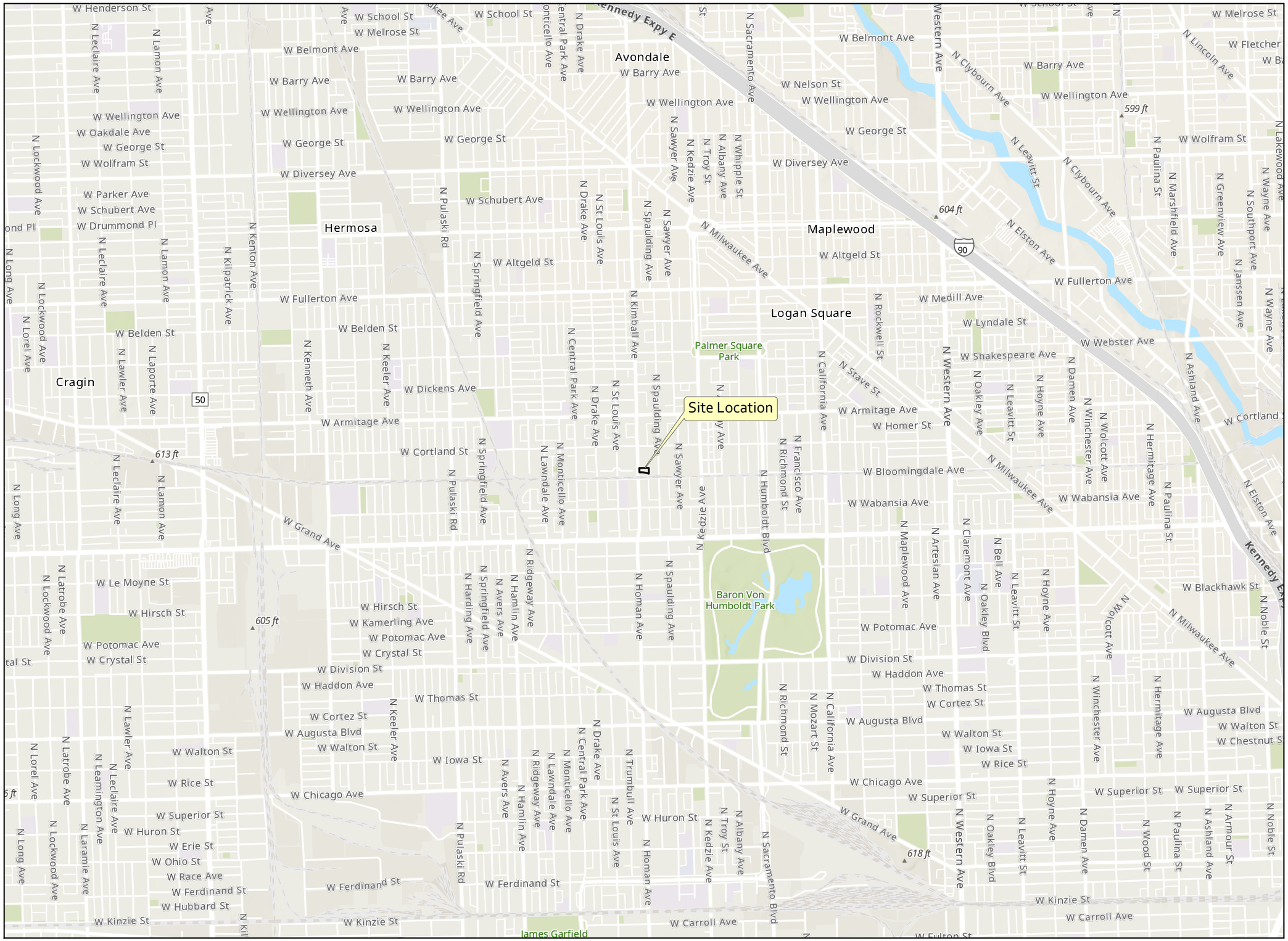
1. Reduce TCE concentrations below soil saturation concentration (C_{sat})
2. Eliminate soil ingestion and inhalation exposure pathways(s) for soil exceeding the TACO Tier 1 SROs

Institutional Controls:

1. Land-use restriction to protect and ensure long-term effectiveness of soil remedy
2. City of Chicago Municipal Code to eliminate groundwater and soil migration to groundwater exposure pathways.

Project Remedial Goals:	**Grant Project: Reduction of TCE below C_{sat}**						**Future Phase (as additional funding becomes available): Eliminate soil ingestion and inhalation pathways**	
Comparison Parameter	**Excavation and Disposal**	***In Situ* Chemical Oxidation - Soil Mixing**	***In Situ* Chemical Oxidation - Direct Injection**	***In Situ* Bioremediation**	***In Situ* Air Sparge / Soil Vapor Extraction**	***In Situ* Thermal Treatment**	**Engineered Barrier (3-ft geological or 18-inch soil and geotextile equivalent)**	**Excavation and Disposal**
Effectiveness Proven effectiveness for intended application	Excavation and offsite disposal would remove soil with TCE above the C_{sat} limit from the Site.	ISCO treatment has been proven effective at reducing VOCs to below C_{sat} as long as reactants can reach contaminants. Soil mixing is effective at delivering reactant even in low-permeability soils.	ISCO treatment has been proven to be effective at reducing VOCs below Csat if reactants can reach contaminants; however, Site geology has low-permeability soil which would prevent reactant from reaching contaminants.	The predominance of TCE, and relatively low concentration of TCE biodegradation products, indicates that only limited natural biodegradation occurring at this site.	Air Sparge / Soil Vapor Extraction would be ineffective in the Site's low permeability glacial till (mean hydraulic conductivity of approximately 6 x 10-7 cm/s) and in the predominantly clay geology in the TCE Csat exceedance zone.	This technology has been proven to reduce VOC source material. It has been used to recover free-product by heating the subsurface and groundwater to close to the boiling point of water (~100^{0}C).	An engineered barrier would eliminate exposure risk by preventing receptors from coming into contact with contaminated soils. An institutional control would be needed.	Excavation and offsite disposal would eliminate exposure risk at the Site by removing and properly disposing the contaminated soil.
Effectiveness Rating (Low, Moderate, High)	High	High to Moderate	Low to Moderate	Low	Low	High	High	High
Implementability Ease of implementation	Implementation would include removal and stockpiling of the top 8 feet of soil, potential dewatering, design and installation of an excavation support system, excavation and offsite disposal of Soil exceeding the TCE Csat Limit, and backfilling the excavation using unimpacted spoils from onsite and/or imported clean fill.	Implementation of ISCO soil mixing would include removal and stockpiling of the top 8 feet of soil, potential dewatering, design and installation of an excavation support system, treatment of soil exceeding the TCE Csat Limit using ISCO applied by soil mixing. Additional applications of ISCO may be required based on confirmation sampling.	ISCO direct injection will not be easy to implement due to predominantly clay geology in the TCE Csat exceedance zone. TOD must be met by the oxidants applied to the treatment zone, and the overall water injection rates must allow adequate pore flushing and contact with TCE in the formation to treat VOCs to levels below Csat. Implementation would require installation of multiple injection wells in the source area in order to deliver the oxidant. Multiple rounds of injections should be expected for this technology.	Implementation of bioremediation is not considered favorable.	Implementation of Air Sparge / SVE will be very difficult given the low permeability glacial till formation and predominantly clay geology in the TCE-source zone.	Implement of thermal treatment is feasible but would likely require a extensive timeframe. Implementation would include installation of steel wells, application of electric current to each electrode which would flow between electrodes via the soil and groundwater. The resistance offered by the media (to the flow of current) results in heating the soil and facilitates remediation.	Implementation of an engineered barrier across the site would include removal of surface soil, installation of geotextile and importation and placement of clean soil across the site. The site is open and the planned end use is greenspace. Regular barrier maintenance in accordance with an O&M Plan would be needed.	Excavation with offsite disposal of all soil exceeding the TACO Tier 1 SROs would require additional delineation sampling. The known depths of contaminated soils may in places require excavation to extend below the water table, requiring dewatering and installation of a sheeting system to excavate to the property boundary.
Implementability Rating (Low, Moderate, High)	Moderate	Moderate	Low to Moderate	Low	Low	High	High	Low
Cost Cost Rough Order of Magnitude (ROM) of Implementation Ranges: *Very High >$2MM, High $1-$2MM, Medium $500K-1MM, Low <$500K*	*Medium*	*Medium*	*Medium*	*Medium*	*Medium to High*	*Very High*	*Low*	*Medium to High*
Further Evaluation	**Evaluate**	**Evaluate**	**Further Evaluation not warranted**	**Further Evaluation not warranted**	**Further Evaluation not warranted**	**Further Evaluation not warranted**	**Evaluate**	**Further Evaluation not warranted**

Figures



Project Site

Figure 2-1
Site Location Map

AECOM

0 10 20
Feet

Project Site

Cook County Parcel Boundary

Sample Location - *October 2018 Investigation (Preliminary)*[2]

Soil Boring

Soil Vapor Point

Soil Boring (TCE exceeds c_{sat} limit)

Sample Location - *Previous Investigations by BEI (2010)*[1a], *Weston (2012)*[1b], *and Terracon (2012)*[1c]

Temporary Monitoring Well

Soil Boring

Soil Vapor Point

Permanent Monitoring Well (assume viable for sampling)

Soil Boring (TCE exceeds c_{sat} limit)

Area of Soil Exceeding TCE C_{sat} Limit

Note:
1. The locations of previously installed soil borings, monitoring wells and soil vapor points are based on the following reports:

a. Phase II Environmental Site Assessment dated September 24, 2010 and prepared by Brecheisen Engineering, Inc. (BEI). Soil Borings include B-1 to B-8. Temporary Monitoring wells include TMW-1, TMW-2 and TMW-3 (assume wells were decommissioned).

b. Comprehensive Site Investigation Report for the Kimball Avenue Park dated July 27, 2012 and prepared by Weston Solutions, Inc. (Weston). Soil Borings include KP-SB01 to KP-SB10.

c. Phase II Site Investigation Summary dated January 22, 2013 and prepared by Terracon Consultants, Inc. (Terracon). Soil Borings include TB-01 to TB-05. Monitoring wells include MW-4 to MW-7 (assume wells are viable for sampling). Soil Vapor Points include SV-01 to SV-06.

2. Sample locations shown in grey were from the additional investigation completed by AECOM in October 2018. These locations and results are preliminary at present, and in draft form. Soil borings included DB-1 to DB-22 and soil vapor points invlced SV-7, SV-8, SV-9 and SV-10.

Figure 2-2
Sample Location and Soil Exceeding TCE Csat Limit Map

AECOM

Appendix A

Previous Investigation Data (TCE Results)

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
pH	SU	10.1	8.1	8.3	NA	8.1	8.7	NA	NA	NA
Fractional Organic Carbon	%	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organic Carbon Content	%	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Inorganics										
Aluminum	mg/kg	NA	NA	NA	NA	22,000	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	3.3	NA	NA	NA	NA
Arsenic	mg/kg	3.3	8.5	NA	NA	11	9.9	NA	NA	NA
Barium	mg/kg	32	110	NA	NA	140	62	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	1.6	NA	NA	NA	NA
Cadmium	mg/kg	0.52 U	0.51 U	NA	NA	0.69	0.58 U	NA	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	14,000	NA	NA	NA	NA
Chromium	mg/kg	88	38	28	21	37	20	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	14	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	75	NA	NA	NA	NA
Cyanide	mg/kg	NA	NA	NA	NA	0.32 U	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	30,000	NA	NA	NA	NA
Lead	mg/kg	14	30	NA	NA	180	16	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	11,000	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	330	NA	NA	NA	NA
Mercury	mg/kg	0.025 U	0.029 U	NA	NA	0.84	0.03 U	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	46	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	3,900	NA	NA	NA	NA
Selenium	mg/kg	1 U	1 U	NA	NA	3	1.2 U	NA	NA	NA
Silver	mg/kg	1 U	1 U	NA	NA	1.3 U	1.2 U	NA	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	340	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	1.3 U	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	42	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	110	NA	NA	NA	NA
TCLP Metals										
Arsenic, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, TCLP	mg/L	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA
Lead, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
Pesticides										
4,4'-DDD	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
4,4'-DDE	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
4,4'-DDT	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Aldrin	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
alpha-BHC	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
beta-BHC	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Chlordane (Technical)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
delta-BHC	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Dieldrin	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Endosulfan I	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Endosulfan II	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Endosulfan sulfate	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Endrin	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Endrin aldehyde	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Endrin ketone	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
gamma-BHC (Lindane)	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Heptachlor	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Heptachlor epoxide	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Methoxychlor	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
Toxaphene	mg/kg	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA
PCBS										
PCB-1016 (Aroclor 1016)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	mg/kg	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	mg/kg	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA
Herbicides										
2,4,5-T	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dalapon	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Picloram	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
VOCs										
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,1,1-Trichloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
1,1,2,2-Tetrachloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
1,1,2-Trichloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.05	0.0046 U	0.0062 U
1,1-Dichloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
1,1-Dichloroethene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.05	0.0043 J	0.0051 J
1,1-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2,3-Trichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0037 J	0.0062 U
1,2-Dibromoethane (EDB)	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2-Dichloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
1,2-Dichloropropane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,3-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,4-Difluorobenzene	mg/kg	0.05	NA	0.05	NA	0.06	0.06	NA	NA	NA
2,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
2-Butanone (MEK)	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.023 U	0.031 U
2-Chlorotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
2-Hexanone	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.092 U	0.12 U
4-Chlorotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
4-Methyl-2-pentanone (MIBK)	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.023 U	0.031 U
Acetone	mg/kg	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.092 U	0.12 U
Acrolein	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Acrylonitrile	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Benzene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.008	0.2	0.005 U	0.0046 U	0.0062 U
Bromobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Bromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Bromodichloromethane	mg/kg	0.002 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0046 U	0.0062 U
Bromoform	mg/kg	0.002 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0046 U	0.0062 U
Bromomethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
Carbon disulfide	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0092 U	0.012 U
Carbon tetrachloride	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U

Table D-1
Soil Analytical Results
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Chicago, Cook County, Illinois

Chemical Name	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
Chlorobenzene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
Chloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
Chloroform	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	6.13	0.0061	0.0034 J
Chloromethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
cis-1,2-Dichloroethene	mg/kg	0.01	NA	0.05	0.005 U	0.2	368	1.16	0.077	0.045
cis-1,3-Dichloropropene	mg/kg	0.002 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0046 U	0.0062 U
Dibromochloromethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
Dibromomethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Dichlorodifluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Ethyl methacrylate	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Ethylbenzene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	3	0.01	0.0046 U	0.0062 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Iodomethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Isopropylbenzene (Cumene)	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Methylene Chloride	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.018 U	0.025 U
Methyl-tert-butyl ether	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
Naphthalene, VOC	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
n-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0036 J	0.0062 U
n-Hexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.019	0.0062 U
n-Propylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0039 J	0.0062 U
Pentafluorobenzene	mg/kg	0.05	NA	0.05	NA	0.06	0.06	NA	NA	NA
p-Isopropyltoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
sec-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Styrene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
tert-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Tetrachloroethene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.05	1	0.04	0.0046 U	0.0062 U
Toluene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.008	10	0.28	0.0029 J	0.0062 U
trans-1,2-Dichloroethene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	8	0.06	0.0034 J	0.0062 U
trans-1,3-Dichloropropene	mg/kg	0.002 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0046 U	0.0062 U
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Trichloroethene	mg/kg	0.03	NA	0.09	0.005 U	0.3	599	408	8.2	9.6
Trichlorofluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Vinyl acetate	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Vinyl chloride	mg/kg	0.002 U	NA	0.002 U	0.002 U	0.002 U	11	0.16	0.016	0.012
Xylene (Total)	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.006	4	0.05	0.0092 U	0.012 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
Chemical Name	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
SVOCs										
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	NA	0.22 U	0.22 U	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	NA	0.06 U	0.06 U	NA	NA	NA
2,4-Dichlorophenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2,4-Dimethylphenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2,4-Dinitrophenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	NA	0.21 U	0.21 U	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA
2-Chloronaphthalene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2-Chlorophenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA
2-Methylphenol(o-Cresol)	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2-Nitroaniline	mg/kg	NA	NA	NA	NA	3.3 U	3.3 U	NA	NA	NA
2-Nitrophenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	NA	NA	NA	0.83 U	0.83 U	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA
3-Nitroaniline	mg/kg	NA	NA	NA	NA	3.3 U	3.3 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	NA	2 U	2 U	NA	NA	NA
4-Bromophenylphenyl ether	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
4-Chloro-3-methylphenol	mg/kg	NA	NA	NA	NA	1.3 U	1.3 U	NA	NA	NA
4-Chloroaniline	mg/kg	NA	NA	NA	NA	0.33 U	0.33 U	NA	NA	NA
4-Chlorophenylphenyl ether	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
4-Nitroaniline	mg/kg	NA	NA	NA	NA	3.3 U	3.3 U	NA	NA	NA
4-Nitrophenol	mg/kg	NA	NA	NA	NA	3.3 U	3.3 U	NA	NA	NA
Acenaphthene	mg/kg	0.05 U	0.05 U	NA	NA	0.15 U	0.15 U	NA	NA	NA
Acenaphthylene	mg/kg	0.05 U	0.05 U	NA	NA	0.07 U	0.07 U	NA	NA	NA
Anthracene	mg/kg	0.12	0.08 U	NA	NA	0.3 U	0.3 U	NA	NA	NA
Benzo(a)anthracene	mg/kg	2.42	0.008 U	NA	NA	0.07 U	0.07 U	NA	NA	NA
Benzo(a)pyrene	mg/kg	4.58	0.02 U	NA	NA	0.07 U	0.07 U	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	6.29	0.05	NA	NA	0.06 U	0.06 U	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	3.76	0.15	NA	NA	0.12 U	0.12 U	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	2.09	0.02	NA	NA	0.12 U	0.12 U	NA	NA	NA
Benzyl alcohol	mg/kg	NA	NA	NA	NA	1.3 U	1.3 U	NA	NA	NA
bis(2chloro1methylethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
Chemical Name	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
bis(2-Chloroethoxy)methane	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
bis(2-Chloroethyl) ether	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Bis(2-chloroisopropyl)ether	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Butylbenzylphthalate	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Carbazole	mg/kg	NA	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA
Chrysene	mg/kg	2.58	0.05 U	NA	NA	0.09 U	0.09 U	NA	NA	NA
Dibenz(a,h)anthracene	mg/kg	0.25	0.02 U	NA	NA	0.11 U	0.11 U	NA	NA	NA
Dibenzofuran	mg/kg	NA	NA	NA	NA	0.22 U	0.22 U	NA	NA	NA
Diethylphthalate	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Dimethylphthalate	mg/kg	NA	NA	NA	NA	3.3 U	3.3 U	NA	NA	NA
Di-n-butylphthalate	mg/kg	NA	NA	NA	NA	0.5 U	0.5 U	NA	NA	NA
Di-n-octylphthalate	mg/kg	NA	NA	NA	NA	0.86 U	0.86 U	NA	NA	NA
Fluoranthene	mg/kg	2.16	0.05 U	NA	NA	0.18	0.09 U	NA	NA	NA
Fluorene	mg/kg	0.03 U	0.03 U	NA	NA	0.14 U	0.14 U	NA	NA	NA
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Hexachlorobenzene	mg/kg	NA	NA	NA	NA	0.07 U	0.07 U	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	NA	NA	NA	NA	0.17 U	0.17 U	NA	NA	NA
Hexachloroethane	mg/kg	NA	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	3.45	0.11	NA	NA	0.13 U	0.13 U	NA	NA	NA
Isophorone	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Naphthalene	mg/kg	0.05 U	0.05 U	NA	NA	0.09 U	0.09 U	NA	NA	NA
Nitrobenzene	mg/kg	NA	NA	NA	NA	0.24 U	0.24 U	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	NA	NA	NA	NA	0.67 U	0.67 U	NA	NA	NA
Pentachlorophenol	mg/kg	NA	NA	NA	NA	0.03 U	0.03 U	NA	NA	NA
Phenanthrene	mg/kg	0.45	0.03 U	NA	NA	0.12 U	0.12 U	NA	NA	NA
Phenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Pyrene	mg/kg	1.94	0.05 U	NA	NA	0.23	0.07 U	NA	NA	NA
Petroleum Hydrocarbons										
TPH (C06-C10)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-DRO (C10-C28)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	6- 9	3- 6	6- 9	0- 3	3- 6	0- 3	3- 6	6- 9	9- 12
pH	SU	NA	8.6	8.2	NA	NA	10.8	7.5	NA	NA
Fractional Organic Carbon	%	NA	NA	NA	3	1.3	NA	NA	NA	NA
Organic Carbon Content	%	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Inorganics										
Aluminum	mg/kg	NA	NA	NA	NA	NA	NA	5,400	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	59	2.3 U	NA
Arsenic	mg/kg	NA	4.8	9.5	NA	NA	15	18	2.9	NA
Barium	mg/kg	NA	84	82	NA	NA	62	220	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	0.91	NA	NA
Cadmium	mg/kg	NA	0.59 U	0.57 U	NA	NA	0.55 U	1.1	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	NA	NA	16,000	NA	NA
Chromium	mg/kg	NA	23	25	NA	NA	24	20	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	6.4	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	2,200	NA	NA
Cyanide	mg/kg	NA	NA	NA	NA	NA	NA	0.28 U	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA	NA	86,000	19,000	NA
Lead	mg/kg	NA	14	18	NA	NA	200	1,100	14	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA	NA	4,600	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	630	NA	NA
Mercury	mg/kg	NA	0.028 U	0.03 U	NA	NA	0.17	0.38	0.03	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	16	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA	NA	690	NA	NA
Selenium	mg/kg	NA	1.2 U	1.1 U	NA	NA	1.1 U	2.2	NA	NA
Silver	mg/kg	NA	1.2 U	1.1 U	NA	NA	1.1 U	1.2	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	NA	NA	460	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	1.1 U	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	26	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	450	NA	NA
TCLP Metals										
Arsenic, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	6- 9	3- 6	6- 9	0- 3	3- 6	0- 3	3- 6	6- 9	9- 12
Pesticides										
4,4'-DDD	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
4,4'-DDE	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
4,4'-DDT	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Aldrin	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
alpha-BHC	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
beta-BHC	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Chlordane (Technical)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
delta-BHC	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Dieldrin	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Endosulfan I	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Endosulfan II	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Endosulfan sulfate	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Endrin	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Endrin aldehyde	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Endrin ketone	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
gamma-BHC (Lindane)	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Heptachlor	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Heptachlor epoxide	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Methoxychlor	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
Toxaphene	mg/kg	NA	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA
PCBS										
PCB-1016 (Aroclor 1016)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
PCB-1221 (Aroclor 1221)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
PCB-1232 (Aroclor 1232)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
PCB-1242 (Aroclor 1242)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
PCB-1248 (Aroclor 1248)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
PCB-1254 (Aroclor 1254)	mg/kg	NA	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA
PCB-1260 (Aroclor 1260)	mg/kg	NA	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA
Herbicides										
2,4,5-T	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dalapon	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Picloram	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
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	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
Chemical Name	Depth Interval (ft bgs)	6- 9	3- 6	6- 9	0- 3	3- 6	0- 3	3- 6	6- 9	9- 12
VOCs										
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,1,2-Trichloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,1-Dichloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,1-Dichloroethene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	2	0.005 U
1,1-Dichloropropene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	0.019	NA	NA	NA	NA	NA
1,2-Dibromoethane (EDB)	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,2-Dichloropropane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	0.0053	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,3-Dichloropropane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,4-Difluorobenzene	mg/kg	NA	0.05	0.07	NA	NA	NA	NA	0.05	0.05
2,2-Dichloropropane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
2-Butanone (MEK)	mg/kg	NA	0.005 U	0.005 U	0.022 U	NA	NA	NA	0.005 U	0.005 U
2-Chlorotoluene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	0.005 U	0.005 U	0.088 U	NA	NA	NA	0.005 U	0.005 U
4-Chlorotoluene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (MIBK)	mg/kg	NA	0.005 U	0.005 U	0.022 U	NA	NA	NA	0.005 U	0.005 U
Acetone	mg/kg	NA	0.05 U	0.05 U	0.088 U	NA	NA	NA	0.05 U	0.05 U
Acrolein	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Benzene	mg/kg	NA	0.005 U	0.005 U	0.0018 J	NA	NA	NA	0.005 U	0.005 U
Bromobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	NA	0.002 U	0.002 U	0.0044 U	NA	NA	NA	0.002 U	0.002 U
Bromoform	mg/kg	NA	0.002 U	0.002 U	0.0044 U	NA	NA	NA	0.002 U	0.002 U
Bromomethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Carbon disulfide	mg/kg	NA	0.005 U	0.005 U	0.0088 U	NA	NA	NA	0.005 U	0.005 U
Carbon tetrachloride	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	6- 9	3- 6	6- 9	0- 3	3- 6	0- 3	3- 6	6- 9	9- 12
Chlorobenzene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Chloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.3
Chloroform	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Chloromethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
cis-1,2-Dichloroethene	mg/kg	NA	0.005 U	1	0.0044 U	NA	NA	NA	872	20
cis-1,3-Dichloropropene	mg/kg	NA	0.002 U	0.002 U	0.0044 U	NA	NA	NA	0.002 U	0.002 U
Dibromochloromethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Dibromomethane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Ethyl methacrylate	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Iodomethane	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	mg/kg	NA	NA	NA	0.005	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	0.005 U	0.005 U	0.018 U	NA	NA	NA	0.005 U	0.005 U
Methyl-tert-butyl ether	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Naphthalene, VOC	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
n-Hexane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	NA	NA	NA	0.0045	NA	NA	NA	NA	NA
Pentafluorobenzene	mg/kg	NA	0.05	0.07	NA	NA	NA	NA	0.05	0.05
p-Isopropyltoluene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Styrene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
tert-Butylbenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	5	0.005 U
Toluene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
trans-1,2-Dichloroethene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	15	0.005 U
trans-1,3-Dichloropropene	mg/kg	NA	0.002 U	0.002 U	0.0044 U	NA	NA	NA	0.002 U	0.002 U
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	0.01	2	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Trichlorofluoromethane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Vinyl acetate	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Vinyl chloride	mg/kg	NA	0.002 U	0.002 U	0.0044 U	NA	NA	NA	10	0.2
Xylene (Total)	mg/kg	NA	0.005 U	0.005 U	0.049	NA	NA	NA	0.005 U	0.005 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
Chemical Name	Depth Interval (ft bgs)	6- 9	3- 6	6- 9	0- 3	3- 6	0- 3	3- 6	6- 9	9- 12
SVOCs										
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	0.66 U	NA	NA	0.66 U
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	0.66 U	NA	NA	0.66 U
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	0.66 U	NA	NA	0.66 U
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	0.66 U	NA	NA	0.66 U
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	0.41 U	NA	0.22 U	NA	NA	0.22 U
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	0.41 U	NA	0.06 U	NA	NA	0.06 U
2,4-Dichlorophenol	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
2,4-Dimethylphenol	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
2,4-Dinitrophenol	mg/kg	NA	NA	NA	2 U	NA	0.66 U	NA	NA	0.66 U
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	0.41 U	NA	0.21 U	NA	NA	0.21 U
2,6-Dinitrotoluene	mg/kg	NA	NA	NA	0.41 U	NA	0.1 U	NA	NA	0.1 U
2-Chloronaphthalene	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
2-Chlorophenol	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
2-Methylnaphthalene	mg/kg	NA	NA	NA	0.41 U	NA	0.12 U	NA	NA	0.12 U
2-Methylphenol(o-Cresol)	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
2-Nitroaniline	mg/kg	NA	NA	NA	2 U	NA	3.3 U	NA	NA	3.3 U
2-Nitrophenol	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	NA	NA	0.82 U	NA	0.83 U	NA	NA	0.83 U
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	0.82 U	NA	0.11 U	NA	NA	0.11 U
3-Nitroaniline	mg/kg	NA	NA	NA	2 U	NA	3.3 U	NA	NA	3.3 U
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	2 U	NA	2 U	NA	NA	2 U
4-Bromophenylphenyl ether	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
4-Chloro-3-methylphenol	mg/kg	NA	NA	NA	0.82 U	NA	1.3 U	NA	NA	1.3 U
4-Chloroaniline	mg/kg	NA	NA	NA	0.82 U	NA	0.33 U	NA	NA	0.33 U
4-Chlorophenylphenyl ether	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
4-Nitroaniline	mg/kg	NA	NA	NA	2 U	NA	3.3 U	NA	NA	3.3 U
4-Nitrophenol	mg/kg	NA	NA	NA	2 U	NA	3.3 U	NA	NA	3.3 U
Acenaphthene	mg/kg	NA	0.05 U	0.05 U	0.41 UJ	NA	0.15 U	0.13	NA	0.15 U
Acenaphthylene	mg/kg	NA	0.05 U	0.05 U	0.41 UJ	NA	0.07 U	0.1	NA	0.07 U
Anthracene	mg/kg	NA	0.08 U	0.08 U	0.41 U	NA	0.36	0.87	NA	0.3 U
Benzo(a)anthracene	mg/kg	NA	0.008 U	0.008 U	0.41 UJ	NA	1.28	2.83	NA	0.07 U
Benzo(a)pyrene	mg/kg	NA	0.02 U	0.02 U	0.41 U	NA	1.15	2.77	NA	0.07 U
Benzo(b)fluoranthene	mg/kg	NA	0.01 U	0.01 U	0.41 U	NA	1.57	3.48	NA	0.06 U
Benzo(g,h,i)perylene	mg/kg	NA	0.02 U	0.02 U	0.41 U	NA	0.6	1.7	NA	0.12 U
Benzo(k)fluoranthene	mg/kg	NA	0.01 U	0.01 U	0.41 U	NA	0.68	0.97	NA	0.12 U
Benzyl alcohol	mg/kg	NA	NA	NA	0.82 U	NA	1.3 U	NA	NA	1.3 U
bis(2chloro1methylethyl) ether	mg/kg	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
Chemical Name	Depth Interval (ft bgs)	6- 9	3- 6	6- 9	0- 3	3- 6	0- 3	3- 6	6- 9	9- 12
bis(2-Chloroethoxy)methane	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
bis(2-Chloroethyl) ether	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Bis(2-chloroisopropyl)ether	mg/kg	NA	NA	NA	NA	NA	0.66 U	NA	NA	0.66 U
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Butylbenzylphthalate	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Carbazole	mg/kg	NA	NA	NA	NA	NA	0.13 U	NA	NA	0.13 U
Chrysene	mg/kg	NA	0.05 U	0.05 U	0.41 UJ	NA	1.67	2.58	NA	0.09 U
Dibenz(a,h)anthracene	mg/kg	NA	0.02 U	0.02 U	0.41 U	NA	0.11 U	0.1	NA	0.11 U
Dibenzofuran	mg/kg	NA	NA	NA	0.41 U	NA	0.22 U	NA	NA	0.22 U
Diethylphthalate	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Dimethylphthalate	mg/kg	NA	NA	NA	0.41 U	NA	3.3 U	NA	NA	3.3 U
Di-n-butylphthalate	mg/kg	NA	NA	NA	0.41 U	NA	0.5 U	NA	NA	0.5 U
Di-n-octylphthalate	mg/kg	NA	NA	NA	0.41 U	NA	0.86 U	NA	NA	0.86 U
Fluoranthene	mg/kg	NA	0.05 U	0.05 U	0.41 U	NA	2.33	4.95	NA	0.09 U
Fluorene	mg/kg	NA	0.03 U	0.03 U	0.41 UJ	NA	0.14 U	0.18	NA	0.14 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Hexachlorobenzene	mg/kg	NA	NA	NA	0.41 U	NA	0.07 U	NA	NA	0.07 U
Hexachlorocyclopentadiene	mg/kg	NA	NA	NA	0.41 U	NA	0.17 U	NA	NA	0.17 U
Hexachloroethane	mg/kg	NA	NA	NA	0.41 U	NA	0.13 U	NA	NA	0.13 U
Indeno(1,2,3-cd)pyrene	mg/kg	NA	0.02 U	0.02 U	0.41 U	NA	0.48	1.43	NA	0.13 U
Isophorone	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Naphthalene	mg/kg	NA	0.05 U	0.05 U	0.41 U	NA	0.09 U	0.25	NA	0.09 U
Nitrobenzene	mg/kg	NA	NA	NA	0.41 U	NA	0.24 U	NA	NA	0.24 U
N-Nitroso-di-n-propylamine	mg/kg	NA	NA	NA	0.41 U	NA	0.02 U	NA	NA	0.02 U
N-Nitrosodiphenylamine	mg/kg	NA	NA	NA	0.41 U	NA	0.67 U	NA	NA	0.67 U
Pentachlorophenol	mg/kg	NA	NA	NA	2 U	NA	0.03 U	NA	NA	0.03 U
Phenanthrene	mg/kg	NA	0.03 U	0.03 U	0.41 U	NA	1.66	3.04	NA	0.12 U
Phenol	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Pyrene	mg/kg	NA	0.05 U	0.05 U	0.22 J	NA	2.45	4.7	NA	0.07 U
Petroleum Hydrocarbons										
TPH (C06-C10)	mg/kg	20.3	NA	NA	NA	NA	NA	NA	NA	NA
TPH-DRO (C10-C28)	mg/kg	29	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
pH	SU	11.8	7.8	NA	NA	NA	NA	8.3	8	8.4
Fractional Organic Carbon	%	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organic Carbon Content	%	2.8	NA	NA	NA	NA	NA	NA	NA	NA
Total Inorganics										
Aluminum	mg/kg	2,800	4,500	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/kg	17	26	2.3 U	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	5.4	17	4.6	NA	NA	NA	14	29	5
Barium	mg/kg	51	180	NA	NA	NA	NA	130	230	NA
Beryllium	mg/kg	0.5 U	1.1	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	0.5 U	1.8	NA	NA	NA	NA	1.6	3.6	NA
Calcium	mg/kg	69,000	27,000	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	9.4	18	NA	NA	NA	NA	22	46	24
Cobalt	mg/kg	3	5.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	490	580	NA	NA	NA	NA	NA	NA	NA
Cyanide	mg/kg	0.26 U	0.3 U	NA	NA	NA	NA	NA	NA	NA
Iron	mg/kg	27,000	25,000	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	160	840	15	NA	NA	NA	910	2,800	18
Magnesium	mg/kg	24,000	5,900	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	410	260	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	0.068	0.42	0.031	NA	NA	NA	0.82	3	0.03
Nickel	mg/kg	11	17	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/kg	390	1,200	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	1 U	7.2	1.2 U	NA	NA	NA	1.1 U	1.3	NA
Silver	mg/kg	1 U	1 U	NA	NA	NA	NA	1.1 U	2.5	NA
Sodium	mg/kg	120	430	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	12	23	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	99	320	NA	NA	NA	NA	NA	NA	NA
TCLP Metals										
Arsenic, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA
Barium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.88	NA
Cadmium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.008	NA
Chromium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA
Lead, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.43	NA
Mercury, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.0002 U	NA
Selenium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA
Silver, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
Chemical Name	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
Pesticides										
4,4'-DDD	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
4,4'-DDE	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
4,4'-DDT	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Aldrin	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
alpha-BHC	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
beta-BHC	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
Chlordane (Technical)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
delta-BHC	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
Dieldrin	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Endosulfan I	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
Endosulfan II	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Endosulfan sulfate	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Endrin	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Endrin aldehyde	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Endrin ketone	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
gamma-BHC (Lindane)	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.04	0.008 U	NA
Heptachlor	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
Heptachlor epoxide	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
Methoxychlor	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
Toxaphene	mg/kg	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA
PCBS										
PCB-1016 (Aroclor 1016)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
PCB-1221 (Aroclor 1221)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
PCB-1232 (Aroclor 1232)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
PCB-1242 (Aroclor 1242)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
PCB-1248 (Aroclor 1248)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
PCB-1254 (Aroclor 1254)	mg/kg	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA
PCB-1260 (Aroclor 1260)	mg/kg	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA
Herbicides										
2,4,5-T	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dalapon	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Picloram	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
Chemical Name	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
VOCs										
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,1,2-Trichloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,1-Dichloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene	mg/kg	NA	0.005 U	0.005 U	4	0.019 J	NA	0.005 U	0.005 U	0.005 U
1,1-Dichloropropene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2-Dibromoethane (EDB)	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,2-Dichloropropane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,3-Dichloropropane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,4-Difluorobenzene	mg/kg	NA	0.07	NA	0.06	NA	NA	0.05	0.05	NA
2,2-Dichloropropane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
2-Butanone (MEK)	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.024 U	NA	0.005 U	0.005 U	0.005 U
2-Chlorotoluene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.095 U	NA	0.005 U	0.005 U	0.005 U
4-Chlorotoluene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
4-Methyl-2-pentanone (MIBK)	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.024 U	NA	0.005 U	0.005 U	0.005 U
Acetone	mg/kg	NA	0.05 U	0.05 U	0.05 U	0.095 U	NA	0.05 U	0.05 U	0.05 U
Acrolein	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Acrylonitrile	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Benzene	mg/kg	NA	0.4	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Bromobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Bromochloromethane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Bromodichloromethane	mg/kg	NA	0.002 U	0.002 U	0.002 U	0.0047 U	NA	0.002 U	0.002 U	0.002 U
Bromoform	mg/kg	NA	0.002 U	0.002 U	0.002 U	0.0047 U	NA	0.002 U	0.002 U	0.002 U
Bromomethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Carbon disulfide	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0095 U	NA	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
Chlorobenzene	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Chloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Chloroform	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Chloromethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	mg/kg	NA	8	942	990	56.6 J	NA	0.02	0.1	0.005 U
cis-1,3-Dichloropropene	mg/kg	NA	0.002 U	0.002 U	0.002 U	0.0047 U	NA	0.002 U	0.002 U	0.002 U
Dibromochloromethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Dibromomethane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Ethyl methacrylate	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Ethylbenzene	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Iodomethane	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Isopropylbenzene (Cumene)	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.019 U	NA	0.005 U	0.005 U	0.005 U
Methyl-tert-butyl ether	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Naphthalene, VOC	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
n-Butylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
n-Hexane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
n-Propylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Pentafluorobenzene	mg/kg	NA	0.07	NA	0.06	NA	NA	0.05	0.05	NA
p-Isopropyltoluene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Styrene	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
tert-Butylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	0.5	0.005 U	14	0.017 J	NA	0.005 U	0.005 U	0.005 U
Toluene	mg/kg	NA	0.3	0.005 U	0.005 U	0.0027 J	NA	0.005 U	0.005 U	0.005 U
trans-1,2-Dichloroethene	mg/kg	NA	0.005 U	7.34	14	0.054 J	NA	0.005 U	0.005 U	0.005 U
trans-1,3-Dichloropropene	mg/kg	NA	0.002 U	0.002 U	0.002 U	0.0047 U	NA	0.002 U	0.002 U	0.002 U
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	73	0.005 U	0.005 U	803 J	NA	0.08	1	0.02
Trichlorofluoromethane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Vinyl acetate	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Vinyl chloride	mg/kg	NA	26	44.2	0.002 U	3 J	NA	0.002 U	0.002 U	0.02
Xylene (Total)	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0095 U	NA	0.005 U	0.01	0.005 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
SVOCs										
1,2,4-Trichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
1,2-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
1,3-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
1,4-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2,4,5-Trichlorophenol	mg/kg	NA	0.22 U	0.22 U	NA	NA	NA	0.22 U	0.22 U	NA
2,4,6-Trichlorophenol	mg/kg	NA	0.06 U	0.06 U	NA	NA	NA	0.06 U	0.06 U	NA
2,4-Dichlorophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2,4-Dimethylphenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2,4-Dinitrophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2,4-Dinitrotoluene	mg/kg	NA	0.21 U	0.21 U	NA	NA	NA	0.21 U	0.21 U	NA
2,6-Dinitrotoluene	mg/kg	NA	0.1 U	0.1 U	NA	NA	NA	0.1 U	0.1 U	NA
2-Chloronaphthalene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2-Chlorophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2-Methylnaphthalene	mg/kg	NA	0.64	0.12 U	NA	NA	NA	0.19	0.12 U	NA
2-Methylphenol(o-Cresol)	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	NA	3.3 U	3.3 U	NA
2-Nitrophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	0.83 U	0.83 U	NA	NA	NA	0.83 U	0.83 U	NA
3,3'-Dichlorobenzidine	mg/kg	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA
3-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	NA	3.3 U	3.3 U	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	2 U	2 U	NA	NA	NA	2 U	2 U	NA
4-Bromophenylphenyl ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
4-Chloro-3-methylphenol	mg/kg	NA	1.3 U	1.3 U	NA	NA	NA	1.3 U	1.3 U	NA
4-Chloroaniline	mg/kg	NA	0.33 U	0.33 U	NA	NA	NA	0.33 U	0.33 U	NA
4-Chlorophenylphenyl ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
4-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	NA	3.3 U	3.3 U	NA
4-Nitrophenol	mg/kg	NA	3.3 U	3.3 U	NA	NA	NA	3.3 U	3.3 U	NA
Acenaphthene	mg/kg	0.05 U	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA
Acenaphthylene	mg/kg	0.05 U	0.07 U	0.07 U	NA	NA	NA	0.07 U	0.07 U	NA
Anthracene	mg/kg	0.08 U	0.39	0.3 U	NA	NA	NA	0.73	0.3 U	NA
Benzo(a)anthracene	mg/kg	0.12	1.07	0.07 U	NA	NA	NA	2.42	0.21	NA
Benzo(a)pyrene	mg/kg	0.11	1.1	0.07 U	NA	NA	NA	2.21	0.29	NA
Benzo(b)fluoranthene	mg/kg	0.15	1.2	0.06 U	NA	NA	NA	2.67	0.36	NA
Benzo(g,h,i)perylene	mg/kg	0.17	0.69	0.12 U	NA	NA	NA	0.99	0.25	NA
Benzo(k)fluoranthene	mg/kg	0.07	0.4	0.12 U	NA	NA	NA	0.81	0.16	NA
Benzyl alcohol	mg/kg	NA	1.3 U	1.3 U	NA	NA	NA	1.3 U	1.3 U	NA
bis(2chloro1methylethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
bis(2-Chloroethoxy)methane	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
bis(2-Chloroethyl) ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Bis(2-chloroisopropyl)ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Butylbenzylphthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Carbazole	mg/kg	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA
Chrysene	mg/kg	0.11	0.97	0.09 U	NA	NA	NA	2.2	0.25	NA
Dibenz(a,h)anthracene	mg/kg	0.02 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA
Dibenzofuran	mg/kg	NA	0.22 U	0.22 U	NA	NA	NA	0.22 U	0.22 U	NA
Diethylphthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Dimethylphthalate	mg/kg	NA	3.3 U	3.3 U	NA	NA	NA	3.3 U	3.3 U	NA
Di-n-butylphthalate	mg/kg	NA	0.5 U	0.5 U	NA	NA	NA	0.5 U	0.5 U	NA
Di-n-octylphthalate	mg/kg	NA	0.86 U	0.86 U	NA	NA	NA	0.86 U	0.86 U	NA
Fluoranthene	mg/kg	0.21	1.9	0.09 U	NA	NA	NA	4.26	0.3	NA
Fluorene	mg/kg	0.03 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA
Hexachloro-1,3-butadiene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Hexachlorobenzene	mg/kg	NA	0.07 U	0.07 U	NA	NA	NA	0.07 U	0.07 U	NA
Hexachlorocyclopentadiene	mg/kg	NA	0.17 U	0.17 U	NA	NA	NA	0.17 U	0.17 U	NA
Hexachloroethane	mg/kg	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA
Indeno(1,2,3-cd)pyrene	mg/kg	0.12	0.46	0.13 U	NA	NA	NA	0.88	0.19	NA
Isophorone	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Naphthalene	mg/kg	0.05 U	0.49	0.09 U	NA	NA	NA	0.25	0.09 U	NA
Nitrobenzene	mg/kg	NA	0.24 U	0.24 U	NA	NA	NA	0.24 U	0.24 U	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
N-Nitrosodiphenylamine	mg/kg	NA	0.67 U	0.67 U	NA	NA	NA	0.67 U	0.67 U	NA
Pentachlorophenol	mg/kg	NA	0.03 U	0.03 U	NA	NA	NA	0.03 U	0.03 U	NA
Phenanthrene	mg/kg	0.08	1.86	0.12 U	NA	NA	NA	3.95	0.12 U	NA
Phenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Pyrene	mg/kg	0.19	2.57	0.07 U	NA	NA	NA	5.47	0.44	NA
Petroleum Hydrocarbons										
TPH (C06-C10)	mg/kg	NA	NA	NA	NA	NA	1,720	NA	NA	NA
TPH-DRO (C10-C28)	mg/kg	NA	NA	NA	NA	NA	43.6 J	NA	NA	NA

Table D-1
Soil Analytical Results
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Chemical Name	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
pH	SU	NA	8.5	7.7	NA	NA	NA	8.8
Fractional Organic Carbon	%	NA	NA	NA	NA	NA	1.4	NA
Organic Carbon Content	%	NA	NA	NA	4.1	NA	NA	NA
Total Inorganics								
Aluminum	mg/kg	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	12	5.3	NA	NA	NA	5.8
Barium	mg/kg	NA	220	76	NA	NA	NA	200
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	0.78	1.8	NA	NA	NA	0.8
Calcium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	33	8.7	NA	NA	NA	19
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cyanide	mg/kg	NA	NA	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	180	36	NA	NA	NA	140
Magnesium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	0.15	0.034 U	NA	NA	NA	0.063
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	1.1 U	1.7	NA	NA	NA	1.1 U
Silver	mg/kg	NA	1.1 U	1.3 U	NA	NA	NA	1.1 U
Sodium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA
TCLP Metals								
Arsenic, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Mercury, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Selenium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Silver, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
Pesticides								
4,4'-DDD	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
4,4'-DDE	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
4,4'-DDT	mg/kg	NA	0.11	NA	NA	NA	NA	NA
Aldrin	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
alpha-BHC	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
beta-BHC	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Chlordane (Technical)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
delta-BHC	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Dieldrin	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
Endosulfan I	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Endosulfan II	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
Endosulfan sulfate	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
Endrin	mg/kg	NA	0.07	NA	NA	NA	NA	NA
Endrin aldehyde	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
Endrin ketone	mg/kg	NA	0.05	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Heptachlor	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Heptachlor epoxide	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Methoxychlor	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
Toxaphene	mg/kg	NA	0.16 U	NA	NA	NA	NA	NA
PCBS								
PCB-1016 (Aroclor 1016)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	mg/kg	NA	0.16 U	NA	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	mg/kg	NA	0.16 U	NA	NA	NA	NA	NA
Herbicides								
2,4,5-T	mg/kg	NA	0.01 U	NA	NA	NA	NA	0.01 U
2,4,5-TP (Silvex)	mg/kg	NA	0.01 U	NA	NA	NA	NA	0.01 U
2,4-D	mg/kg	NA	0.01 U	NA	NA	NA	NA	0.01 U
Dalapon	mg/kg	NA	0.05 U	NA	NA	NA	NA	0.05 U
Dinoseb	mg/kg	NA	0.02 U	NA	NA	NA	NA	0.02 U
Picloram	mg/kg	NA	0.01 U	NA	NA	NA	NA	0.01 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
VOCs								
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,1,2-Trichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,1-Dichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,1-Dichloroethene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,1-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (EDB)	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,2-Dichloropropane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,4-Difluorobenzene	mg/kg	NA	0.06	0.08	NA	NA	NA	0.06
2,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
2-Chlorotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
4-Chlorotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (MIBK)	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Acetone	mg/kg	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA
Acrolein	mg/kg	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	0.005 U	0.005 U	0.007	0.008	0.005 U	NA	0.005 U
Bromobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA
Bromoform	mg/kg	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA
Bromomethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Carbon disulfide	mg/kg	0.005 U	0.01	0.02	0.005 U	0.005 U	NA	NA
Carbon tetrachloride	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
Chlorobenzene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Chloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Chloroform	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Chloromethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
cis-1,2-Dichloroethene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
cis-1,3-Dichloropropene	mg/kg	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA
Dibromochloromethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Dibromomethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Ethyl methacrylate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	mg/kg	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Methyl-tert-butyl ether	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Naphthalene, VOC	mg/kg	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
n-Hexane	mg/kg	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Pentafluorobenzene	mg/kg	NA	0.06	0.08	NA	NA	NA	0.06
p-Isopropyltoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
tert-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	0.08	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Toluene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U
trans-1,2-Dichloroethene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
trans-1,3-Dichloropropene	mg/kg	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	0.005 U	0.03	0.04	0.009	0.005 U	NA	NA
Trichlorofluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	mg/kg	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA
Xylene (Total)	mg/kg	0.005 U	0.005 U	0.008	0.005 U	0.005 U	NA	0.005 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
Chemical Name	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
SVOCs								
1,2,4-Trichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	0.22 U	0.22 U	NA	NA	0.4 U	NA
2,4,6-Trichlorophenol	mg/kg	NA	0.06 U	0.06 U	NA	NA	0.4 U	NA
2,4-Dichlorophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
2,4-Dimethylphenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
2,4-Dinitrophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	1.9 U	NA
2,4-Dinitrotoluene	mg/kg	NA	0.21 U	0.21 U	NA	NA	0.4 U	NA
2,6-Dinitrotoluene	mg/kg	NA	0.1 U	0.1 U	NA	NA	0.4 U	NA
2-Chloronaphthalene	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
2-Chlorophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
2-Methylnaphthalene	mg/kg	NA	0.12 U	0.4	NA	NA	0.4 U	NA
2-Methylphenol(o-Cresol)	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
2-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	1.9 U	NA
2-Nitrophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	0.83 U	0.83 U	NA	NA	0.79 U	NA
3,3'-Dichlorobenzidine	mg/kg	NA	0.11 U	0.11 U	NA	NA	0.79 U	NA
3-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	1.9 U	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	2 U	2 U	NA	NA	1.9 U	NA
4-Bromophenylphenyl ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
4-Chloro-3-methylphenol	mg/kg	NA	1.3 U	1.3 U	NA	NA	0.79 U	NA
4-Chloroaniline	mg/kg	NA	0.33 U	0.33 U	NA	NA	0.79 U	NA
4-Chlorophenylphenyl ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
4-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	1.9 U	NA
4-Nitrophenol	mg/kg	NA	3.3 U	3.3 U	NA	NA	1.9 U	NA
Acenaphthene	mg/kg	NA	0.15 U	0.15 U	0.05 U	NA	0.4 UJ	0.67
Acenaphthylene	mg/kg	NA	0.07 U	0.07 U	0.05 U	NA	0.4 UJ	0.35
Anthracene	mg/kg	NA	0.41	0.43	0.08 U	NA	0.4 U	2.47
Benzo(a)anthracene	mg/kg	NA	1.76	1.65	0.008 U	NA	0.4 UJ	9.27
Benzo(a)pyrene	mg/kg	NA	1.91	1.88	0.02 U	NA	0.4 U	9.36
Benzo(b)fluoranthene	mg/kg	NA	2.24	2.03	0.01 U	NA	0.4 U	11.5
Benzo(g,h,i)perylene	mg/kg	NA	1.21	1.21	0.02 U	NA	0.4 U	4.63
Benzo(k)fluoranthene	mg/kg	NA	0.66	0.75	0.01 U	NA	0.4 U	3.95
Benzyl alcohol	mg/kg	NA	1.3 U	1.3 U	NA	NA	0.79 U	NA
bis(2chloro1methylethyl) ether	mg/kg	NA	NA	NA	NA	NA	0.4 U	NA

Table D-1
Soil Analytical Results
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	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
Chemical Name	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
bis(2-Chloroethoxy)methane	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
bis(2-Chloroethyl) ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Bis(2-chloroisopropyl)ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Butylbenzylphthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Carbazole	mg/kg	NA	0.13 U	0.13 U	NA	NA	NA	NA
Chrysene	mg/kg	NA	1.95	1.53	0.05 U	NA	0.4 UJ	8.17
Dibenz(a,h)anthracene	mg/kg	NA	0.11 U	0.11 U	0.02 U	NA	0.4 U	0.35
Dibenzofuran	mg/kg	NA	0.22 U	0.22 U	NA	NA	0.4 U	NA
Diethylphthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Dimethylphthalate	mg/kg	NA	3.3 U	3.3 U	NA	NA	0.4 U	NA
Di-n-butylphthalate	mg/kg	NA	0.5 U	0.5 U	NA	NA	0.4 U	NA
Di-n-octylphthalate	mg/kg	NA	0.86 U	0.86 U	NA	NA	0.4 U	NA
Fluoranthene	mg/kg	NA	3.38	3.25	0.05 U	NA	0.4 U	17.6
Fluorene	mg/kg	NA	0.14 U	0.14 U	0.03 U	NA	0.4 UJ	0.78
Hexachloro-1,3-butadiene	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Hexachlorobenzene	mg/kg	NA	0.07 U	0.07 U	NA	NA	0.4 U	NA
Hexachlorocyclopentadiene	mg/kg	NA	0.17 U	0.17 U	NA	NA	0.4 U	NA
Hexachloroethane	mg/kg	NA	0.13 U	0.13 U	NA	NA	0.4 U	NA
Indeno(1,2,3-cd)pyrene	mg/kg	NA	0.82	0.87	0.02 U	NA	0.4 U	4.29
Isophorone	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Naphthalene	mg/kg	NA	0.09 U	0.37	0.05 U	NA	0.4 U	0.41
Nitrobenzene	mg/kg	NA	0.24 U	0.24 U	NA	NA	0.4 U	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	0.02 U	0.02 U	NA	NA	0.4 U	NA
N-Nitrosodiphenylamine	mg/kg	NA	0.67 U	0.67 U	NA	NA	0.4 U	NA
Pentachlorophenol	mg/kg	NA	0.03 U	0.03 U	NA	NA	1.9 U	NA
Phenanthrene	mg/kg	NA	2.25	2.51	0.03 U	NA	0.4 U	7.63
Phenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Pyrene	mg/kg	NA	4.56	4.77	0.05 U	NA	0.4 U	15.2
Petroleum Hydrocarbons								
TPH (C06-C10)	mg/kg	NA	NA	NA	NA	NA	NA	NA
TPH-DRO (C10-C28)	mg/kg	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
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Chemical Name	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
pH	SU	NA	NA	NA	NA	NA	NA	NA
Fractional Organic Carbon	%	NA	NA	NA	NA	NA	NA	NA
Organic Carbon Content	%	NA	NA	NA	NA	NA	NA	NA
Total Inorganics								
Aluminum	mg/kg	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cyanide	mg/kg	NA	NA	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA
TCLP Metals								
Arsenic, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Mercury, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Selenium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Silver, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
Chemical Name	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
Pesticides								
4,4'-DDD	mg/kg	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	mg/kg	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	mg/kg	NA	NA	NA	NA	NA	NA	NA
Aldrin	mg/kg	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	mg/kg	NA	NA	NA	NA	NA	NA	NA
beta-BHC	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chlordane (Technical)	mg/kg	NA	NA	NA	NA	NA	NA	NA
delta-BHC	mg/kg	NA	NA	NA	NA	NA	NA	NA
Dieldrin	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endrin	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	mg/kg	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	mg/kg	NA	NA	NA	NA	NA	NA	NA
Heptachlor	mg/kg	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	mg/kg	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	mg/kg	NA	NA	NA	NA	NA	NA	NA
Toxaphene	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCBS								
PCB-1016 (Aroclor 1016)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	mg/kg	NA	NA	NA	NA	NA	NA	NA
Herbicides								
2,4,5-T	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4-D	mg/kg	NA	NA	NA	NA	NA	NA	NA
Dalapon	mg/kg	NA	NA	NA	NA	NA	NA	NA
Dinoseb	mg/kg	NA	NA	NA	NA	NA	NA	NA
Picloram	mg/kg	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
VOCs								
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,1,1-Trichloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,1,2-Trichloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,1-Dichloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,1-Dichloroethene	mg/kg	NA	NA	NA	0.35 J	0.18 J	0.32 J	0.081
1,1-Dichloropropene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2,3-Trichloropropane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	0.018 J	0.012 J	0.012 J	0.0062 U
1,2-Dibromoethane (EDB)	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2-Dichloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2-Dichloropropane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	0.0061 J	0.004 J	0.0036 J	0.0062 U
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,3-Dichloropropane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,4-Difluorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
2-Butanone (MEK)	mg/kg	NA	NA	NA	0.022 U	0.024 U	0.022 U	0.031 U
2-Chlorotoluene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
2-Hexanone	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
4-Chlorotoluene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
4-Methyl-2-pentanone (MIBK)	mg/kg	NA	NA	NA	0.022 U	0.024 U	0.022 U	0.031 U
Acetone	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Acrolein	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Acrylonitrile	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Benzene	mg/kg	NA	NA	NA	0.0045 U	0.0015 J	0.0044 U	0.0062 U
Bromobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Bromochloromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Bromodichloromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Bromoform	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Bromomethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Carbon disulfide	mg/kg	NA	NA	NA	0.009 U	0.0095 U	0.0089 U	0.012 U
Carbon tetrachloride	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
Chlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Chloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Chloroform	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Chloromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
cis-1,2-Dichloroethene	mg/kg	NA	NA	NA	2.6 J	0.28 J	6.3 J	0.19
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Dibromochloromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Dibromomethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Dichlorodifluoromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Ethyl methacrylate	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Ethylbenzene	mg/kg	NA	NA	NA	0.008 J	0.0038 J	0.0056 J	0.0062 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Iodomethane	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Isopropylbenzene (Cumene)	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Methylene Chloride	mg/kg	NA	NA	NA	0.018 U	0.019 U	0.018 U	0.025 U
Methyl-tert-butyl ether	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Naphthalene, VOC	mg/kg	NA	NA	NA	0.0032 J	0.0039 J	0.0046 J	0.0062 U
n-Butylbenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
n-Hexane	mg/kg	NA	NA	NA	0.013 J	0.0079 J	0.0098 J	0.0062 U
n-Propylbenzene	mg/kg	NA	NA	NA	0.0059 J	0.0029 J	0.0037 J	0.0062 U
Pentafluorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
sec-Butylbenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Styrene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
tert-Butylbenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Tetrachloroethene	mg/kg	NA	NA	NA	4.1 J	0.28 J	2.7 J	0.0061 J
Toluene	mg/kg	NA	NA	NA	0.036 J	0.016 J	0.033 J	0.0031 J
trans-1,2-Dichloroethene	mg/kg	NA	NA	NA	0.028 J	0.011 J	0.036 J	0.0058 J
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Trichloroethene	mg/kg	NA	NA	NA	3,510 J	894 J	3,590 J	338
Trichlorofluoromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Vinyl acetate	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Vinyl chloride	mg/kg	NA	NA	NA	0.088 J	0.41 J	0.38 J	0.23
Xylene (Total)	mg/kg	NA	NA	NA	0.033 J	0.011 J	0.022 J	0.012 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
SVOCs								
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	0.21	0.11	0.14	NA	NA	NA	NA
2-Methylphenol(o-Cresol)	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Bromophenylphenyl ether	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenylphenyl ether	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	0.52	0.36	0.36	NA	NA	NA	NA
Acenaphthylene	mg/kg	0.096	0.095	0.12	NA	NA	NA	NA
Anthracene	mg/kg	1.2	0.89	0.94	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	2.2	2.1	2.4	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	2	1.9	2.2	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	1.9	2.1	2.4	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	1.2	1.3	1.5	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	1.8	1.7	2	NA	NA	NA	NA
Benzyl alcohol	mg/kg	NA	NA	NA	NA	NA	NA	NA
bis(2chloro1methylethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
bis(2-Chloroethoxy)methane	mg/kg	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	mg/kg	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	2.5	2.4	2.8	NA	NA	NA	NA
Dibenz(a,h)anthracene	mg/kg	0.66	0.66	0.77	NA	NA	NA	NA
Dibenzofuran	mg/kg	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	5.1	4.7	5.2	NA	NA	NA	NA
Fluorene	mg/kg	0.67	0.43	0.44	NA	NA	NA	NA
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	1.1	1.2	1.4	NA	NA	NA	NA
Isophorone	mg/kg	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	0.35	0.2	0.26	NA	NA	NA	NA
Nitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	4.6	3.5	3.9	NA	NA	NA	NA
Phenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	4.1	3.8	4.3	NA	NA	NA	NA
Petroleum Hydrocarbons								
TPH (C06-C10)	mg/kg	NA	NA	NA	NA	NA	NA	NA
TPH-DRO (C10-C28)	mg/kg	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
pH	SU	NA	NA	NA	NA	NA	NA
Fractional Organic Carbon	%	NA	NA	NA	NA	NA	NA
Organic Carbon Content	%	NA	NA	NA	NA	NA	NA
Total Inorganics							
Aluminum	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA
Cyanide	mg/kg	NA	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA
TCLP Metals							
Arsenic, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Barium, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Cadmium, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Chromium, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Lead, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Mercury, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Selenium, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Silver, TCLP	mg/L	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
Chemical Name	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
Pesticides							
4,4'-DDD	mg/kg	NA	NA	NA	NA	NA	NA
4,4'-DDE	mg/kg	NA	NA	NA	NA	NA	NA
4,4'-DDT	mg/kg	NA	NA	NA	NA	NA	NA
Aldrin	mg/kg	NA	NA	NA	NA	NA	NA
alpha-BHC	mg/kg	NA	NA	NA	NA	NA	NA
beta-BHC	mg/kg	NA	NA	NA	NA	NA	NA
Chlordane (Technical)	mg/kg	NA	NA	NA	NA	NA	NA
delta-BHC	mg/kg	NA	NA	NA	NA	NA	NA
Dieldrin	mg/kg	NA	NA	NA	NA	NA	NA
Endosulfan I	mg/kg	NA	NA	NA	NA	NA	NA
Endosulfan II	mg/kg	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	mg/kg	NA	NA	NA	NA	NA	NA
Endrin	mg/kg	NA	NA	NA	NA	NA	NA
Endrin aldehyde	mg/kg	NA	NA	NA	NA	NA	NA
Endrin ketone	mg/kg	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	mg/kg	NA	NA	NA	NA	NA	NA
Heptachlor	mg/kg	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	mg/kg	NA	NA	NA	NA	NA	NA
Methoxychlor	mg/kg	NA	NA	NA	NA	NA	NA
Toxaphene	mg/kg	NA	NA	NA	NA	NA	NA
PCBS							
PCB-1016 (Aroclor 1016)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	mg/kg	NA	NA	NA	NA	NA	NA
Herbicides							
2,4,5-T	mg/kg	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	mg/kg	NA	NA	NA	NA	NA	NA
2,4-D	mg/kg	NA	NA	NA	NA	NA	NA
Dalapon	mg/kg	NA	NA	NA	NA	NA	NA
Dinoseb	mg/kg	NA	NA	NA	NA	NA	NA
Picloram	mg/kg	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
VOCs							
1,1,1,2-Tetrachloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,1,1-Trichloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,1,2-Trichloroethane	mg/kg	0.0048 U	0.005 U	0.0041 J	0.0046 U	0.0045 U	0.0055 U
1,1-Dichloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,1-Dichloroethene	mg/kg	1.2 J	0.26	0.013	0.0046 U	0.0045 U	0.0055 U
1,1-Dichloropropene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2,3-Trichlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2,3-Trichloropropane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2,4-Trichlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2,4-Trimethylbenzene	mg/kg	0.05	0.028	0.0043 U	0.0046 U	4.1	0.06
1,2-Dibromoethane (EDB)	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2-Dichlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.042	0.0028 J
1,2-Dichloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2-Dichloropropane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,3,5-Trimethylbenzene	mg/kg	0.018	0.011	0.0043 U	0.0046 U	0.035	0.012
1,3-Dichlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,3-Dichloropropane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,4-Dichlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0084	0.0055 U
1,4-Difluorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
2-Butanone (MEK)	mg/kg	0.024 U	0.025 U	0.021 U	0.023 U	0.022 U	0.046
2-Chlorotoluene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
2-Hexanone	mg/kg	0.27	0.099 U	0.085 U	0.093 U	0.31	0.11 U
4-Chlorotoluene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
4-Methyl-2-pentanone (MIBK)	mg/kg	0.024 U	0.025 U	0.021 U	0.023 U	0.022 U	0.027 U
Acetone	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.16	0.093 J
Acrolein	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Acrylonitrile	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Benzene	mg/kg	0.0048 U	0.0039 J	0.0043 U	0.0046 U	0.0036 J	0.0055 U
Bromobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Bromochloromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Bromodichloromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Bromoform	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Bromomethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Carbon disulfide	mg/kg	0.0096 U	0.0027 J	0.0085 U	0.0093 U	0.0089 U	0.011 U
Carbon tetrachloride	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
Chemical Name	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
Chlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.092	0.0062
Chloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Chloroform	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Chloromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
cis-1,2-Dichloroethene	mg/kg	22.2	22.4	31.2	0.0046 U	0.0045 U	28.1
cis-1,3-Dichloropropene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Dibromochloromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Dibromomethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Dichlorodifluoromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Ethyl methacrylate	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Ethylbenzene	mg/kg	0.018	0.0073	0.0043 U	0.0046 U	0.0034 J	0.0028 J
Hexachloro-1,3-butadiene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Iodomethane	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Isopropylbenzene (Cumene)	mg/kg	0.01	0.0036 J	0.0043 U	0.0046 U	0.041	0.0065
Methylene Chloride	mg/kg	0.019 U	0.02 U	0.017 U	0.019 U	0.018 U	0.022 U
Methyl-tert-butyl ether	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Naphthalene, VOC	mg/kg	0.0042 J	0.0027 J	0.0043 U	0.0046 U	0.039	0.004 J
n-Butylbenzene	mg/kg	0.0087	0.0032 J	0.0043 U	0.0046 U	0.048	0.0057
n-Hexane	mg/kg	0.047	0.043	0.0043 U	0.0046 U	0.5	0.05
n-Propylbenzene	mg/kg	0.012	0.0068	0.0043 U	0.0046 U	0.13	0.014
Pentafluorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	0.015	0.0043 J	0.0043 U	0.0046 U	0.034	0.0069
sec-Butylbenzene	mg/kg	0.0048	0.0027 J	0.0043 U	0.0046 U	0.03	0.0034 J
Styrene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
tert-Butylbenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Tetrachloroethene	mg/kg	3.8	0.82 J	0.0043 U	0.0046 U	0.0045 U	0.0027 J
Toluene	mg/kg	0.075	0.029	0.0043 U	0.0046 U	0.0027 J	0.0041 J
trans-1,2-Dichloroethene	mg/kg	0.18	0.12	0.12	0.0046 U	0.0045 U	0.0086
trans-1,3-Dichloropropene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
trans-1,4-Dichloro-2-butene	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Trichloroethene	mg/kg	4,230	1,220	68.3	0.0046 U	0.0015 J	0.11
Trichlorofluoromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Vinyl acetate	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Vinyl chloride	mg/kg	0.58	0.49	2	0.0046 U	0.0045 U	0.14
Xylene (Total)	mg/kg	0.072	0.026	0.0085 U	0.0093 U	0.022	0.019

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
Chemical Name	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
SVOCs							
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA	NA	NA
2-Methylphenol(o-Cresol)	mg/kg	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA
4-Bromophenylphenyl ether	mg/kg	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	NA	NA	NA	NA	NA	NA
4-Chlorophenylphenyl ether	mg/kg	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA
Benzyl alcohol	mg/kg	NA	NA	NA	NA	NA	NA
bis(2chloro1methylethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
Chemical Name	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
bis(2-Chloroethoxy)methane	mg/kg	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	mg/kg	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	mg/kg	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	mg/kg	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate	mg/kg	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	NA	NA	NA	NA	NA	NA
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	NA	NA	NA	NA	NA	NA
Petroleum Hydrocarbons							
TPH (C06-C10)	mg/kg	NA	NA	NA	NA	NA	5.5
TPH-DRO (C10-C28)	mg/kg	NA	NA	NA	NA	NA	31.6

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Notes:
% - Percent
D = Duplicate
ft bgs = Feet below ground surface
ID = Identification
J = Concentration estimated
mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
NA = Not analyzed
PCB = Polychlorinated biphenyls
SU = Standard unit
SVOC = Semivolatile organic compound
TPH = Total petroleum hydrocarbons
U = Constituent not detected. Reporting limit presented.
VOC = Volatile organic compound

Table 1: Soil Analytical Results
Limited Site Investigation
Proposed Kimbal Park
Chicago, IL
A2107017 Task 7A

Sample Location/Identification			TB-1	TB-2	TB-2-Dup	TB-3	TB-4	TB-5	TB-5-Dup	Tier 1 Soil Remediation Objectives for Residential Properties				Soil Component of the Groundwater Ingestion Route Values
Sample Depth (feet)			23-25	13-15	13-15	23-25	28-30	15-17	15-17					
Date Collected			8/20/2012	8/20/2012	8/20/2012	8/21/2012	8/21/2012	8/21/2012	8/21/2012	Occupants		Construction Workers	Background	
Units										Ingestion	Inhalation	Inhalation	Chicago	Class II
Volatile Organic Analytical Parameters														
74-87-3	Chloromethane	mg/kg	< 0.0098	< 0.0087	< 0.0094	< 0.0084	< 0.0095	--	--	310	110	1.1	---	0.68
74-83-9	Bromomethane	mg/kg	< 0.0098	< 0.0087	< 0.0094	< 0.0084	< 0.0095	--	--	110	10	3.9	---	1.2
75-01-4	Vinyl Chloride	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	0.46	0.28	---	---	0.07
75-00-3	Chloroethane	mg/kg	< 0.0098	< 0.0087	< 0.0094	< 0.0084	< 0.0095	--	--	31000	1500	94	---	70
75-09-2	Methylene Chloride	mg/kg	< 0.0098	< 0.0087	< 0.0094	< 0.0084	< 0.0095	--	--	85	13	---	---	0.2
67-64-1	Acetone	mg/kg	< 0.073	< 0.065	< 0.07	< 0.063	< 0.071	--	--	70000	100000	---	---	25
75-15-0	Carbon Disulfide	mg/kg	< 0.049	< 0.043	< 0.047	< 0.042	< 0.047	--	--	7800	720	9	---	160
75-35-4	1,1-Dichloroethene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	3900	290	3	---	0.3
75-34-3	1,1-Dichloroethane	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	7800	1300	130	---	110
156-59-2	cis-1,2-Dichloroethene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	780	1200	---	---	1.1
156-60-5	trans-1,2-Dichloroethene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	1600	3100	---	---	3.4
67-66-3	Chloroform	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	100	0.3	---	---	2.9
107-06-2	1,2-Dichloroethane	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	7	0.4	---	---	0.1
78-93-3	2-Butanone	mg/kg	< 0.073	< 0.065	< 0.07	< 0.063	< 0.071	--	--	47000	25000	710	---	17
71-55-6	1,1,1-Trichloroethane	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	---	1200	---	---	9.6
56-23-5	Carbon Tetrachloride	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	5	0.3	---	---	0.33
75-27-4	Bromodichloromethane	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	10	3000	---	---	0.6
78-87-5	1,2-Dichloropropane	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	9	15	0.5	---	0.15
542-75-6	1,3-Dichloropropene (cis + trans)	mg/kg	< 0.002	< 0.0017	< 0.0019	< 0.0017	< 0.0019	--	--	6.4	1.1	0.39	---	0.02
79-01-6	Trichloroethene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	0.0049	--	--	58	5	---	---	0.3
124-48-1	Dibromochloromethane	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	1600	1300	---	---	0.4
79-00-5	1,1,2-Trichloroethane	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	310	1800	---	---	0.3
71-43-2	Benzene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	12	0.8	---	---	0.17
75-25-2	Bromoform	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	81	53	---	---	0.8
1634-04-4	Methyl Tertiary-Butyl Ether	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	780	8800	140	---	0.32
108-10-1	4-Methyl-2-pentanone	mg/kg	< 0.02	< 0.017	< 0.019	< 0.017	< 0.019	--	--	---	3100	340	---	2.5
591-78-6	2-Hexanone	mg/kg	< 0.02	< 0.017	< 0.019	< 0.017	< 0.019	--	--	3100	70	0.72	---	1.3
127-18-4	Tetrachloroethene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	12	11	---	---	0.3
108-88-3	Toluene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	16000	650	42	---	29
79-34-5	1,1,2,2-Tetrachloroethane	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	4700	2000	---	---	3.3
108-90-7	Chlorobenzene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	1600	130	1.3	---	6.5
100-41-4	Ethylbenzene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	7800	400	58	---	19
100-42-5	Styrene	mg/kg	< 0.0049	< 0.0043	< 0.0047	< 0.0042	< 0.0047	--	--	16000	1500	430	---	18
1330-20-7	Xylenes (total)	mg/kg	< 0.015	< 0.013	< 0.014	< 0.013	< 0.014	--	--	16000	320	5.6	---	150
Semivolatile Organic Analytical Parameters														
108-95-2	Phenol	mg/kg	--	--	--	--	--	< 0.21	< 0.2	23000	---	---	---	100
111-44-4	bis(2-Chloroethyl) ether	mg/kg	--	--	--	--	--	< 0.21	< 0.2	0.6	0.2	---	---	0.0004
95-57-8	2-Chlorophenol	mg/kg	--	--	--	--	--	< 0.21	< 0.2	390	53000	---	---	4
95-50-1	1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	< 0.21	< 0.2	7000	560	310	---	43
541-73-1	1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	< 0.21	< 0.2	70	570	---	---	1
106-46-7	1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	< 0.21	< 0.2	---	11000	340	---	11
95-48-7	2-Methylphenol	mg/kg	--	--	--	--	--	< 0.21	< 0.2	3900	---	---	---	15
108-60-1	2,2'-oxybis (1-chloropropane)	mg/kg	--	--	--	--	--	< 0.21	< 0.2	3100	1300	---	---	2.4
106-44-5	4-Methylphenol	mg/kg	--	--	--	--	--	< 0.21	< 0.2	390	---	---	---	0.2
621-64-7	N-Nitroso-di-n-propylamine	mg/kg	--	--	--	--	--	< 0.041	< 0.039	0.09	---	---	---	0.00005
67-72-1	Hexachloroethane	mg/kg	--	--	--	--	--	< 0.21	< 0.2	78	---	---	---	2.6
98-95-3	Nitrobenzene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	39	92	9.4	---	0.1
78-59-1	Isophorone	mg/kg	--	--	--	--	--	< 0.21	< 0.2	15600	4600	---	---	8
88-75-5	2-Nitrophenol	mg/kg	--	--	--	--	--	< 0.21	< 0.2	---	---	---	---	---
105-67-9	2,4-Dimethylphenol	mg/kg	--	--	--	--	--	< 0.21	< 0.2	1600	---	---	---	9
111-91-1	bis(2-Chloroethoxy) methane	mg/kg	--	--	--	--	--	< 0.21	< 0.2	---	---	---	---	---
120-83-2	2,4-Dichlorophenol	mg/kg	--	--	--	--	--	< 0.21	< 0.2	230	---	---	---	1
120-82-1	1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	< 0.21	< 0.2	780	3200	920	---	53
91-20-3	Naphthalene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	1600	170	1.8	0.04	18

Table 1: Soil Analytical Results
Limited Site Investigation
Proposed Kimbal Park
Chicago, IL
A2107017 Task 7A

	Sample Location/Identification		TB-1	TB-2	TB-2-Dup	TB-3	TB-4	TB-5	TB-5-Dup	Tier 1 Soil Remediation Objectives for Residential Properties				Soil Component of the Groundwater Ingestion Route Values
	Sample Depth (feet)		23-25	13-15	13-15	23-25	28-30	15-17	15-17					
	Date Collected		8/20/2012	8/20/2012	8/20/2012	8/21/2012	8/21/2012	8/21/2012	8/21/2012	Occupants		Construction Workers	Background	
	Units									Ingestion	Inhalation	Inhalation	Chicago	Class II
106-47-8	4-Chloroaniline	mg/kg	--	--	--	--	--	< 0.21	< 0.2	310	---	---	---	0.7
87-68-3	Hexachlorobutadiene	mg/kg	--	--	--	--	--	< 0.21	< 0.2	16	1000	180	---	15
59-50-7	4-Chloro-3-methylphenol	mg/kg	--	--	--	--	--	< 0.41	< 0.39	5500	---	---	---	120
91-57-6	2-Methylnaphthalene	mg/kg	--	--	--	--	--	< 0.21	< 0.2	310	---	---	---	36
77-47-4	Hexachlorocyclopentadiene	mg/kg	--	--	--	--	--	< 0.21	< 0.2	550	10	1.1	---	2200
88-06-2	2,4,6-Trichlorophenol	mg/kg	--	--	--	--	--	< 0.21	< 0.2	58	200	---	---	0.77
95-95-4	2,4,5-Trichlorophenol	mg/kg	--	--	--	--	--	< 0.21	< 0.2	7800	---	---	---	1400
91-58-7	2-Chloronaphthalene	mg/kg	--	--	--	--	--	< 0.21	< 0.2	6300	---	---	---	240
88-74-4	2-Nitroaniline	mg/kg	--	--	--	--	--	< 0.21	< 0.2	230	35	3.6	---	0.14
131-11-3	Dimethylphthalate	mg/kg	--	--	--	--	--	< 0.21	< 0.2	780000	1300	---	---	380
208-96-8	Acenaphthylene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	2300	---	---	0.03	420
606-20-2	2,6-dinitrotoluene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	0.9	---	---	---	0.0007
99-09-2	3-Nitroanaline	mg/kg	--	--	--	--	--	< 0.21	< 0.2	23	250	26	---	0.01
83-32-9	Acenaphthene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	4700	---	---	0.09	2900
51-28-5	2,4-Dinitrophenol	mg/kg	--	--	--	--	--	< 1	< 0.97	160	---	---	---	0.2
100-02-7	4-Nitrophenol	mg/kg	--	--	--	--	--	< 0.41	< 0.39	630	---	---	---	---
132-64-9	Dibenzofuran	mg/kg	--	--	--	--	--	< 0.21	< 0.2	160	---	---	---	30
121-14-2	2,4-Dinitrotoluene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	0.9	---	---	---	0.0008
84-66-2	Diethylphthalate	mg/kg	--	--	--	--	--	< 0.21	< 0.2	63000	2000	---	---	470
7005-72-3	4-Chlorophenyl-phenyl ether	mg/kg	--	--	--	--	--	< 0.21	< 0.2	---	---	---	---	---
86-73-7	Fluorene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	3100	---	---	0.1	2800
100-01-6	4-Nitroaniline	mg/kg	--	--	--	--	--	< 0.21	< 0.2	230	1000	110	---	0.1
534-52-1	4,6-Dinitro-2-methylphenol	mg/kg	--	--	--	--	--	< 0.41	< 0.39	7.8	---	---	---	---
86-30-6	N-nitrosodiphenylamine	mg/kg	--	--	--	--	--	< 0.041	< 0.039	130	---	---	---	5.6
101-55-3	4-Bromophenyl-phenyl ether	mg/kg	--	--	--	--	--	< 0.21	< 0.2	---	---	---	---	---
118-74-1	Hexachlorobenzene	mg/kg	--	--	--	--	--	< 0.21	< 0.2	0.4	1	---	---	11
87-86-5	Pentachlorophenol	mg/kg	--	--	--	--	--	< 0.041	< 0.039	3	---	---	---	0.14
85-01-8	Phenanthrene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	2300	---	---	1.3	1000
120-12-7	Anthracene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	23000	---	---	0.25	59000
86-74-8	Carbazole	mg/kg	--	--	--	--	--	< 0.21	< 0.2	32	---	---	---	2.8
84-74-2	Di-n-butylphthalate	mg/kg	--	--	--	--	--	< 0.21	< 0.2	7800	2300	---	---	2300
206-44-0	Fluoranthene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	3100	---	---	2.7	21000
129-00-0	Pyrene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	2300	---	---	1.9	21000
85-68-7	Butylbenzylphthalate	mg/kg	--	--	--	--	--	< 0.21	< 0.2	16000	930	---	---	930
91-94-1	3,3'-Dichlorobenzidine	mg/kg	--	--	--	--	--	< 0.21	< 0.2	1	---	---	---	0.033
56-55-3	Benzo(a)anthracene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	0.9	---	---	1.1	8
218-01-9	Chrysene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	88	---	---	1.2	800
117-81-7	bis(2-Ethylhexyl)phthalate	mg/kg	--	--	--	--	--	< 1	< 0.97	46	31000	---	---	31000
117-84-0	Di-n-octylphthalate	mg/kg	--	--	--	--	--	< 0.21	< 0.2	1600	10000	---	---	10000
205-99-2	Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	0.9	---	---	1.5	25
207-08-9	Benzo(k)fluoranthene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	9	---	---	0.99	250
50-32-8	Benzo(a)pyrene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	0.09	---	---	1.3	82
193-39-5	Indeno(1,2,3-c,d)pyrene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	0.9	---	---	0.86	69
53-70-3	Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	0.09	---	---	0.2	7.6
191-24-2	Benzo(g,h,i)perylene	mg/kg	--	--	--	--	--	< 0.041	< 0.039	2300	---	---	0.68	130000

Table Notes

Remediation Objectives from 35 Illinois Administrative Code Chapter 742: *Tiered Approach to Corrective Action Objectives* (TACO).

Remediation Objectives for Non-TACO compounds from Illinois Environmental Protection Agency's (IEPA's) web site (http://www.epa.state.il.us/land/taco/chemicals-not-in-taco-tier-1-tables.html).

mg/L = milligrams per liter, generally equivalent to parts per million (ppm)

mg/kg = milligrams per kilogram, generally equivalent to ppm

μg/m3 = micrograms per cubic meter

TCLP = Toxicity Characteristic Leaching Procedure

SPLP = Synthetic Precipitation Leaching Procedure

Table 1

PCE, TCE and Degradation Products Exceeding C_{sat}

1807-1815 North Kimball Avenue

Chicago, Illinois

		Client Sample ID :	**DB011012**	**DB011012D (Duplicate)**	**DB011618**	**DB012224**	**DB021012**	**DB021618**	**DB022224**	**DB031012**	**DB031618**	**DB031618D (Duplicate)**
		Laboratory ID :	18110219-011	18110219-012	18110219-013	18110219-014	18110137-006	18110137-007	18110137-008	18110137-009	18110137-010	18110137-011
		Boring Location :	DB-01	DB-01	DB-01	DB-01	DB-02	DB-02	DB-02	DB-03	DB-03	DB-03
		Sample Interval :	10-12	10-12	16-18	22-24	10-12	16-18	22-24	10-12	16-18	16-18
		Date Collected :	11/07/2018 14:20	11/07/2018 14:22	11/07/2018 14:30	11/07/2018 14:35	11/05/2018 11:20	11/05/2018 11:25	11/05/2018 11:30	11/05/2018 12:10	11/05/2018 12:20	11/05/2018 12:21
	Soil Saturation Concentration (C_{sat})											
Analyte	Outdoor Inhalation(mg/kg)	Soil Component of Groundwater (mg/kg)										
1,1-Dichloroethene	3400	2500	< 0.0054	< 0.0048	< 0.0052	< 0.0042	< 0.0054	< 0.0047	< 0.0061	< 0.0046	< 0.0069	< 0.0065
cis-1,2-Dichloroethene	1300	1000	< 0.0054	< 0.0048	< 0.0052	< 0.0042	< 0.0054	< 0.0047	< 0.0061	< 0.0046	< 0.0069	< 0.0065
trans-1,2-Dichloroethene	3000	2100	< 0.0054	< 0.0048	< 0.0052	< 0.0042	< 0.0054	< 0.0047	< 0.0061	< 0.0046	< 0.0069	< 0.0065
Tetrachloroethene	800	310	< 0.0054	< 0.0048	< 0.0052	< 0.0042	< 0.0054	< 0.0047	< 0.0061	< 0.0046	< 0.0069	< 0.0065
Trichloroethene	1200	650	< 0.0054	< 0.0048	< 0.0052	< 0.0042	< 0.0054	< 0.0047	< 0.0061	< 0.0046	< 0.0069	< 0.0065
Vinyl chloride	2600	2900	< 0.0054	< 0.0048	< 0.0052	< 0.0042	< 0.0054	< 0.0047	< 0.0061	< 0.0046	< 0.0069	< 0.0065
Depth interval exceeding Csat, feet below ground surface:			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Sample results are preliminary at present, and in draft form.

Table 1 was prepared by AECOM using EDI data table.

NA = Not applicable

C_{sat} = Soil Saturation Concentration

Shaded Values exceeded C_{sat}

Values that exceed Csat for Outdoor inhalation are shown in **Bold.**

PCE = Tetrachloroethene

TCE= Trichloroethene

Table 1

PCE, TCE and Degradation Products Exceeding C_{sat}

1807-1815 North Kimball Avenue

Chicago, Illinois

		Client Sample ID :	DB032224	DB041012	DB041618	DB042224	DB041618D (Duplicate)	DB052022	DB052426	DB061416	DB062224	DB071113
		Laboratory ID :	18110137-012	18110187-018	18110187-019	18110187-020	18110187-021	18110137-004	18110137-005	18110137-013	18110137-014	18110187-006
		Boring Location :	DB-03	DB-04	DB-04	DB-04	DB-04	DB-05	DB-05	DB-06	DB-06	DB-07
		Sample Interval :	22-24	10-12	16-18	22-24	16-18	20-22	24-26	14-16	22-24	11-13
		Date Collected :	11/05/2018 12:30	11/06/2018 15:00	11/06/2018 15:10	11/06/2018 15:20	11/06/2018 15:15	11/05/2018 10:20	11/05/2018 10:30	11/05/2018 12:40	11/05/2018 12:45	11/06/2018 11:30
	Soil Saturation Concentration (C_{sat})											
Analyte	Outdoor Inhalation(mg/kg)	Soil Component of Groundwater (mg/kg)										
1,1-Dichloroethene	3400	2500	< 0.0050	< 0.0045	< 0.0049	< 0.0052	< 0.0050	< 0.0083	< 0.0050	0.0055	< 0.0056	< 0.0045
cis-1,2-Dichloroethene	1300	1000	< 0.0050	< 0.0045	< 0.0049	< 0.0052	< 0.0050	< 0.0083	< 0.0050	0.010	< 0.0056	0.010
trans-1,2-Dichloroethene	3000	2100	< 0.0050	< 0.0045	< 0.0049	< 0.0052	< 0.0050	< 0.0083	< 0.0050	< 0.0052	< 0.0056	< 0.0045
Tetrachloroethene	800	310	< 0.0050	< 0.0045	< 0.0049	< 0.0052	< 0.0050	< 0.0083	< 0.0050	< 0.0052	< 0.0056	< 0.0045
Trichloroethene	1200	650	< 0.0050	< 0.0045	< 0.0049	< 0.0052	< 0.0050	< 0.0083	< 0.0050	0.25	0.013	< 0.0045
Vinyl chloride	2600	2900	< 0.0050	< 0.0045	< 0.0049	< 0.0052	< 0.0050	< 0.0083	< 0.0050	0.29	< 0.0056	< 0.0045
Depth interval exceeding Csat, feet below ground surface:			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Sample results are preliminary at present, and in draft form.

Table 1 was prepared by AECOM using EDI data table.

NA = Not applicable

C_{sat} = Soil Saturation Concentration

Shaded Values exceeded C_{sat}

Values that exceed Csat for Outdoor inhalation are shown in **Bold.**

PCE = Tetrachloroethene

TCE= Trichloroethene

Table 1

PCE, TCE and Degradation Products Exceeding C_{sat}

1807-1815 North Kimball Avenue

Chicago, Illinois

		Client Sample ID :	DB071618	DB072224	DB081113	DB081618	DB082224	DB091113	DB091618	DB092224	DB101820	DB102628
		Laboratory ID :	18110187-007	18110187-008	18110219-008	18110219-009	18110219-010	18110137-001	18110137-002	18110137-003	18110219-001	18110219-002
		Boring Location :	DB-07	DB-07	DB-08	DB-08	DB-08	DB-09	DB-09	DB-09	DB-10	DB-10
		Sample Interval :	16-18	22-24	11-13	16-18	22-24	11-13	16-18	22-24	18-20	26-28
		Date Collected :	11/06/2018 11:35	11/06/2018 11:40	11/07/2018 13:40	11/07/2018 13:45	11/07/2018 13:50	11/05/2018 09:30	11/05/2018 09:35	11/05/2018 09:40	11/07/2018 09:00	11/07/2018 09:10
	Soil Saturation Concentration (C_{sat})											
Analyte	Outdoor Inhalation(mg/kg)	Soil Component of Groundwater (mg/kg)										
1,1-Dichloroethene	3400	2500	< 0.0050	< 0.0048	< 0.0048	< 0.0048	< 0.0043	< 28	< 0.0059	< 0.0046	< 0.0047	< 0.0043
cis-1,2-Dichloroethene	1300	1000	< 0.0050	< 0.0048	0.017	< 0.0048	< 0.0043	< 28	< 0.0059	< 0.0046	< 0.0047	< 0.0043
trans-1,2-Dichloroethene	3000	2100	< 0.0050	< 0.0048	< 0.0048	< 0.0048	< 0.0043	< 28	< 0.0059	< 0.0046	< 0.0047	< 0.0043
Tetrachloroethene	800	310	< 0.0050	< 0.0048	< 0.0048	< 0.0048	< 0.0043	< 28	< 0.0059	< 0.0046	< 0.0047	< 0.0043
Trichloroethene	1200	650	< 0.0050	< 0.0048	0.016	< 0.0048	0.0071	**2,300**	0.06	< 0.0046	0.24	0.0079
Vinyl chloride	2600	2900	< 0.0050	< 0.0048	0.029	< 0.0048	< 0.0043	< 28	< 0.0059	< 0.0046	< 0.0047	< 0.0043
Depth interval exceeding Csat, feet below ground surface:			NA	NA	NA	NA	NA	11-13	NA	NA	NA	NA

Notes:

Sample results are preliminary at present, and in draft form.

Table 1 was prepared by AECOM using EDI data table.

NA = Not applicable

C_{sat} = Soil Saturation Concentration

Shaded Values exceeded C_{sat}

Values that exceed Csat for Outdoor inhalation are shown in **Bold.**

PCE = Tetrachloroethene

TCE= Trichloroethene

Table 1

PCE, TCE and Degradation Products Exceeding C_{sat}

1807-1815 North Kimball Avenue

Chicago, Illinois

		Client Sample ID :	DB111214	DB111820	DB112628	DB121214	DB121214D (Duplicate)	DB121820	DB122628M (MS/MSD)	DB131820	DB132426	DB141416
		Laboratory ID :	18110137-015	18110137-016	18110137-017	18110137-018	18110137-019	18110137-020	18110137-021	18110219-003	18110219-004	18110187-001
		Boring Location :	DB-11	DB-11	DB-11	DB-12	DB-12	DB-12	DB-12	DB-13	DB-13	DB-14
		Sample Interval :	12-14	18-20	26-28	12-14	12-14	18-20	26-28	18-20	24-26	14-16
		Date Collected :	11/05/2018 13:15	11/05/2018 13:25	11/05/2018 13:30	11/05/2018 14:40	11/05/2018 14:42	11/05/2018 14:45	11/05/2018 14:50	11/07/2018 10:00	11/07/2018 10:10	11/06/2018 09:00
	Soil Saturation Concentration (C_{sat})											
Analyte	Outdoor Inhalation(mg/kg)	Soil Component of Groundwater (mg/kg)										
1,1-Dichloroethene	3400	2500	< 23	< 0.0050	< 0.0044	< 0.0051	< 0.0050	< 0.0051	< 0.0049	< 0.0051	< 0.0058	< 0.0049
cis-1,2-Dichloroethene	1300	1000	< 23	< 0.0050	< 0.0044	< 0.0051	< 0.0050	< 0.0051	< 0.0049	< 0.0051	< 0.0058	< 0.0049
trans-1,2-Dichloroethene	3000	2100	< 23	< 0.0050	< 0.0044	< 0.0051	< 0.0050	< 0.0051	< 0.0049	< 0.0051	< 0.0058	< 0.0049
Tetrachloroethene	800	310	< 23	< 0.0050	< 0.0044	< 0.0051	< 0.0050	< 0.0051	< 0.0049	< 0.0051	< 0.0058	< 0.0049
Trichloroethene	1200	650	**2,300**	< 0.0050	< 0.0044	< 0.0051	< 0.0050	< 0.0051	< 0.0049	0.014	0.024	< 0.0049
Vinyl chloride	2600	2900	< 23	< 0.0050	< 0.0044	< 0.0051	< 0.0050	< 0.0051	< 0.0049	< 0.0051	< 0.0058	< 0.0049
Depth interval exceeding Csat, feet below ground surface:			12-14	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Sample results are preliminary at present, and in draft form.

Table 1 was prepared by AECOM using EDI data table.

NA = Not applicable

C_{sat} = Soil Saturation Concentration

Shaded Values exceeded C_{sat}

Values that exceed Csat for Outdoor inhalation are shown in **Bold.**

PCE = Tetrachloroethene

TCE= Trichloroethene

Table 1

PCE, TCE and Degradation Products Exceeding C_{sat}

1807-1815 North Kimball Avenue

Chicago, Illinois

		Client Sample ID :	DB141820	DB151012	DB151618	DB152224	DB161012	DB161618	DB161618D (Duplicate)	DB162224	DB171214	DB171618
		Laboratory ID :	18110187-002	18110187-003	18110187-004	18110187-005	18110187-009	18110187-010	18110187-011	18110187-012	18110187-013	18110187-014
		Boring Location :	DB-14	DB-15	DB-15	DB-15	DB-16	DB-16	DB-16	DB-16	DB-17	DB-17
		Sample Interval :	18-20	10-12	16-18	22-24	10-12	16-18	16-18	22-24	12-14	16-18
		Date Collected :	11/06/2018 09:05	11/06/2018 10:50	11/06/2018 11:00	11/06/2018 11:15	11/06/2018 12:25	11/06/2018 12:30	11/06/2018 12:35	11/06/2018 12:45	11/06/2018 13:20	11/06/2018 13:25
	Soil Saturation Concentration (C_{sat})											
Analyte	Outdoor Inhalation(mg/kg)	Soil Component of Groundwater (mg/kg)										
1,1-Dichloroethene	3400	2500	< 0.0052	< 0.0055	< 0.0043	< 0.0041	< 0.0051	< 0.0045	< 0.0049	< 0.0042	< 22	< 0.0047
cis-1,2-Dichloroethene	1300	1000	< 0.0052	< 0.0055	< 0.0043	< 0.0041	< 0.0051	< 0.0045	< 0.0049	< 0.0042	< 22	< 0.0047
trans-1,2-Dichloroethene	3000	2100	< 0.0052	< 0.0055	< 0.0043	< 0.0041	< 0.0051	< 0.0045	< 0.0049	< 0.0042	< 22	< 0.0047
Tetrachloroethene	800	310	< 0.0052	< 0.0055	< 0.0043	< 0.0041	< 0.0051	< 0.0045	< 0.0049	< 0.0042	< 22	< 0.0047
Trichloroethene	1200	650	< 0.0052	< 0.0055	< 0.0043	< 0.0041	< 0.0051	< 0.0045	< 0.0049	< 0.0042	980	0.034
Vinyl chloride	2600	2900	< 0.0052	< 0.0055	< 0.0043	< 0.0041	< 0.0051	< 0.0045	< 0.0049	< 0.0042	< 22	< 0.0047
Depth interval exceeding Csat, feet below ground surface:			NA	NA	NA	NA	NA	NA	NA	NA	12-14	NA

Notes:

Sample results are preliminary at present, and in draft form.

Table 1 was prepared by AECOM using EDI data table.

NA = Not applicable

C_{sat} = Soil Saturation Concentration

Shaded Values exceeded C_{sat}

Values that exceed Csat for Outdoor inhalation are shown in **Bold.**

PCE = Tetrachloroethene

TCE= Trichloroethene

Table 1

PCE, TCE and Degradation Products Exceeding C_{sat}

1807-1815 North Kimball Avenue

Chicago, Illinois

		Client Sample ID :	DB172224	DB181012	DB181618	DB182224	DB191416	DB191820	DB201012	DB201618	DB201618M (MS/MSD)	DB202426
		Laboratory ID :	18110187-015	18110219-005	18110219-006	18110219-007	18110187-016	18110187-017	18110358-006	18110358-007	18110358-008	18110358-009
		Boring Location :	DB-17	DB-18	DB-18	DB-18	DB-19	DB-19	DB-20	DB-20	DB-20	DB-20
		Sample Interval :	22-24	10-12	16-18	22-24	14-16	18-20	10-12	16-18	16-18	24-26
		Date Collected :	11/06/2018 13:30	11/07/2018 12:30	11/07/2018 12:40	11/07/2018 12:45	11/06/2018 14:20	11/06/2018 14:25	11/08/2018 14:00	11/08/2018 14:15	11/08/2018 14:16	11/08/2018 14:30
	Soil Saturation Concentration (C_{sat})											
Analyte	Outdoor Inhalation(mg/kg)	Soil Component of Groundwater (mg/kg)										
1,1-Dichloroethene	3400	2500	< 0.0049	< 26	< 0.0046	< 0.0060	< 0.0051	< 0.0048	< 0.0048	< 0.0048	< 0.0038	< 0.0040
cis-1,2-Dichloroethene	1300	1000	< 0.0049	31	< 0.0046	< 0.0060	< 0.0051	< 0.0048	0.014	< 0.0048	< 0.0038	< 0.0040
trans-1,2-Dichloroethene	3000	2100	< 0.0049	< 26	< 0.0046	< 0.0060	< 0.0051	< 0.0048	< 0.0048	< 0.0048	< 0.0038	< 0.0040
Tetrachloroethene	800	310	< 0.0049	< 26	< 0.0046	< 0.0060	< 0.0051	< 0.0048	< 0.0048	< 0.0048	< 0.0038	< 0.0040
Trichloroethene	1200	650	< 0.0049	**3,200**	0.12	0.013	< 0.0051	< 0.0048	< 0.0048	< 0.0048	< 0.0038	< 0.0040
Vinyl chloride	2600	2900	< 0.0049	< 26	< 0.0046	< 0.0060	< 0.0051	< 0.0048	0.017	< 0.0048	< 0.0038	< 0.0040
Depth interval exceeding Csat, feet below ground surface:			NA	10-12	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Sample results are preliminary at present, and in draft form.

Table 1 was prepared by AECOM using EDI data table.

NA = Not applicable

C_{sat} = Soil Saturation Concentration

Shaded Values exceeded C_{sat}

Values that exceed Csat for Outdoor inhalation are shown in **Bold.**

PCE = Tetrachloroethene

TCE= Trichloroethene

Table 1

PCE, TCE and Degradation Products Exceeding C_{sat}

1807-1815 North Kimball Avenue

Chicago, Illinois

		Client Sample ID :	DB202426D (Duplicate)	DB211820	DB212325	DB221012	DB221618	DB222426
		Laboratory ID :	18110358-010	18110358-004	18110358-005	18110358-001	18110358-002	18110358-003
		Boring Location :	DB-20	DB-21	DB-21	DB-22	DB-22	DB-22
		Sample Interval :	24-26	18-20	23-25	10-12	16-18	24-26
		Date Collected :	11/08/2018 14:31	11/08/2018 12:00	11/08/2018 12:15	11/08/2018 10:40	11/08/2018 10:50	11/08/2018 11:00
	Soil Saturation Concentration (C_{sat})							
Analyte	Outdoor Inhalation(mg/kg)	Soil Component of Groundwater (mg/kg)						
1,1-Dichloroethene	3400	2500	< 0.0038	< 0.0055	< 0.0041	< 0.0049	< 0.0048	< 0.0041
cis-1,2-Dichloroethene	1300	1000	< 0.0038	< 0.0055	< 0.0041	0.0082	< 0.0048	< 0.0041
trans-1,2-Dichloroethene	3000	2100	< 0.0038	< 0.0055	< 0.0041	< 0.0049	< 0.0048	< 0.0041
Tetrachloroethene	800	310	< 0.0038	< 0.0055	< 0.0041	< 0.0049	< 0.0048	< 0.0041
Trichloroethene	1200	650	< 0.0038	< 0.0055	< 0.0041	< 0.0049	< 0.0048	< 0.0041
Vinyl chloride	2600	2900	< 0.0038	< 0.0055	< 0.0041	0.023	< 0.0048	< 0.0041
Depth interval exceeding Csat, feet below ground surface:			NA	NA	NA	NA	NA	NA

Notes:

Sample results are preliminary at present, and in draft form.

Table 1 was prepared by AECOM using EDI data table.

NA = Not applicable

C_{sat} = Soil Saturation Concentration

Shaded Values exceeded C_{sat}

Values that exceed Csat for Outdoor inhalation are shown in **Bold.**

PCE = Tetrachloroethene

TCE= Trichloroethene

U.S. EPA BROWNFIELDS
CLEANUP GRANT APPLICATION
for 1807-1815 N. Kimball

FLEET & FACILITY MANAGEMENT

HOW DO I PARTICIPATE?

The grant application documents are available at the following locations:

- Humboldt Park Branch Library, 1605 N. Troy Street, Chicago, IL 60647
- Logan Square Branch Library, 3030 W. Fullerton Ave, Chicago, IL 60647
- Chicago Department of Fleet and Facility Management (2FM), 30 N. LaSalle Street, Suite 300, Chicago, IL 60602
- 2FM's website, within the Supporting Information section: https://www.chicago.gov/city/en/depts/dgs/supp_info.html

The City of Chicago is applying for a U.S. Environmental Protection Agency (EPA) 2019 Brownfields Cleanup Grant for environmental cleanup at 1807-1815 N. Kimball Ave (the Site).

The City acquired the Site for future use as public park space. Prior to the City's ownership, the Site was occupied for nearly a century by industrial and manufacturing operations.

SITE IMPACTS

Soil and groundwater investigations have identified:

- concentrations of volatile and semi-volatile organic compounds and metals exceeding applicable state cleanup criteria across the majority of the Site.
- hot spot of trichloroethylene (TCE)* contamination in deep soil (~8 to 20 ft below the surface) beneath the eastern portion of the Site.

*TCE is a common solvent, typically used for degreasing.

GRANT SCOPE

If awarded, the grant funds will be used to reduce the TCE concentrations in the hot spot area. The recommended cleanup alternative is to apply In-Situ Chemical Oxidation (ISCO) via in-place soil mixing. ISCO uses an oxidizing compound to break down TCE in-place. Later cleanup actions to be implemented prior to or as part of redevelopment will likely include engineered barrier construction (such as clean soil, asphalt, concrete) and implementation of institutional controls.

GRANT AMOUNT: $500,000

CITY'S COST SHARE: $100,000

3 YEAR PROJECT PERIOD

APPLICATION DUE: JANUARY 31, 2019

WRITTEN COMMENTS ACCEPTED THROUGH JANUARY 25, 2019
2FM, Attention of the Deputy Commissioner, Bureau of Environmental, Health & Safety Management
30 N. LaSalle Street, Suite 300, Chicago, IL, 60602
or to 2FM_EHS_Notifications@cityofchicago.org.

U.S. EPA BROWNFIELDS
Solicitud de Subvención de Limpieza
para1807-1815 N. Kimball

FLEET & FACILITY MANAGEMENT

¿CÓMO PUEDO PARTICIPAR?

Los documentos de solicitud de subvención están disponibles en los siguientes lugares:

- Biblioteca de Humboldt Park, 1605 N. Troy Street, Chicago, IL 60647
- Biblioteca de Logan Square, 3030 W. Fullerton Ave, Chicago, IL 60647
- Departamento de Flota y Administración de Instalaciones de Chicago (2FM), 30 N. LaSalle Street, Suite 300, Chicago, IL 60602
- El sitio web de 2FM, dentro de la sección de Información de Apoyo: https:// www.chicago. gov/city/en/depts/dgs/ supp_info.html

La ciudad de Chicagoestá aplicando para una subvención de limpieza de Brownfield de la Agencia de Protección Ambiental de los Estados Unidos (US EPA) para limpieza ambiental en 1807-1815 N. Kimball Ave (el sitio).

La Ciudad adquirió el Sitio para uso futuro como espacio de parque público. Antes de la propiedad de la ciudad, el sitio fue ocupado durante casi un siglo por operaciones industriales y de fabricación.

IMPACTOS DEL SITIO

Suelo y agua subterránea investigaciones han identificado:

- concentraciones de compuestos orgánicos volátiles y semivolátiles y metales que exceden los criterios de limpieza estatales aplicables en la mayoría del Sitio.
- punto caliente de tricloroetileno (TCE) * contaminación en suelos profundos (~ 8 a 20 pies debajo de la superficie) debajo de la parte este del Sitio.

*El TCE es un solvente común, típicamente usado para desengrasar

ALCANCE DE SUBVENCIONES

Si se le adjudica, los fondos de subvención se utilizarán para reducir las concentraciones de TCE en el área. La alternativa de limpieza recomendada es aplicar Oxidación química in situ (ISCO) a través de la mezcla de suelo en el lugar. ISCO usa un compuesto oxidante para descomponer el TCE en el lugar. Acciones de limpieza posteriores a ser implementadas antes de o como parte de la remodelación probablemente incluyen construcción de barrera de ingeniería (como suelo limpio, asfalto, concreto) e implementación de controles institucionales.

CANTIDAD DE SUBVENCIÓN: $500,000

PARTE DEL COSTO DE LA CIUDAD: $100,000

PROYECTO 3 AÑOS

SOLICITUD DEBIDA: 31DE ENERO DE 2019

COMENTARIOS ESCRITOS ACEPTADOS HASTA EL 25 DE ENERO DE 2019
2FM a la atención del Comisionado Adjunto, Oficina de Gestión Ambiental, Salud y Seguridad en 30 N. LaSalle Street, Suite 300, Chicago, IL, 60602
o por correo electrónico a 2FM_EHS_Notifications@cityofchicago.org.

CITY OF CHICAGO, DEPT. OF PLANNING & DEVELOPMENT
Cleanup Grant Pub Meeting

ADORDERNUMBER: 0001077747-01
PO NUMBER: Cleanup Grant Pub Meeting
AMOUNT: 118.40
NO OF AFFIDAVITS: 1

PUBLIC NOTICE

City of Chicago
Notice of Public Meeting and Solicitation of Public Comments on a Brownfield Cleanup Grant Application to the U.S. Environmental Protection Agency

The City of Chicago is holding a public meeting on Tuesday, January 22, 2019 at 6:00 PM at the Kimball Arts Center, 1757 N. Kimball Avenue, Chicago, IL regarding the City's intent to apply for a U.S. Environmental Protection Agency (EPA) FY19 Brownfields Cleanup Grant. The $500,000 grant, if awarded, will be used for environmental cleanup at 1807-1815 N. Kimball Ave, Chicago, IL 60647. The City will discuss and solicit comments on the draft application and draft Analysis of Brownfield Cleanup Alternatives (ABCA) at the meeting.

The grant application documents are available on and after January 17, 2019 at the Chicago Public Library's Humboldt Park (1605 N. Troy Street, Chicago, IL 60647) and Logan Square (3030 W. Fullerton Ave, Chicago, IL 60647) Branches and may be examined and copied during their regular hours; at the City of Chicago Department of Fleet and Facility Management (2FM), 30 N. LaSalle Street, Suite 300 and may be examined or copied in the office weekdays 8:30 AM to 4:00 PM; and on 2FM's website, within the Supporting Information section, located at the following address: https://www.chicago.gov/city/en/depts/dgs/supp_info.html

Written comments may be submitted through January 25, 2019 to 2FM to the attention of the Deputy Commissioner, Bureau of Environmental, Health & Safety Management at 30 N. LaSalle Street, Suite 300, Chicago, IL, 60602 or to 2FM_EHS_Notifications@cityofchicago.org.
1/13, 1/20/19 #1077747

Chicago Sun-Times
Certificate of Publication

State of Illinois - County of Cook

Chicago Sun-Times, does hereby certify it has published the attached advertisments in the following secular newspapers. All newspapers meet Illinois Compiled Statue requirements for publication of Notices per Chapter 715 ILCS 5/0.01 et seq. R.S. 1874, P728 Sec 1, EFF. July 1, 1874. Amended by Laws 1959, P1494, EFF. July 17, 1959. Formerly Ill. Rev. Stat. 1991, CH100, Pl.
Note: Notice appeared in the following checked positions.

PUBLICATION DATE(S): 01/13/2019, 01/20/2019

Chicago Sun-Times

IN WITNESS WHEREOF, the undersigned, being duly authorized, has caused this Certificate to be signed

by

Mary Lou Davis
Account Manager - Public Legal Notices

This 20th Day of January 2019 A.D.

CITY OF CHICAGO, DEPT. OF PLANNING & DEVELOPMENT
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ATTN IRENE WACHOWSKI
CHICAGO, IL 60602-1266

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On the following days, to-wit: **Jan 18, 2019**.

Executed at Chicago, Illinois on this

18th Day of January, 2019, by

Chicago Tribune Company

Stefanie Sobie

Chicago Tribune

CIUDAD DE CHICAGO
NOTIFICACIÓN DE REUNIÓN PUBLICA Y SOLICITACIÓN DE COMENTARIOS DEL PÚBLICO SOBRE UNA SOLICITUD DE SUBVENCIÓN DE LIMPIEZA BROWNFIELD PARA LA AGENCIA DE PROTECCIÓN AMBIENTAL DE LOS ESTADOS UNIDOS (US EPA)

La ciudad de Chicago está celebrando una reunión pública el Martes 22 de Enero de 2019 a las 6:00 pm en el Kimball Arts Center, 1757 N. Kimball Avenue, Chicago, IL con respecto a la intención de la Ciudad de solicitar una subvención de limpieza de Brownfield (año fiscal 2019) de la Agencia de Protección Ambiental de los Estados Unidos (US EPA). La subvención de $500,000, si se otorga, se usará para la limpieza ambiental en las direcciones de 1807-1815 N. Kimball Ave, Chicago, IL 60647. La Ciudad discutirá y solicitará comentarios sobre la solicitud y el Análisis de alternativas de limpieza de Brownfield (ABCA) en la reunión.

Los documentos de solicitud de subvención estarán disponibles a partir del 17 de Enero de 2019 en las sucursales de la Biblioteca Pública de Chicago en Humboldt Park (1605 N. Troy Street, Chicago, IL 60647) y Logan Square (3030 W. Fullerton Ave, Chicago, IL 60647). Los documentos pueden ser examinados y copiados durante sus horas regulares; en el Departamento de Flota y Administración de Instalaciones de la Ciudad de Chicago (2FM), 30 N. LaSalle Street, Suite 300 y se pueden examinar o copiar en la oficina entre semana de 8:30 am a 4:00 pm; y en el sitio web de 2FM, dentro de la sección de Información de Apoyo, ubicada en la siguiente dirección: https://www.chicago.gov/city/en/depts/dgs/supp_info.html

Los comentarios por escrito pueden enviarse hasta el 25 de enero de 2019 a 2FM a la atención del Comisionado Adjunto, Oficina de Gestión Ambiental, Salud y Seguridad en 30 N. LaSalle Street, Suite 300, Chicago, IL, 60602 o por correo electrónico a 2FM_EHS_Notifications@cityofchicago.org.

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CIUDAD DE CHICAGO
NOTIFICACIÓN DE REUNIÓN PUBLICA Y SOLICITACIÓN DE COMENTARIOS DEL PÚBLICO SOBRE UNA SOLICITUD DE SUBVENCIÓN DE LIMPIEZA BROWNFIELD PARA LA AGENCIA DE PROTECCIÓN AMBIENTAL DE LOS ESTADOS UNIDOS (US EPA)

La ciudad de Chicago está celebrando una reunión pública el Martes 22 de Enero de 2019 a las 6:00 pm en el Kimball Arts Center, 1757 N. Kimball Avenue, Chicago, IL con respecto a la intención de la Ciudad de solicitar una subvención de limpieza de Brownfield (año fiscal 2019) de la Agencia de Protección Ambiental de los Estados Unidos (US EPA). La subvención de $500,000, si se otorga, se usará para la limpieza ambiental en las direcciones de 1807-1815 N. Kimball Ave, Chicago, IL 60647. La Ciudad discutirá y solicitará comentarios sobre la solicitud y el Análisis de alternativas de limpieza de Brownfield (ABCA) en la reunión.

Los documentos de solicitud de subvención estarán disponibles a partir del 17 de Enero de 2019 en las sucursales de la Biblioteca Pública de Chicago en Humboldt Park (1605 N. Troy Street, Chicago, IL 60647) y Logan Square (3030 W. Fullerton Ave, Chicago, IL 60647). Los documentos pueden ser examinados y copiados durante sus horas regulares; en el Departamento de Flota y Administración de Instalaciones de la Ciudad de Chicago (2FM), 30 N. LaSalle Street, Suite 300 y se pueden examinar o copiar en la oficina entre semana de 8:30 am a 4:00 pm; y en el sitio web de 2FM, dentro de la sección de Información de Apoyo, ubicada en la siguiente dirección: https://www.chicago.gov/city/en/depts/dgs/supp_info.html

Los comentarios por escrito pueden enviarse hasta el 25 de enero de 2019 a 2FM a la atención del Comisionado Adjunto, Oficina de Gestión Ambiental, Salud y Seguridad en 30 N. LaSalle Street, Suite 300, Chicago, IL, 60602 o por correo electrónico a 2FM_EHS_Notifications@cityofchicago.org.

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FLEET AND FACILITY MANAGEMENT

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1807-1815 N. Kimball Ave U.S. EPA Brownfields Cleanup Grant Draft Application

1807-1815 N. Kimball Avenue U.S. EPA Brownfields Draft Cleanup Grant Application

Notice of Public Meeting and Solicitation of Public Comments

The City of Chicago is holding a public meeting on Tuesday, January 22, 2019 at 6:00 PM at the Kimball Arts Center, 1757 N. Kimball Avenue, Chicago, IL regarding the City's intent to apply for a U.S. Environmental Protection Agency (EPA) FY19 Brownfields Cleanup Grant. The $500,000 grant, if awarded, will be used for environmental cleanup at 1807-1815 N. Kimball Ave, Chicago, IL 60647. The City will discuss and solicit comments on the draft application and draft Analysis of Brownfield Cleanup Alternatives (ABCA) at the meeting.

The draft grant application documents are available for download below; at the Chicago Public Library's Humboldt Park (1605 N. Troy Street, Chicago, IL 60647) and Logan Square (3030 W. Fullerton Ave, Chicago, IL 60647) Branches and may be examined and copied during their regular hours; and at the City of Chicago Department of Fleet and Facility Management (2FM), 30 N. LaSalle Street, Suite 300 and may be examined or copied in the office weekdays 8:30 AM to 4:00 PM.

Written comments may be submitted through January 25, 2019 to 2FM to the attention of the Deputy Commissioner, Bureau of Environmental, Health & Safety Management at 30 N. LaSalle Street, Suite 300, Chicago, IL, 60602 or to 2FM_EHS_Notifications@cityofchicago.org.

Documents available on January 17, 2019

- ABCA Draft_2019Jan17_Public (/content/dam/city/depts/dgs/supp_info/ABCA%20Draft_2019Jan17_Public.pdf)
- Brownfield Grant Application Draft_2019 Jan 17_Public (/content/dam/city/depts/dgs/supp_info/Brownfield%20Grant%20Application%20Draft_2019%20Jan%2017_Public.

Supporting Information Facts

Department:

Fleet and Facility Management (/content/city/en/depts/dgs.html)
Environmental Health and Safety Management
(/content/city/en/depts/dgs/provdrs/environmental_management.html)

Programs & Initiatives:

Environment and Sustainability (/content/city/en/progs/env.html)

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Events

Events

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JAN
22

Public Meeting Re: Kimball access park to the Bloomingdale Trail

Public · Hosted by Bloomingdale Trail

★ Interested

Tuesday, January 22, 2019 at 6:00 PM – 7:30 PM CST
5 days ago

Opera-Matic
1757 N Kimball Ave, Chicago, Illinois 60647

Show Map

15 Went · 79 Interested
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Details

The City-owned land at 1807-1815 N Kimball next to the Bloomingdale Trail has long been envisioned as a Trail access park. The City is proposing to apply for a $500,000 United States Environmental Protection Agency Brownfields Cleanup Grant to help achieve this vision. The Friends of the Bloomingdale Trail and City of Chicago, in partnership with Operamatic, are hosting a public meeting so the community can learn more about the grant proposal and provide feedback. Please note this is not a design meeting.

La tierra de propiedad de la ciudad en 1807-1815 N Kimball al lado del sendero Bloomingdale, se han previsto como un parque de acceso sendero durante mucho tiempo. La Ciudad propone solicitar una subvención de limpieza Brownfields de $ 500,000 de la Agencia de Protección Ambiental de los Estados Unidos (US EPA). Nuestros amigos de Bloomingdale Trail y la Ciudad de Chicago, en asociación con Operamatic, están organizando

See More

About Bloomingdale Trail

Bloomingdale Trail
Park · Chicago, Illinois
The Bloomingdale Trail is the heart of The 606. It is an elevated, multi-use linear park created out of the unused Bloomingdale rail embankment.

Photos of Bloomingdale Trail

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Tomorrow CST at Hideout Inn
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Thursday CST at Concrete Cow…
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1st Thursday's of the month a…
Thu, Feb 7 CST at Spilt Milk
688 guests

What You Need to Know for C…
Saturday CST at Museum of Co…
303 guests

See All Photos

Event with Bloomingdale Trail

JAN
29

Postponed due to cold - Bloomingdale Trail PAC
Tue 4:30 PM · Chicago, Illinois

See All Events

About the Venue

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Photos at Opera-Matic

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Public Meeting Regarding
Kimball Access Park to
The Bloomingdale Trail
Tuesday, January 22, 2019
6 PM - 7:30 PM
Kimball Arts Center (Opera-Matic)
1757 N. Kimball Ave.
The City-owned land at 1807-1815 N Kimball next to the Bloomingdale Trail has long been envisioned as a Trail access park. The City is proposing to apply for a $500,000 United States Environmental Protection Agency Brownfields Cleanup Grant to help achieve this vision. The Friends of the Bloomingdale Trail and City of Chicago, in partnership with Operamatic, are hosting a public meeting so the community can learn more about the grant proposal and provide feedback. Please note this is not a design meeting.
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BLOOMINGDALE TRAIL
www.BloomingdaleTrail.org

1807-1815 N. Kimball Avenue
Public Meeting Summary

A public meeting to discuss the City's Brownfields Cleanup Grant Application for 1807-1815 N. Kimball Avenue was held at 6 pm at the Kimball Arts Center (1757 N. Kimball Avenue) on January 22, 2019. Approximately 20 people attended. After a brief introduction by Ben Helphand from Friends of the Bloomingdale Trail, a formal power point presentation was given by Abby Mazza of the City of Chicago, Department of Fleet and Facility Management (2FM), followed by a question and answer session. Also available to answer questions were Kimberly Worthington (2FM), Nelson Cheung (Chicago Department of Planning and Development), Shannon Flannigan and Matt Hildreth (AECOM), and Rosie Peterson (2FM). Ms. Peterson was available for Spanish translation; however, it was not needed. Attendees were provided a comment card and a project fact sheet (English/Spanish).

Overall, the meeting attendees were in favor of the proposed cleanup project. A summary of the questions and responses is provided below.

1. **Will the remediation result in a limited use of the eastern portion of the site?**
   After the trichloroethylene (TCE) concentrations are reduced and with implementation of engineered barriers and institutional controls similar to what will be used for the remainder of the site, the eastern portion of the site is not expected to have a limited use. For example, if the design calls for a community garden, it could still occur on the eastern portion using beds constructed of imported clean soil.

2. **What happens if the grant is not received, will the cleanup still occur?**
   If the City's grant application is not selected for an award, the City will continue to pursue alternative funding sources for the cleanup activities proposed in the grant. The City has identified and contacted two previous owners who conducted manufacturing operations on the Site to seek contribution from these entities.

3. **When will the remaining contamination that is not being addressed by the grant be remediated**?
   The City will continue to pursue additional funding sources for the cleanup activities not included as part of the grant project. The City has already contacted two previous owners who conducted manufacturing operations on the Site to seek contribution from these entities towards its investigation and remediation costs. Discussions are ongoing.

4. **At what point in the remediation process will the park design begin and will the remediation of the remainder of the site be factored into the park design?**
   The design of the park would be managed by the Chicago Park District. There is no timeline yet for the design phase as the Park District has not allocated funds; however, the TCE hot spot is considered a significant impediment to the Site's redevelopment and will help to advance the overall goal of redevelopment.

5. **How and when would the public be notified during the construction activities?**
   The City will keep the community informed throughout the duration of the project. The City will do this by posting updates on our website and holding public meetings such as this one as well as working with Friends of the Bloomingdale Trail to get communicate updates. The community will be notified well before any construction begins.

6. **How would the public be protected from impacts during the construction activities?**
   During construction, proper construction best management practices will be implemented to manage dust, there will be shoring along the eastern end if needed and air monitoring would be conducted to as needed.

7. **Why is the project period 3 years? Is that how long it will take to for the concentrations to be reduced?**
   The project period is three years to allow time for project design, reporting, contracting and implementation. Once the reagent is applied in the field, it is expected the TCE concentrations will be reduced almost immediately.

8. **Will the site be enrolled in the Illinois Site Remediation Program (SRP) and a No Further Remediation Letter obtained?**
   Yes, the site will be enrolled in the SRP. The IEPA will review and approve the proposed remediation plan before it is implemented; however, additional remediation beyond the scope of the grant will be required before an NFR can be obtained.

9. **What specific reagent is proposed and have the impacts to the soil stability after the mixing be addressed?**
   At this time, potassium permanganate is proposed but it is still being evaluated. Impacts of the soil mixing to the soil stability will be evaluated and addressed as part of project design and construction.

10. **How have the previous owners been engaged? Are there lawsuits?**
    We are in currently in contact with two previous owners and there are attorneys involved.

City of Chicago
U.S. EPA Brownfields Cleanup Grant Application
1807-1815 N. Kimball Avenue

January 22, 2019
Kimball Arts Center

FLEET & FACILITY MANAGEMENT

Meeting Agenda

- Welcome and Introductions
- Site Background
- Environmental Site Assessment Results
- U.S. EPA Cleanup Grant Application Information
- Next Steps

FLEET & FACILITY MANAGEMENT

Site Background

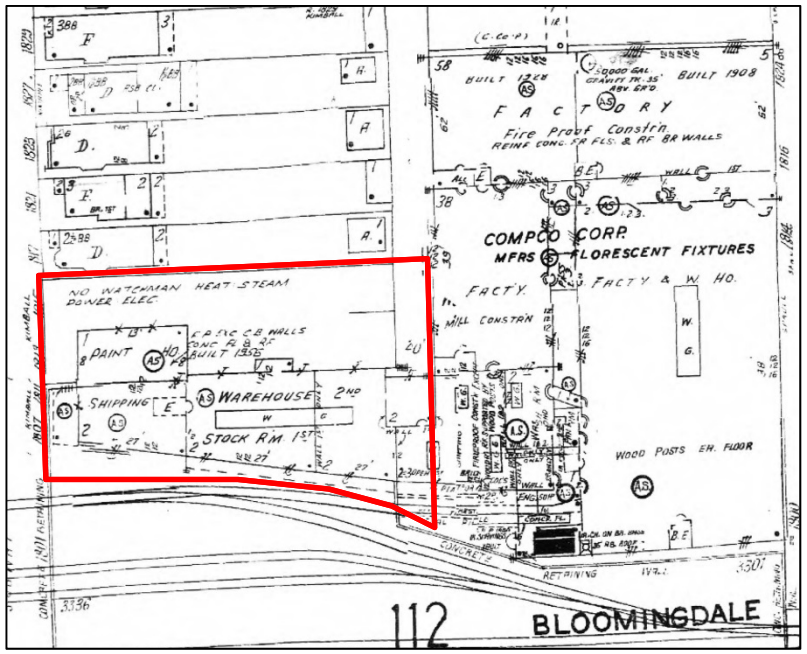
- The City of Chicago acquired the Site through foreclosure for future use as a public park space.
- The site was vacant at the time of acquisition.

FLEET & FACILITY MANAGEMENT

Phase I Environment Site Assessment (ESA)

- A Phase I ESA was performed to identify historical uses and recognized environmental conditions (RECs).
- Several RECs were identified associated with previous uses as a lumberyard and manufacturers of laundry machines and fluorescent fixtures, including painting, warehousing, and machine shop operations.

1975 Sanborn Map of Site



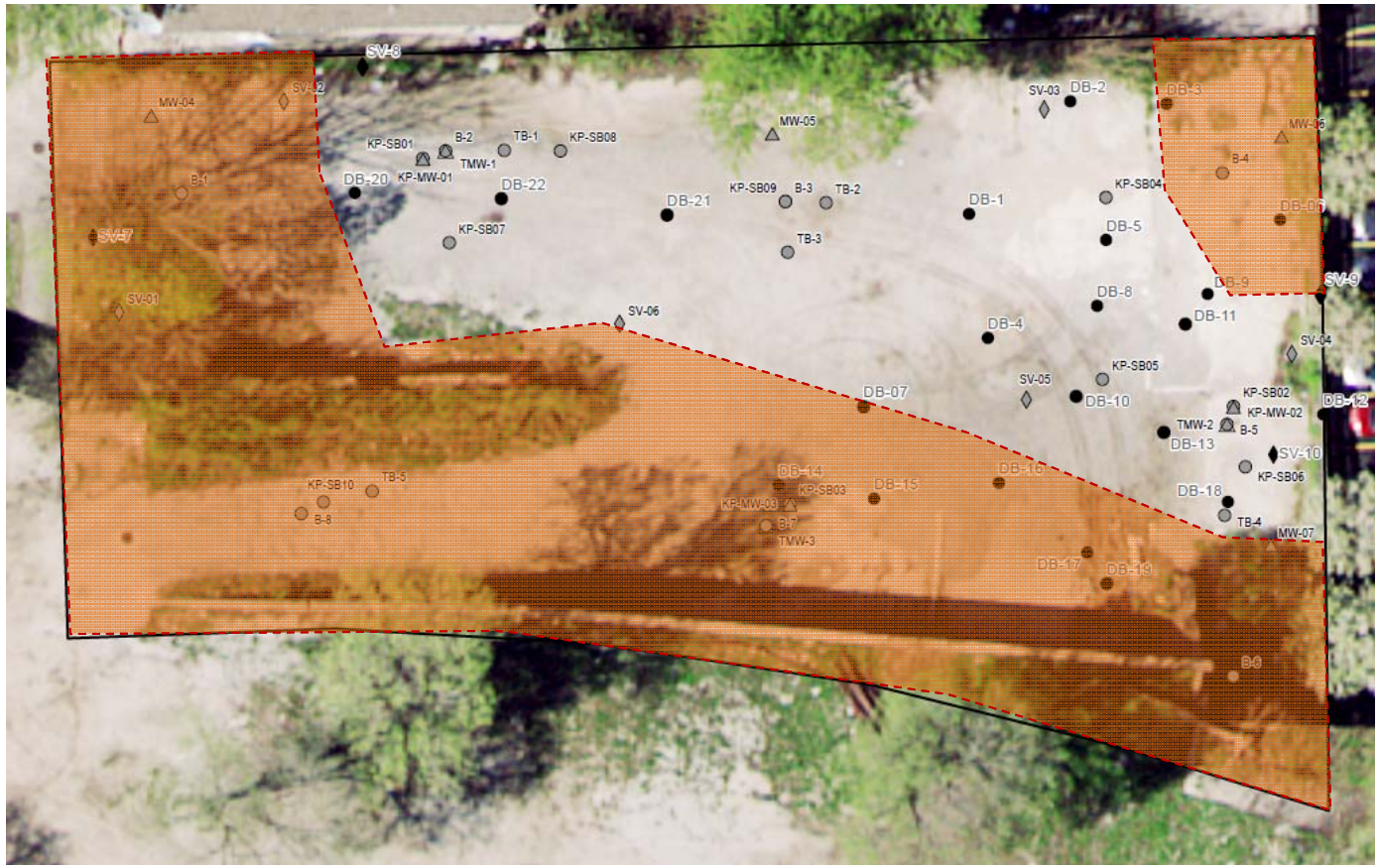
FLEET & FACILITY MANAGEMENT

Summary of Subsurface Investigations

Year	Purpose	Scope of Work
2010	Initial Phase II Environmental Site Assessment, based on Phase I RECs	• Soil sampling to depths of 6 to 24 feet • Groundwater sampling at three locations
2012	U.S. EPA Comprehensive Site Investigation (CSIR)	• Additional soil and groundwater sampling to 20 feet • Confirmation of volatile organic compound (VOCs) impacts (trichloroethylene or TCE)
2013	Determine vertical extent of VOC contamination and evaluate inhalation impacts	• Additional soil sampling to 30 feet • Additional groundwater sampling • Initial soil gas sampling
2018	Define extent of TCE hot spot area exceedances and soil vapor impacts, inform soil remediation	• Soil sampling for hot spot delineation • Additional groundwater and soil gas sampling • Collection of sample for remediation bench test

2FM
FLEET & FACILITY MANAGEMENT

Site Contamination - SVOCs



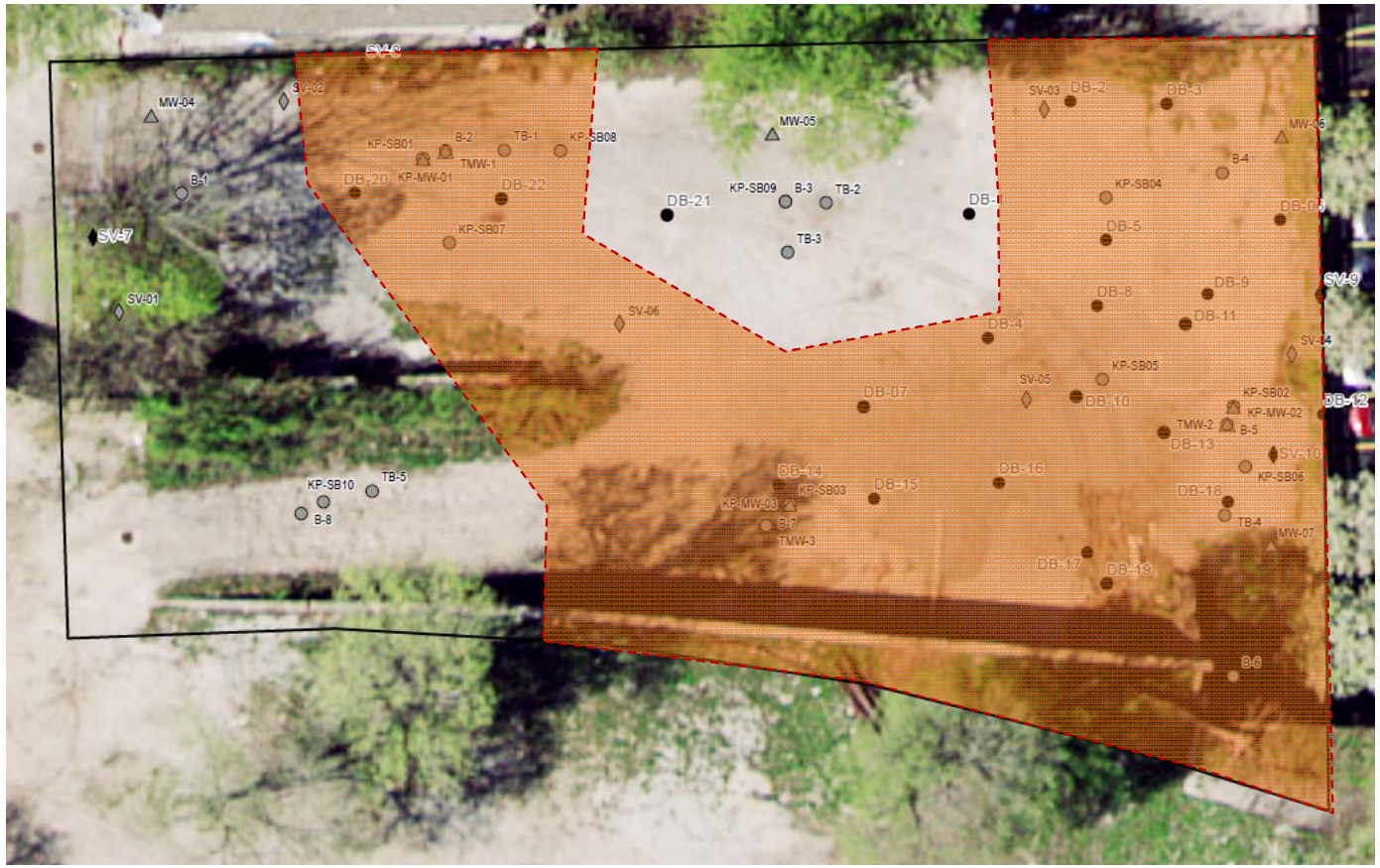
SVOCs exceeding Illinois Tier 1 site remediation objectives for soil ingestion and/or soil inhalation exposure pathways

- Lateral extent shown in **orange**
- Depths range from 0-14 feet below the ground surface

Figure 2 – Approximate Lateral Extent of Soil Impacts - Semi-Volatile Organic Compounds (SVOCs)

FLEET & FACILITY MANAGEMENT

Site Contamination - Inorganics



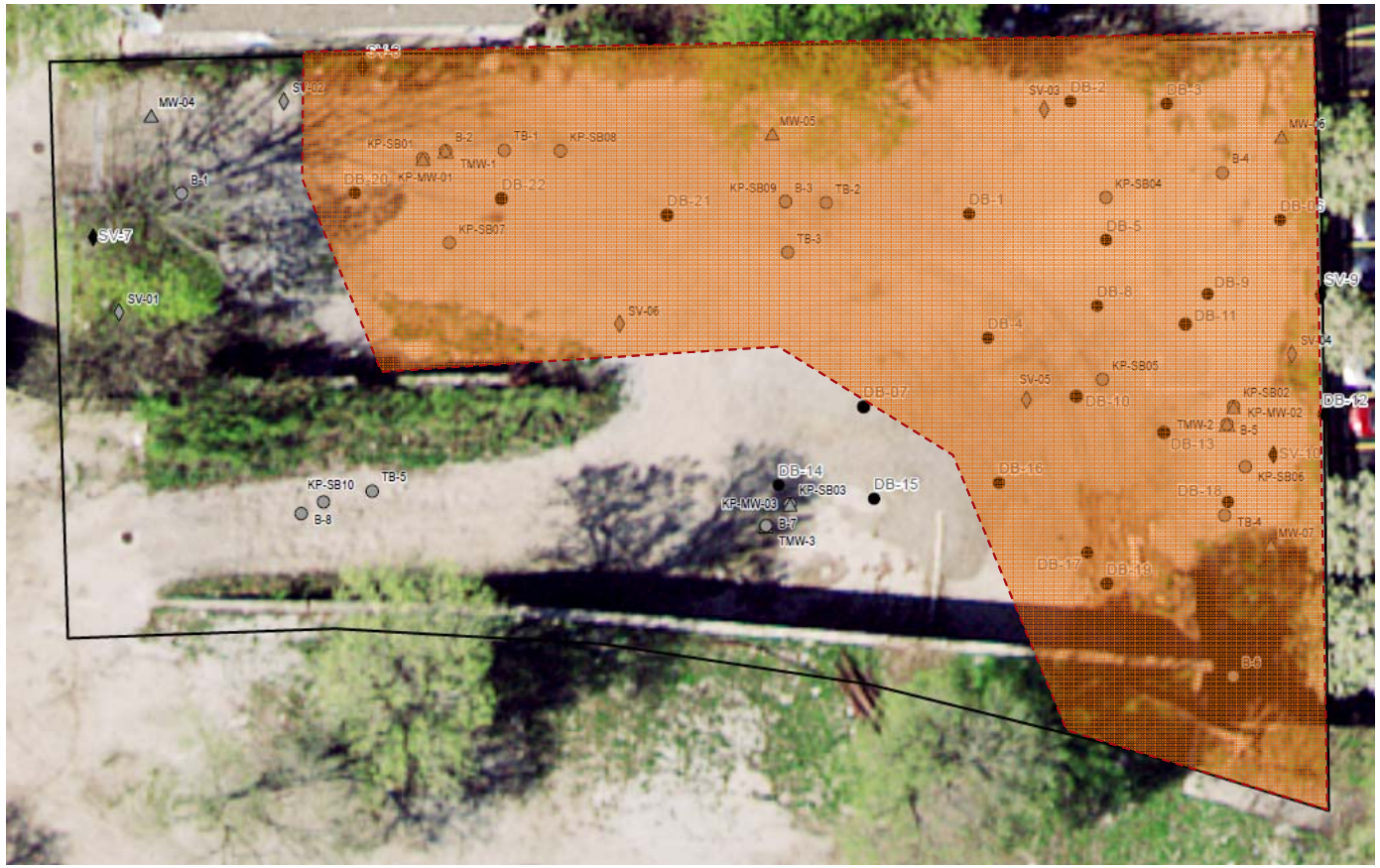
Inorganics exceeding Illinois Tier 1 site remediation objectives for soil ingestion and/or soil inhalation exposure pathways

- Lateral extent shown in **orange**
- Depths range from 0 to 6 feet below the ground surface

Figure 3 – Approximate Extent of Lateral Soil Impacts - Inorganics

FLEET & FACILITY MANAGEMENT

Site Contamination - VOCs



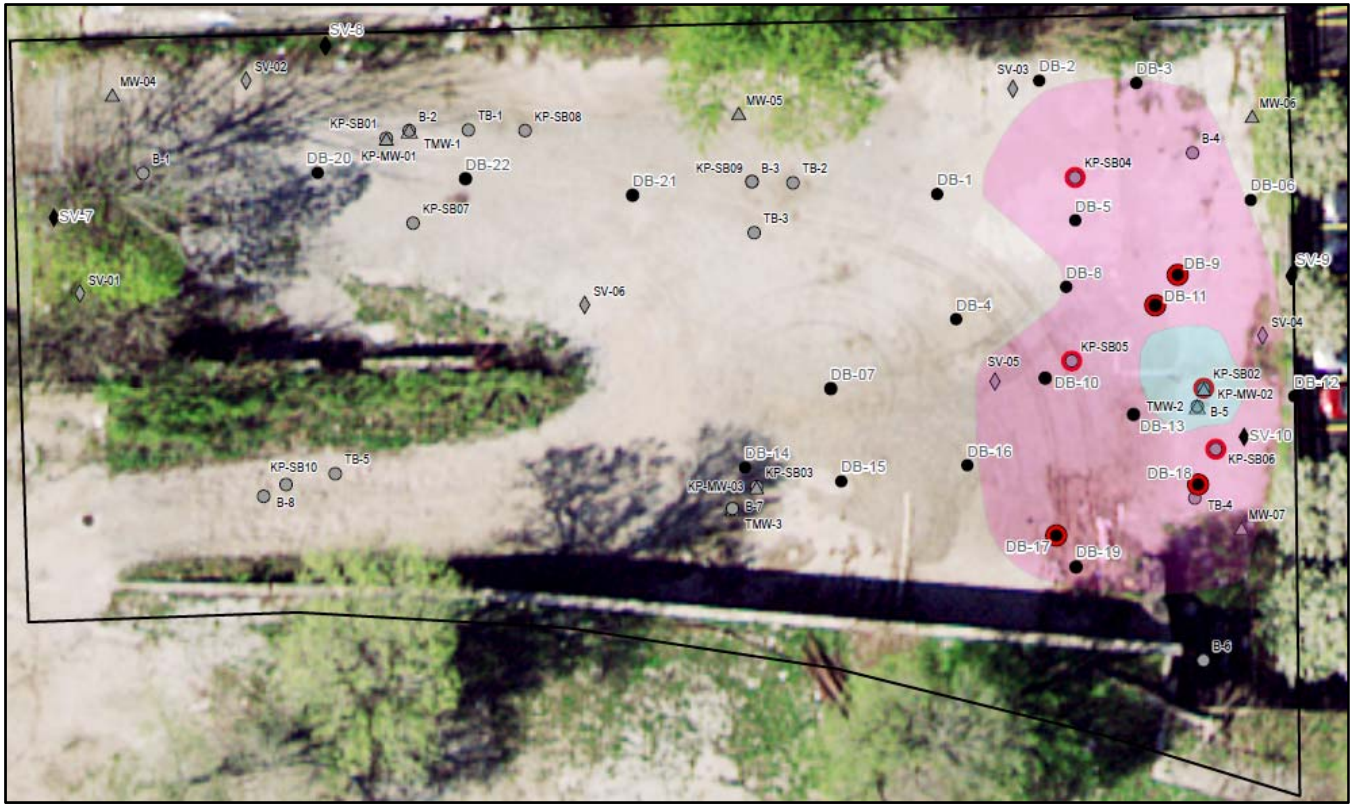
VOCs exceeding Illinois Tier 1 site remediation objectives for soil ingestion and/or soil inhalation exposure pathways

- Lateral extent shown in **orange**
- Depths range from 3 to 20 feet below the ground surface

Figure 1 – Approximate Lateral Extent of Soil Impacts - VOCs

FLEET & FACILITY MANAGEMENT

Site Contamination – TCE Source Area (or “hot spot”)



High concentrations of TCE in deep soils along eastern portion require active treatment or removal and are the focus of the grant

- **8-16 ft bgs (red)**
- **8-20 ft bgs (blue)**

FLEET & FACILITY MANAGEMENT

Site Contamination – Groundwater and Soil Vapor

Groundwater

- Exceedences of Class II groundwater objectives shown in **red**

Soil Vapor

- Exceedences of Soil Vapor Tier 1 indoor and outdoor ROs shown in **red**

- Soil Vapor Point highlighted in Blue indicate results are below applicable ROs
- Soil Vapor Points highlighted in Red indicate results are above applicable ROs
- Monitoring Wells highlighted in Blue indicate results are below applicable ROs
- Monitoring Wells highlighted in Red indicate results are above applicable ROs

FLEET & FACILITY MANAGEMENT

U.S. EPA Cleanup Grant Application

- Grant Amount: $500,000
- City's Cost Share: $100,000
- Awards Announcement: Spring 2019 (could be delayed)
- Project Period: 3 Years
- Application Due: January 31, 2019
- USEPA anticipates awarding 40 cleanup grants nationally

FLEET & FACILITY MANAGEMENT

Brownfield Grant Project

Scope of Work and Goal

- **Proposed Cleanup under Brownfield Cleanup Grant:** Reduction of TCE concentrations in hot spot area

  The cleanup activities to be performed under this grant are critical steps in preparing the Site for redevelopment.

- **Future Cleanup Actions:** Installation of engineered barriers and institutional controls to address contaminated soil and groundwater exposure pathways

- **Project's Goal:** Advance the future redevelopment of the site as a public park connected to The 606

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Analysis of Brownfield Cleanup Alternatives

Alternative	Effectiveness	Implementability	Cost
#1 No Action	**Not Effective** Would not address TCE hot spot	**Simple/effortless** No actions are required.	~$0
#2 Excavation & Disposal	**Very Effective** TCE hots spot area would be removed	**Moderate** Deep excavation may require dewatering and use of excavation support system	~$1,157,000
#3 In Situ Chemical Oxidation Treatment (ISCO) via Soil Mixing	**Very Effective** ISCO is a proven technology to reduce TCE concentrations. Soil mixing is the preferable delivery method for the Site's low-permeability soil.	**Moderate** Soil mixing may require dewatering and use of an excavation support system	~$720,000

The recommended cleanup alternative of Soil exceeding TCE C_{sat} Limit is Alternative #3 ISCO via Soil Mixing

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Brownfield Grant: Project Tasks

- **Grant Management (City staff):** Administering the brownfield grant, procurement and management of the environmental consultant and cleanup contractor, and coordination of environmental aspects of the future site redevelopment design.
- **TCE Environmental Cleanup (professional services)**: Completion of applicable regulatory reporting, remediation design, and oversight.
- **TCE Environmental Cleanup (construction contractor)**: Completion of the recommended remedial actions which are expected to include In-Situ Chemical Oxidation applied by soil mixing to reduce TCE to below the saturation limit in the eastern portion of the Site.
- **Community Engagement (City staff and professional services)**: Develop and inform public stakeholder groups about the cleanup and how it will impact redevelopment options, and evolve perceptions about brownfields and vacant space opportunities in the Logan Square and Humboldt Park neighborhoods and the City of Chicago at large.

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Brownfield Grant: Project Budget

Budget Categories		Project Tasks ($)				
		Task 1: Grant Management (City Staff)	Task 2: TCE Cleanup (Professional Services)	Task 3: TCE Cleanup (Construction Contractor)	Task 4: Community Engagement (Professional Services)	Total
Direct Costs	Personnel					
	Fringe Benefit					
	Travel					
	Equipment					
	Supplies					
	Contractual		$87,000	$506,000	$7,000	
	Other (include subawards) (specify type) _____					
Total Direct Costs			$87,000	$506,000	$7,000	$600,000
Total Indirect Costs		$0				$0
Total Federal Funding		$0	$87,000	$406,000	$7,000	$500,000
Cost share (20% of requested federal funds)*				$100,000		$100,000
Total Budget (Total Direct Costs + Indirect Costs + Cost Share)		$0	$87,000	$506,000	$7,000	$600,000

*The City is providing an additional $120,000 outside of the required match for a total budget of $720,000 to treat the TCE hot spot.

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How to Comment

- The grant application documents are available at the following locations:
  - Chicago Public Library's Humboldt Park (1605 N. Troy Street, Chicago, IL 60647) & Logan Square (3030 W. Fullerton Ave, Chicago, IL 60647) Branches
  - City of Chicago Department of Fleet and Facility Management (2FM), 30 N. LaSalle Street, Suite 300, Chicago, IL 60602
  - 2FM's website, within the Supporting Information section, located at the following address: https://www.chicago.gov/city/en/depts/dgs/supp_info.html
- Written comments accepted through January 25, 2019 to 2FM:
  - Attention of the Deputy Commissioner, Bureau of Environmental, Health & Safety Management at 30 N. LaSalle Street, Suite 300, Chicago, IL, 60602 or to 2FM_EHS_Notifications@cityofchicago.org.

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Next Steps

Review and Address Comments on Draft Application

- Draft Application available at Logan Square and Humboldt Park Libraries, 2FM's office and 2FM's website
- Written comments are due by **January 25, 2019**

Submit Application to U.S. EPA

- Due to U.S. EPA by **January 31, 2019**

Wait for Notification of Awards

- U.S. EPA typically awards grants 40 grants
- The public will be notified if the City is awarded the grant
- If awarded, the work would likely start in 4Q2019

2FM
FLEET & FACILITY MANAGEMENT

Questions

FLEET & FACILITY MANAGEMENT

Abigail Mazza

From: Ronit Mitchell <ronitmitchell@gmail.com>
Sent: Thursday, January 24, 2019 12:02 PM
To: 2FM_EHS_Notifications
Subject: US EPA Brownfields Cleanup Grant for 1807-1815 N Kimball

Dear Deputy Commissioner,

I was at the presentation on January 22 regarding the US EPA Brownfields Cleanup Grant, and am so appreciative of all the involvement and efforts to clean up the contamination and make 1807-1915 N Kimball a vibrant, welcoming , thriving, and valuable part of our neighborhood. I've lived here for almost two decades, the effect this green space will have is enormous. :) It will be exciting to have it connect to the 606 Bloomingdale Trail, too.

The meeting was very helpful to envision the steps needed to take. Thank you.
Good luck with getting this grant! Looking forward to hearing what the next steps are!

Kind regards,
Ronit Mitchell

USEPA Brownfields Cleanup Grant Application
Public Meeting
1807 -1815 N. Kimball Avenue
January 22, 2019

Name: Dan Daly **Email:** DPSD26@gmail.com

Comments: This Proposed Project would be welcome in the Community. The Cleanup & resulting green space would enhance the 606/ Bloomingdale Trail & CHICAGO!

Written comments accepted through January 25, 2019 to 2FM, Attention of the Deputy Commissioner, Bureau of Environmental, Health & Safety Management at 30 N. LaSalle Street, Suite 300, Chicago, IL, 60602 or to 2FM_EHS_Notifications@cityofchicago.org.

USEPA Brownfields Cleanup Grant Application
Public Meeting
1807 -1815 N. Kimball Avenue
January 22, 2019

Name: ANN M MCNAMARA **Email:** ANNMARIEMC@GMAIL.COM

Comments:

THE COMMUNITY MEETING WAS VERY INFORMATIVE. I THINK THE BENEFITS TO THE COMMUNITY WOULD BE TREMENDOUS AS WE MOVE TO GETTING MORE GREEN SPACE TO THIS URBAN AREA. I LOOK FORWARD TO HEARING THAT USEPA AWARDS THIS GRANT — A WORTHWHILE PROJECT!

Written comments accepted through January 25, 2019 to 2FM, Attention of the Deputy Commissioner, Bureau of Environmental, Health & Safety Management at 30 N. LaSalle Street, Suite 300, Chicago, IL, 60602 or to 2FM_EHS_Notifications@cityofchicago.org.

1807-1815 N. Kimball Avenue
Response to Public Comments

The City of Chicago received three written comments: one was sent to 2FM_EHS_Notifications@cityofchicago.org and two were received at the public meeting. Each comment and the City of Chicago's response are provided below.

No.	Comment	City Response
1	Dear Deputy Commissioner, I was at the presentation on January 22 regarding the US EPA Brownfields Cleanup Grant, and am so appreciative of all the involvement and efforts to clean up the contamination and make 1807-1915 N Kimball a vibrant, welcoming, thriving, and valuable part of our neighborhood. I've lived here for almost two decades, the effect this green space will have is enormous. :) It will be exciting to have it connect to the 606 Bloomingdale Trail, too. The meeting was very helpful to envision the steps needed to take. Thank you. Good luck with getting this grant! Looking forward to hearing what the next steps are!	Thank you for your comment. We will continue to provide updates and will notify the public when we know if we are selected for the grant.
2	This proposed project would be welcome in the community. The cleanup and resulting green space would enhance the 606/Bloomingdale Trail and Chicago!	Thank you for your comment. We will continue to provide updates and will notify the public when we know if we are selected for the grant.
3	The community meeting was very informative. I think the benefits to the community would be tremendous as we move to getting more green space to this urban area. I look forward to hearing that USEP awards this grant – a worthwhile project!	Thank you for your comment. We will continue to provide updates and will notify the public when we know if we are selected for the grant.

ELEVATED 1913

BLOOMINGDALE TRAIL

RE-ESTABLISHED 2015

Friends of the Bloomingdale Trail

Park Advisory Council

NAME	EMAIL	TELEPHONE	ADDRESS	VOLUNTEERING?
Roger Guerrero	roqguerrero@gmail.com		1639 N. St Louis Ave	✓
Lily Emerson	lily@opera-matic.org	312-206-9563	1642 N. Central Park	
[illegible]	[illegible]		[illegible]	
Alex Huebner	arthur&elli g@gmail.com		3733 W. Palmer	
Heather Haskins	westsidegirlygirl@gmail		1639 N. Louis	

ELEVATED 1913
BLOOMINGDALE TRAIL
RE-ESTABLISHED 2015

Friends of the Bloomingdale Trail
Park Advisory Council

NAME	EMAIL	TELEPHONE	ADDRESS	VOLUNTEERING?
Bonnie Tawse	bonnietawse@gmail.com	773.290.7063	5454 N. Glenwood	No
Chandler Greer	Chandler21k@gmail.com	267.918.8552	3537 W Lyndale.	?
Cardine O'Boyle	cardine.oboyle@TPL.org	312-564-8169	120 S. LaSalle #2000 60603	N
David Altenburg	david@gcasyr.org		3136 W Bloomingdale	
Junelle Reynolds	junelle.r@me.com		3536 W. Cortland	?
RONIT MITCHELL	MITCHELLRONIT@GMAIL.COM	312-402-8846	1916 N ST LOUIS AV	?
BETO DEFREITAS	beto.sao@GMAIL		1757 N. KIMBALL	
ANN MCNAMARA / Rick Vamos	ANNMARIEMC@GMAIL.COM		1915 N. ALBANY	?
Lucy Gomez Feliciano	lucygomez@sbcglobal.net		1936 N. Sawyer	
Alisa Mazur	alisamazur@gmail.com		1727 N. Rigdeway	
Mike Golub	mdgolub@cps.edu		3404 W McLean	Maybe