DEPARTMENT OF FLEET AND FACILITY MANAGEMENT
CITY OF CHICAGO

December 3, 2019

Jerry Minor-Gordon
U.S. Environmental Protection Agency (EPA)
5 Post Office Square
Mail Code: OSR
Boston, MA 02109-3912

Submitted through: grants.gov

Re: City of Chicago FY20 EPA 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 FY20 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 EPA 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
      Lori Lightfoot, Mayor
      Phone: (312) 744-3300, Fax: (312) 744-2324
      E-mail: Lori.Lightfoot@cityofchicago.org
      121 N. LaSalle Street, 5th Floor, Chicago, Illinois 60602

6. Population: 2,705,994[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 United States Census Bureau 2018 Population Estimates at:
https://www.census.gov/quickfacts/fact/table/chicagocityillinois,US/PST045218

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 · (217) 782-3397
JB PRITZKER, GOVERNOR JOHN J. KIM, DIRECTOR

217/524-2084

November 19, 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 Brownfield 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, I may be contacted at the above address or telephone number, or 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

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. Target Area and Brownfields: 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 communities most affected by the Site reside in Logan Square and Humboldt Park (herein referred to as "Target Area").

The Target Area has a history of industry and dense population resulting in contaminated properties and limited availability of land. Following the Great Fire of 1871, as well as the arrival of railways in the 1880s and 1890s, the Target Area experienced rapid growth including waves of European immigration. The Target Area was occupied by manufacturing and industry including bicycle, furniture, confection, and instrument makers. By 1960, however, much of the European-descended population had moved away. Starting in the 1980s, vandalism and crime rates increased, and even today the Target Area has a higher than average crime rate. When Chicago's economy shifted and many manufacturing jobs moved out of the city in the mid to late 1900s, major plants like Helene Curtis Cosmetics and Schwinn Bicycles shut down in the Target Area, as did other small factories.

In the mid-1990s, the elevated rail line that had served the Target Area closed, and the neighborhoods around the former rail tracks shifted to residential with burgeoning Hispanic and Latino communities. Hispanic and Latino residents comprised approximately 67% of Logan Square's populace by 1990 and approximately 48% of Humboldt Park's populace by 2000. In 2015, the former tracks were converted into an elevated greenway known as the Bloomingdale Trail, which offers locals a commuting corridor (bicycle and pedestrian) and recreation space.

The full park and Bloomingdale Trail network which came to be known as "The 606" included plans to convert the Site into an access park due to its location and ramp that ties into the elevated trail. The industrial legacy and dense population of the Target Area left very little land available. Community members in the Target Area have expressed concerns related to a lack of open spaces, access to transit, difficulty finding housing, and challenges in attracting new businesses. This project is an opportunity to transform the fenced-off, contaminated brownfield site into a multi-benefit public space that provides the neighborhood with access to transportation infrastructure.

1.a.ii. Description of Brownfields Site: The Site encompasses about 0.4 acres of vacant land covered in concrete or grass/soil and is about 0.5 miles from the nearest body of water (Humboldt Park Lake). Currently, fencing secures the Site to protect the public from its contamination. Soil, groundwater, and soil gas investigations found concentrations of volatile and semi-volatile organic compounds and metals exceeding applicable state cleanup criteria, including trichloroethene (TCE) concentrations in soil beneath the eastern portion of the Site that exceed the soil saturation (C_{sat}) limit, and exceedances of indoor inhalation remediation objectives. Illinois deems TCE exceeding the C_{sat} limit a "source area" and requires it to be remediated to prevent human health risks due to exposure.

The Site's contamination is likely due to releases from the long history of industrial and manufacturing activity that occurred both onsite and immediately adjacent since the late 1800s. These uses include: a lumberyard; metal, historic paint, lumber, machine shop, automobile, and other warehouse operations associated with a laundry machine and fluorescent light fixture manufacturing companies; and urban fill brought onto the Site.

1.b.i. Reuse Strategy and Revitalization Plans: The cleanup to be funded under this grant is the critical first step to enabling the Site to be reused as a public greenspace and improve access to green transportation infrastructure. The Site's reuse as public greenspace aligns with the following strategies outlined in the 2005 *Logan Square Neighborhood Association Quality of Life Plan*. These strategies include expanding and improving parks and recreational programs (Strategy 2); improving the health, safety, and wellbeing of residents and families (Strategy 6); 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 in the Target Area, 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 park connected to the Bloomingdale Trail. The *Bloomingdale Trail and Park Framework Plan* (2012) further developed plans for the Site as a major entry point to the elevated trail and priority location for a larger greenspace because of its location on the western portion of the trail which currently has a low park density. The closest existing park to the Site is 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 more park space.

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) indicated the Site is in an area of minimal flood hazard [FEMA "Zone X"]. Although it's deemed a minimal flood hazard, stormwater and flooding are identified as a top shock or threat in the City's *Resilient Chicago*, which provides strategies and goals to strengthen the City's ability to rebound and respond to shocks or stresses. By incorporating stormwater best practices into the final park design and adding a connection to The 606, this project would specifically advance the plan's goal of reducing flooding and improving transportation options in neighborhoods.

1.b.ii. Outcomes and Benefits: The activities performed under award of this grant are critical steps in advancing the Site cleanup and readiness for reuse as a public park. With 5,900 residents living within a 10-minute walk[1], the park at the Site is expected to be heavily used. Local businesses, including a brewery and kitchen, are already starting to invest and locate near this Site in anticipation of future opportunities a new park will bring. The future park development will include energy efficiency measures such as LED light fixtures and water conservation strategies will be investigated during park design. The Bloomingdale Trail has provided a safe commuting corridor and recreation space, which can reduce traffic congestion, and improve air quality and public health. However, as one project partner described, "the full project realization is incomplete; it's missing a tooth at Kimball[2]" where the Site, in its current state, is a brownfield rather than a community asset.

The Target Area has been made up of traditionally underserved communities who have not had sufficient access to open public spaces. Eliminating hazards on the Site and improving it for public use is an important factor in community planning efforts that would enhance health, create new recreational space, and improve social equity. Most of Logan Square is made up of communities where 50-80% of people are from low income and minority groups. Greater than 80% of Humboldt Park is made up of low income and minority groups, including 95-100% in the

[1] Assuming walking distance is 0.25 mile.
[2] Caroline O'Boyle, Trust for Public Land, at the November 20, 2019 Community Meeting held for this application.

southwestern half and 80-94% in the northeastern half. The southwestern half of Humboldt Park (approximately 1.1 mile from the Site) is part of the federal Opportunity Zone program for the state of Illinois which aims to offer tax incentives to encourage investment in low income communities. Although the Site is not within the Opportunity Zone, a large percentage of the Target Area residents are below the poverty line.

1.c.i. Resources Needed: 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. 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 total cost of the TCE C_{sat} remediation is estimated to be $720,000. The City of Chicago has allocated approximately $220,000 in a firm leveraged commitment from its Open Space Impact Fee Fund (OSIFF) 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. The purpose of the OSIFF is to fund the creation of new open space in the Chicago. Therefore, it is likely OSIFF, in addition to the Chicago Park District, would provide funding for the later stages of remediation (i.e. engineered barriers) and public park construction. In addition, the City has identified and contacted the successors to two previous owners who conducted manufacturing operations on the Site and who it believes caused or contributed to the site contamination. The City has demanded that these entities contribute to the payment of the costs of investigating and remediating the Site and is pursuing contribution from those parties.

The need for TCE C_{sat} remediation is the biggest obstacle to obtaining an No Further Remediation (NFR) letter the Illinois Environmental Protection Agency (IEPA) 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. The installation of engineered barriers will be completed in conjunction with Park District during the future park construction phase.

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 (i.e. gas, electric, fiber) and connecting commuters to infrastructure including roadways and green transportation (i.e. bicycle, pedestrian sidewalk) which can reduce traffic and improve air quality. The Site is also connected to the existing Chicago Transit Authority network, including bus lines and the nearby Blue Line train line.

2. COMMUNITY NEED AND COMMUNITY ENGAGEMENT

2.a.i. Community Need: The population of the Milwaukee Avenue District, which the 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 (14-30% of the population is below the poverty line compared to 17% for the City of Chicago) and high unemployment rate in the area

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

(5-14% compared to 8% for the City of Chicago) have left the community struggling to cover community necessities such as adding greenspaces. Resources are not available to facilitate the necessary environmental remediation to help revitalize the community. In particular, the Humboldt Park portion of the Target Area is made up of communities where 95-100% of residents are minority groups and 31% are below the poverty rate.

2.a.ii.(1) Health/Welfare of Sensitive Population: 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. The Site is secured by fencing to protect the public, in particular students at Harriet Beecher Stowe Elementary School (Appx. 800 feet from Site), small businesses such as Kimball Arts Center (Appx. 200 feet from Site), and residents of adjacent apartments, from the contamination present at the Site.

While these contaminants could pose a potential threat to the whole community, they are an especially significant threat to sensitive populations, including children, seniors, low-income, and minority populations, who are at higher risk for disease and adverse health conditions. The Target Area is comprised of high percentages of sensitive populations, as shown in Table 1, who are more susceptible to the negative effects of brownfields sites. Populations in the Target Area experience poverty and unemployment above that of the City average, and would benefit from access to affordable housing, jobs, health services, and other important resources such as safe, uncontaminated green spaces. As shown in Table 1, most people in these communities are minorities, while 15-30% are low income and about 25-30% are either younger than 15 or older than 65. The TCE remediation planned under the Grant would treat the highest concentrations of TCE and other organic chemicals at the Site, thereby addressing a contamination "source area" and reducing the potential for long-term public exposure to the contamination.

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

	Logan Square[1]	**Humboldt Park**[1]	**City of Chicago**
Population	74,606	56,248	2,705,994[2]
% Minority	93.1%	94.2%	59.4%[2]
% Age 0 – 15	17.5%	25.1%	-
% Age 65 +	5.7%	8.2%	-
Poverty Rate	14.5%	31.4%	17.4%[1]
Unemployment	5.2%	14.7%	8.3%[1]
Neighborhood Safety	86.3%	48.5 %	75.9%[1]
1 Data from Chicago Health Atlas 2019 at https://www.chicagohealthatlas.org/ 2 Data from 2018 US Census Bureau at https://www.census.gov/quickfacts/chicagocityillinois			

According to the Illinois Department of Public Health, between 2012-2017, there has been a life expectancy gap of 8.8 years between non-Hispanic blacks and whites in the City of Chicago; 90% of this can be attributed to chronic disease and obesity in the city including circulatory diseases, cancer, diabetes, respiratory disease, and liver and kidney diseases.

2.a.ii.(2) Disease and Adverse Health Conditions: Several cumulative public health issues, such as cancer and asthma, disproportionately affect residents of the Target Area, especially the

Humboldt Park neighborhood (See Table 2 below). 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.

Table 2. Disease Rates in Logan Square, Humboldt Park, and 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/			

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 the Target Area.

2.a.ii.(3) 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 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 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. and ii.: Project Partners and Roles

Table 3. Project Partners and Roles

Partner	**Specific Role and Point of Contact**
Friends of the Bloomingdale Trail (FOTBT)	As the official park advisory council for the Bloomdingdale Trail, their role is sponsoring and promoting open communication regarding this project and the Bloomingdale Trail and The 606. **Contact:** Ben Helphand helphand@gmail.com 773-677-7970
Chicago Park District (CPD)	As the end user of the Site and manager of The 606 the CPD will be kept informed of the remediation and provide input on future site design plans. **Contact:** Heather Gleason heather.gleason@chicagoparkdistrict.com 312-742-4685
Friends of Kimball Park (FOKP)	FOKP is set up as the future offical park adisory council for the Site's park once constructed. They will provide and help solicit direct input on the cleanup and redevelopment of the Site.

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

Partner	Specific Role and Point of Contact
	Contact: Roger Guerrero rogguerrero@gmail.com FOKP on Facebook
IEPA	IEPA oversees the Site Remediation Program (SRP) and will review and approve the proposed cleanup plan prior to implementation. They will also issue the NFR letter once the future remediation phase is complete. **Contact:** Jenessa Conner Jenessa.N.Conner@illinois.gov 217-524-2084
1st Ward Alderman Office	As an elected official, the Alderman will be able to provide public support and exposture for the project as well as provide and help solicit direct input on both the cleanup and redevelopment of the Site. **Contact:** Ald. Daniel La Spata info@the1stward.com 872-206-2685
Trust for Public Land (TPL)	TPL was a lead partner and involved with all aspects of The 606 development. They will be able to provide public support and exposture for the project as well as provide and help solicit direct input on the cleanup and redevelopment of the Site. **Contact:** Caroline O'Boyle chicago@tpl.org 312-750-9820
Chicago Department of Public Health	CDPH will assist and monitor for compliance with applicable health and safety ordinances during constrution work. **Contact:** David Graham Dave.Graham@cityofchicago.org 312-745-4034

2.b.iii. Community Input: The community has already and will continue to be engaged through public meetings, neighborhood outreach, digital updates on The City of Chicago Fleet and Facility Management (2FM)'s and project partner's websites, and social media. Initial community outreach has demonstrated a strong support for this effort. The City will build on this early support by designing the Community Engagement Plan in partnership with the project partners and reviewing it with the community before execution. The project partners each have a large active following and different ways to reach audiences.

It is anticipated, at a minimum, that community engagement events will occur at least quarterly and at critical milestones including prior to finalizing the remediation design plans (ABCA), before cleanup begins, and after the cleanup has completed. Between specific events, the City will provide updates and access to the project team through 2FM's and project partner's websites and social media. The City will solicit, consider and respond to community input in a meaningful way by making sure the community has an opportunity to provide input, hear about the project status and discuss their concerns. Early engagement with target populations will also create a smooth transition between the remediation work and the eventual site design and construction.

3. TASK DESCRIPTIONS, COST ESTIMATES, AND MEASURING PROGRESS

3.a. Proposed Cleanup Plan: The steps to cleanup and redevelop this site include TCE source removal, engineered barrier installation and institutional controls. Cleanup Grant funding will be used to reduce TCE concentrations below C_{sat} (i.e. remove "source material") which has been the primary environmental obstacle preventing Site redevelopment. The proposed TCE source removal activities include the following:

- Reduction of TCE to below the C_{sat} limit in approximately 981 cubic yards (CY) of soil in the 3,200 square-foot "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/analysis to confirm TCE concentrations are below the C_{sat} limit.
- Construction worker caution and soil management plan to ensure the safe handling and disposal of soils during these activities and during any future subsurface work.

After TCE source remediation has been completed, an engineered barrier will be installed, using a separate funding source, to address residual soil exceeding ingestion or inhalation remediation objectives. The design and construction of the engineered barrier will be completed prior to/ concurrent with Site redevelopment as a park. A deed restriction will ensure protection of remedy. No direct groundwater remedy other than TCE source removal is anticipated to prevent groundwater ingestion 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/Activities and Outputs: **Table 4. Task/Activity Summary and Outputs**

Task 1 - Grant Management
Implementation • EPA-Funded ($0): All grant management will be performed using 2FM's own resources. • Non EPA-Funded (in-kind): Grant/ project management performed by 2FM (with assistance from other City departments) will use in-house resources and includes grant administration, submittal of performance and financial reports, procuring and managing the Qualified Environmental Professional (QEP) and Remediation Contractor (RC), and coordinating the environmental aspects of the future site redevelopment design (to ensure project timing and budget success).
Schedule: Grant management including quarterly reporting over the three years. See details in Table 5.
Task/Activity Lead: Abby Mazza, Environmental Engineer, 2FM
Key Outputs: Performance and financial reporting, grant administration, and cleanup activities oversight
Task 2 - TCE Cleanup (Qualified Environmental Professional)
Implementation • EPA-Funded ($87,000): The QEP will provide design documents, regulatory reports, and remediation oversight/ confirmation sampling. Design documents include ABCA, bid specifications, drawings, Quality Assurance Project Plan (QAPP) and Health and Safety Plan (HASP). Regulatory reports include enrollment into IEPA's Site Remediation Program (SRP), updating the CSIR, and development of a Remediation Objectives Report (ROR)/Remedial Action Plan (RAP). • Non EPA-Funded ($0): All TCE Cleanup QEP services are described above and EPA-funded
Schedule: Q2 2021 through Q1 2022 See details in Table 5.
Task/Activity Lead: Qualified Environmental Professional
Key Outputs: A QAPP and HASP approved and accepted by EPA; and a CSIR/ROR/RAP will be completed with recommended remedial actions and approved by IEPA via the SRP.
TASK 3 - TCE Cleanup (Remediation Contractor)
Implementation • EPA-Funded ($408,000): The Remediation Contractor will mobilize to the site, construct and manage a decontamination area, complete excavation; stockpiling and reuse of top 8 ft of soil located above TCE-impacted zone and will treat soil by In-Situ Chemical Oxidation (ISCO) applied by soil mixing to reduce TCE. • Non EPA-Funded ($100,000): Air monitoring, installation of an excavation support system (sheet piling assumed) and dewatering during the ISCO treatment using potassium permanganate.
Schedule: Q2 2022-Q1 2023. See details in Table 5.
Task/Activity Lead: Remediation Contractor
Key Outputs: Successful treatment of soil below TCE C_{sat} limit, as confirmed by soil sampling results.

TASK 4 - Community Engagement
Implementation • EPA-Funded ($5,000): 2FM's contractors will assist with preparation of materials and attending community engagement events. • Non EPA-Funded: ($0): Community engagement will be provided by 2FM's in-house resources throughout the project to develop and inform public stakeholder groups about the cleanup and how it will impact redevelopment options.
Schedule: Community Engagement will extend the duration of the three years and will include regular digital communication and quarterly meetings. See details in Table 5.
Task/Activity Lead: Abby Mazza, Environmental Engineer, City of Chicago
Key Outputs: Community engagement plan, community meetings with advertisements, meeting minutes/presentation materials, Final ABCA.

A general timeline of activities is included below **Table 5.**

Table 5. Activities, Tasks, and Outputs	***2021***				***2022***				***2023***			
TASK 1: Project Management by 2FM												
- Prepares/ execute RFP for consultant & contractor												
- Prepares/ executes contracts with consultant & contractor												
- Initial meeting (review goals, timeline, roles)												
- Manage grant, contractors and reporting through grant term												
TASK 2: Environmental Cleanup (professional services)												
-2FM/Consultant prepares QAPP/HASP and finalize ABCA												
- Consultant enrolls Site in SRP and prepares CSIR/ROR/RAP												
- IEPA reviews and approves CSIR/ROR/RAP												
- 2FM/Consultant completes project designs for Site												
- Consultant conducts remediation oversight												
TASK 3: Environmental Cleanup (Reduction of TCE)												
- Contractors complete ISCO soil mixing												
TASK 4: Community Engagement												
- 2FM regularly engages community via electronic updates												
- 2FM meets with community prior to critical milestones												
- 2FM incorporates community feedback from meetings												

3.c. Cost Estimate: The cleanup grant budget summary is provide in below **Table 6**.

Table 6		**Project Tasks ($) Hazardous Substances**				
Budget Categories		Task 1: Grant Management	Task 2: TCE Cleanup (QEP)	Task 3: Cleanup (Contractor)	Task 4: Community Outreach	Total
Direct Costs	Personnel	-	-	-	-	-
	Fringe Benefits	-	-	-	-	-
	Travel	-	-	-	-	-
	Equipment	-	-	-	-	-
	Supplies	-	-	-	-	-
	Contractual	-	$87,000	$408,000	$5,000	-
	Other (incl. sub)	-	-	-	-	-
Total Direct Costs		-	$87,000	$408,000	$5,000	$500,000
Total Indirect Costs		-	-	-	-	-

Table 6	Project Tasks ($) Hazardous Substances				
Budget Categories	Task 1: Grant Management	Task 2: TCE Cleanup (QEP)	Task 3: Cleanup (Contractor)	Task 4: Community Outreach	Total
Total Federal Funding	-	$87,000	$408,000	$5,000	$500,000
Cost share (20% fed)	-	-	$100,000	-	$100,000
Total Budget (Direct + Indirect + Cost Share)	-	$87,000	$508,000	$5,000	$600,000

Task 1 – $0/In-Kind Services for Grant Management provided by 2FM/ City in-house resources
Task 2 - $39,000 Remedial Design: ABCA/specs/drawings/HASP/QAPP (325 hrs. at avg. $120/hr.), $23,000 regulatory reporting including SRP CSIR/ROR/RAP (200 hrs. at avg.$115/hr.); and $25,000 for field oversight and confirmation sampling ($5000 for lab costs and 200 hrs. at avg. $100/hr).
Task 3 - $71,200 for site mobilization and preparation and decontamination facilities; $336,800 towards ISCO treatment of 981 CY of soil down to 20 feet; and $100,000 for air monitoring, excavation support, and dewatering during ISCO. Costs estimated in Remedial Action Cost Engineering Requirements (RACER) Software.
Task 4 - $5,000 Meeting/engagement preparation and implementation: 45 hrs at avg rate of $111/hr.

3.d. Measuring Environmental Results: Tracking and evaluating progress will be done by 2FM project management staff who routinely enroll and manage remediation of sites in the SRP, and who can draw on departmental staff with experience executing EPA Brownfields Grants. The Site will be enrolled in IEPA's SRP which requires preparation and IEPA approval of CSIR, ROR, and RAP reports prior to completing remediation. Tasks 2 and 3 results 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 IEPA approval of the CSIR/ROR/RAP. IEPA approval of the RAP 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 professional and cleanup contractor in a manner that completes the planned remediation and documentation in accordance with the Grant schedule. Task 1 will also be measured by successful completion of quarterly and annual reporting. Task 4 results will be evaluated by documenting events and postings where project information is shared with the public.

4. PROGRAMMATIC CAPABILITY AND PAST PERFORMANCE

4.a.i. Organizational Structure: Since 1992, the City of Chicago's brownfields group within 2FM Environmental Health and Safety Bureau has managed over $168 million in federal, state and private funds. 2FM oversees the environmental due diligence for all properties bought and sold by the City, including hiring QEPs to prepare, or reviewing developers' Phase I and II ESAs and IEPA SRP documents, such as Remedial Action Plans and Completion Reports.

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, manages the Sites, is involved in community engagement and determines the appropriate end use. DPD also manages many of the economic tools that the City would likely use to fund future phases of the project, including TIF districts and the OSIFF. The Department of Law provides real estate transaction support, and drafts and negotiates development agreements.

4.a.ii. Key Staff: Ms. Abby Mazza from 2FM will oversee all aspects of the grant requirements. Ms. Mazza is a licensed professional engineer with over 17 years of experience in environmental consulting focusing on brownfield redevelopment. She has managed 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 SRP. Project managers for the City's past Brownfields Assessment Grants will be available to assist Ms. Mazza with grant requirements such as quarterly reports and entering site data into the Assessment, Cleanup and Redevelopment Exchange System (ACRES).

4.a.iii. 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, following the competitive procurement provisions of 2 CFR §§ 200.317 through 200.326, 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, either of which will follow the competitive procurement provisions of 2 CFR §§ 200.317 through 200.326.

4.b.i.(1). Current/Previous Grants: 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 the Grand Prize.

The three most recent grants include the following:

1. **2006 Petroleum Area Wide Assessment Grant:** Ten Phase I and 9 Phase II ESAs were completed of which six sites were completed under Illinois SRP. Of the six sites completing cleanup planning activities with the grant, four were developed as green or park space.
2. **2008 Hazardous and Petroleum Area Wide Assessment Grant:** Eight properties, including the Kimball Avenue Site, were assessed, two of which were developed as green or park space.
3. **2016 Hazardous and Petroleum Area Wide Assessment Grant:** Twelve sites have been assessed 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, a second property to be used as a park with access to the bike trail, and eight sites acquired by the City through tax reactivation.

4.b.i.(2). Compliance with Grant Requirements: All tasks described in the work plans of all three grants were completed, quarterly reports were submitted, and all sites were accurately entered in ACRES. All the grant funds for the two closed grants have been expended, and City funding was leveraged for additional investigation and final remediation and development. All the funds for the current grant have been allocated.

Attachment A

Documentation for Leveraged Resources

DEPARTMENT OF PLANNING AND DEVELOPMENT
CITY OF CHICAGO

December 3, 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: EPA FY20 Brownfields Cleanup Grant Application
1807 – 1815 N. Kimball Avenue

Dear Ms. Worthington:

The Department of Planning and Development is a partner with the Department of Fleet and Facility Management for the application of grant assistance from the U.S. Environmental Protection Agency (EPA) for 1807-1815 N. Kimball Avenue (Kimball Site).

In support of this project, the Department has allocated $220,000 from its Open Space Impact Fee Fund 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% 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 the successors to two previous owners who conducted manufacturing operations on the Site and who it believes caused or contributed to the site contamination. The City has

demanded that these entities contribute to the payment of the costs of investigating and remediating the Site and is pursuing contribution from those parties.

9. Sites Requiring a Property-Specific Determination

The site does not require 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.
(d) The City of Chicago did not cause or contribute to any release of hazardous substances at the Site.
(e) 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) Bureau of Environmental Health and Safety Management (EHS Bureau) will manage the grant and associated cleanup work. 2FM's EHS Bureau has multiple staff experienced in successfully managing grant-funded brownfields investigations and cleanups at City-owned sites. The EHS Bureau 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 as part of the cleanup response. 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

Personnel from 2FM's EHS Bureau presented the City's intent to apply for the grant to the public at the Bloomingdale Trail Park Advisory Council's quarterly meeting. A representative from the City's Department of Planning and Development also attended the meeting. The meeting was held at the Simons Fieldhouse (1640 N. Drake Ave.) located near the Site on November 20, 2019 at 6 pm. A meeting notice was published in English the Chicago Sun-Times on November 10 and 17, 2019 and in Spanish in Hoy (a Chicago Tribune publication) on November 15, 2019. See Attachment C for meeting documentation.

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

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 Notice**
- **Meeting Summary, Public Comments and Response to Comments**
- **Meeting Presentation**
- **Meeting Sign-In Sheets**

Prepared for:

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

Prepared by:

AECOM
Chicago, Illinois
60585513
November 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
Chicago, Illinois

Prepared by:

AECOM
Chicago, Illinois
60585513
November 2019

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 Investigation

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 Observed and Potential Changing Climate Conditions in Site Area

The NOAA National Centers for Environmental Information State Climate Summary for Illinois (Frankson, R., K. Kunkel, S. Champion, B. Stewart, D. Easterling, B. Hall, and J. R. Angel, 2017: Illinois State Climate Summary. *NOAA Technical Report NESDIS 149-IL,* 4 pp) was reviewed to assess observed and potential climate changes for northern Illinois in order to evaluate how potential adverse impacts from changing weather events might impact the proposed cleanup remedies for the Site.

The NOAA Summary indicates that the area has experienced a temperature increase of 1 degree F since the beginning of the 20th century, with the warming concentrated in winter and spring. Illinois has experienced a dramatic increase in extreme precipitation events (over 2 inches of precipitation) since 1995, which has negative impacts on both agriculture and urban areas, where heavy rains falling on impervious surfaces with inadequate infrastructure cause urban flooding. Overall precipitation and extreme precipitation events are projected to increase in northern Illinois in the future, with spring precipitation projected to increase 15 to 20% by 2050 as compared to the late 20th Century under a high emissions scenario.

2.5 Project Goal

The 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 Bloomingdale Trail, allowing it to serve as an access point to the elevated greenway and multi-use recreational path (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. Installation of final engineered barriers required to receive an NFR letter would be completed during the future park construction phase.

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 will 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. Engineered barrier installation would occur during the future park construction phase.

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.

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 the cost, implementability, and effectiveness 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 three alternatives warranted further consideration and have been evaluated in subsequent sections, which also include an evaluation of the climate change resilience of these three alternatives:

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), ability to accommodate the expected effects of climate change (climate change resilience), 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.

Following completion of remedial excavation, additional actions would be implemented during future park construction phase 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, and this delivery method allows some opportunity to add reagent and re-treat an area that fails confirmation sampling without requiring a later remobilization.

Following completion of source material remediation, additional actions will be implemented during the future park construction phase 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 barriers 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. These engineered barriers can be incorporated into the future park design and installed during park construction. 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 barriers 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. These engineered barriers can be incorporated into the future park design and installed during park construction. 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 Climate Change Resilience

Based on the observed and predicted climate changes for the Site area described above, the increase on overall precipitation and increase in frequency of extreme precipitation events appears to be the most important factor to evaluate the remediation alternatives against, due to the vulnerability of Chicago to urban flooding.

Alternative #1: Under Alternative 1 (No Action), significant portions of the site would remain paved with the current impervious surfaces, and no improvements to site stormwater management would be made. Presumably, stormwater from rainfall events would continue to rapidly run off the Site to the storm sewer system.

Alternative #2: Following remedial excavation and completion of the Site as a park, it is expected that the Site would be primarily covered with permeable surface materials and would include landscaped plant cover over most of the Site. In addition, the park landscape design will take into account stormwater concerns and can be designed to capture and retain stormwater in a manner that releases less rain water to the storm sewer system and does so more slowly, as compared to an impervious surface. Best management practices will be used to manage stormwater and prevent erosion of soil from the Site during remedial excavation construction work.

Alternative #3: The climate change resilience for Alternative #3 would be essentially the same as Alternative #2, described above. The end use and design of the planned park would be the same as described above, and the physical remediation process would also be similar as Alternative #2.

4.2.4 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. Both Alternatives #2 and #3 would improve the climate change resilience of the Site due to a reduction in impervious surfaces and an opportunity for new landscaping design to maximize the capture and retention of stormwater. 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

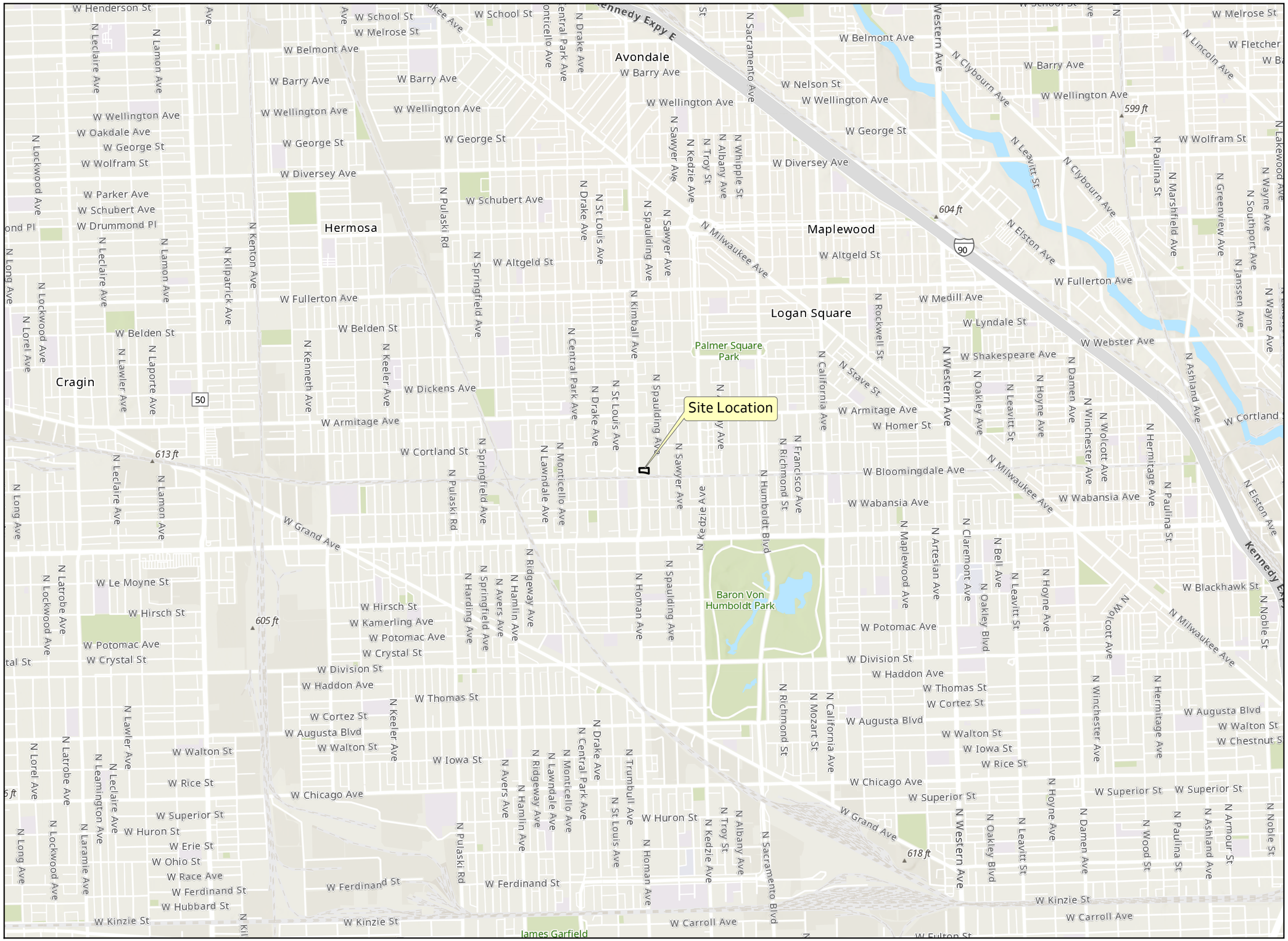
1. Reduce TCE concentrations below soil saturation concentration (C_{sat})
2. Eliminate soil ingestion and inhalation exposure pathways(s) for soil exceeding the TACO Tier 1 SROs

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

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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

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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

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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
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

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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

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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

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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

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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

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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
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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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
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

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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

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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

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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

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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

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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
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

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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
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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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 City will be presenting at Bloomingdale Trail Park Advisory Council's quarterly meeting:

Wednesday, November 20, 2019
6:00 PM

Simons Fieldhouse
1640 N. Drake Avenue
Chicago, IL 60647

The draft grant application documents will be available starting November 15, 2019 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 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) 2020 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: DECEMBER 3, 2019

WRITTEN COMMENTS ACCEPTED THROUGH NOVEMBER 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
para 1807-1815 N. Kimball

FLEET & FACILITY MANAGEMENT

¿CÓMO PUEDO PARTICIPAR?

La ciudad presentará en la reunión trimestral del consejo asesor de Blommingdale Trail Park:

Miércoles 20 de noviembre de 2019
6:00 PM

Simons Fieldhouse
1640 N. Drake Avenue
Chicago, IL 60647

Los documentos de solicitud de subvención estarán disponibles el 15 de Noviembre en las siguientes ubicaciones:

- 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, https://www.chicago.gov/city/en/depts/dgs/supp_info.html

La ciudad de Chicago está aplicando para una subvención de limpieza de 2020 Brownfields 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 LA SUBVENCIÓN

Si se otorga, 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 DE 3 AÑOS** | **SOLICITUD DEBIDA: 3 DE DICIEMBRE DE 2019**

COMENTARIOS ESCRITOS ACEPTADOS HASTA EL 25 DE NOVIEMBRE 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
City of Chicago Notice of Public Meeting and Solicitation of Public

ADORDERNUMBER: 0001097255-01
PO NUMBER: Brownfield Cleanup Grant
AMOUNT: 121.60
NO OF AFFIDAVITS: 1

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 presenting at the Bloomingdale Trail Park Advisory Council's quarterly meeting on Wednesday, November 20, 2019 at 6:00 PM at the Simons Fieldhouse, 1640 N. Drake Avenue, Chicago, IL regarding the City's intent to apply for a U.S. Environmental Protection Agency (EPA) FY20 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 November 15, 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 November 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**.

11/10, 11/17/19 #1097255

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): 11/10/2019, 11/17/2019

Chicago Sun-Times

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

by 

Mary Hoffman
Account Manager - Public Legal Notices

This 17th Day of November 2019 A.D.

CITY OF CHICAGO, DEPT. OF PLANNING & DEVELOPMENT
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Chicago Tribune Company hereby certifies that it is the publisher of the Chicago Tribune; that the Chicago Tribune is an English language newspaper of general circulation, published daily in the City of Chicago, County of Cook and State of Illinois; that the Chicago Tribune has been so published continuously for more than one year prior to the date of first publication mentioned below and is further a newspaper as defined in Ill. Rev. Stat. Ch. 100, SS 5 & 10; that the undersigned is the duly authorized agent of the Chicago Tribune Company to execute this certificate on its behalf; and that a notice of which the annexed is a true copy was printed and published in said newspaper

On the following days, to-wit: **Nov 15, 2019**.

Executed at Chicago, Illinois on this

15th Day of November, 2019, by

Chicago Tribune Company

Serina Johnston

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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 estará presentando en la reunión trimestral del consejo asesor de Blommingdale Trail Park el Miércoles 20 de noviembre de 2019 a las 6:00 p.m. en Simons Fieldhouse, 1640 N. Drake Avenue. con respecto a la intención de la Ciudad de solicitar una subvención de limpieza de Brownfield (año fiscal 2020) 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 15 de noviembre 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 noviembre 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.
11/15/2019 6511633

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FLEET AND FACILITY MANAGEMENT

2FM provides City Departments operational support for fleet and facility services

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

https://www.chicago.gov/city/en/depts/dgs/supp_info/1807_1815_N_Kimball_Ave.html (https://www.chicago.gov/city/en/depts/dgs/supp_info/1807_1815_N_Kimball_Ave.html)

1807-1815 N. Kimball Ave Fiscal Year (FY) 2020 U.S. EPA Brownfields Cleanup Grant Draft Application

Notice of Public Meeting and Solicitation of Public Comments

Last year, the City of Chicago applied for a $500,000 United States Environmental Protection Agency Brownfields Cleanup Grant to help achieve this vision but was not selected. The City will be re-applying again this year and is presenting at the **Bloomingdale Trail Park Advisory Council's quarterly meeting at 6 pm on November 20, 2019 at Simons Fieldhouse, 1640 N. Drake Avenue.** This meeting is an opportunity for the community to learn more about the grant application and provide feedback. 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. Please note this is not a design meeting and information shared will be similar to last year.

The draft grant application documents are available starting on November 15, 2019 for download below and 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 November 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.

FY2020 Draft Application:

- **FY20 Draft Brownfield Cleanup Grant Application_1807-15 N Kimball_2019-11-14 (/content/dam/city/depts/dfm/supp_info/FY20_Draft_Brownfield_Cleanup_Grant_Application_1807-15_N_Kimball_2019-11-14.pdf)**
- **Cleanup Grant Public Meeting Presentation_1807-1815 N Kimball_2019-11-20 (/content/dam/city/depts/dfm/supp_info/Cleanup_Grant_Public_Meeting_Presentation_1807-1815_N_Kimball_2019-11-20.pdf)**

FY2019 Final Application:

- City of Chicago FY19 EPA Cleanup Grant Application FINAL (/content/dam/city/depts/dfm/supp_info/City_of_Chicago_FY19_EPA_Cleanup_Grant_Application_FINAL.pdf)
- ABCA Draft Final Submitted_1807-1815 N Kimball_1-30-2019 (/content/dam/city/depts/dfm/supp_info/ABCA_Draft_Final_Submitted_1807-1815_N_Kimball_1-30-2019.pdf)

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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1 2 Comments

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WED, NOV 20

Bloomingdale Trail PAC meeting

Simons Park · Chicago, IL

19 people interested

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Public Meeting Summary - 1807-1815 N. Kimball Avenue

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 Simons Fieldhouse (1640 N. Drake Avenue) on November 20, 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 Nelson Cheung (Chicago Department of Planning and Development), Shannon Flannigan (AECOM), and Noemy Quinones (2FM). Ms. Quinones was available for Spanish translation. Attendees were provided a comment card and a project fact sheet (English/Spanish).

Overall, the meeting attendees were strongly in favor of the proposed cleanup project and the majority had attended a similar meeting for the proposed cleanup project last year. A summary of the questions and responses is provided below.

1. **Why was In-Situ Chemical Oxidation (ISCO) treatment via soil mixing chosen over excavation? Wouldn't excavating the contaminated soil and disposing of it offsite (i.e. dig and haul) be simpler?**
   As part of the grant application process, the City prepared a Draft Analysis of Brownfield Cleanup Alternatives (ABCA), which evaluated both ISCO and dig and haul alternatives. Both alternatives were determined to have a high effectiveness level. Although dig and haul can be a simpler alternative, due to the depth of contamination (~20 ft below ground surface) it was determined to have a moderate implementability level, the same as ISCO. In addition, due to the high contaminant concentrations and associated landfill disposal costs, dig and haul would also cost more than $437,000 more than ISCO. Therefore, ISCO treatment via soil mixing was selected.

2. **What can residents do to help with the application?**
   Meeting attendees expressed great interest in showing and documenting their support for the project for the application. The City requested written comments, including letters of support, by November 25, 2019 which could be submitted in person and via e-mail to 2FM_EHS_Notifications@cityofchicago.org.

3. **Is there an exposure concern right now?**
   The Site is currently vacant, fenced in and mostly covered with gravel and/or asphalt/concrete, limiting direct exposure to the contaminated onsite soil. There were immediate outdoor inhalation concerns identified from the previous sampling results. Offsite soil contamination, if any, is likely to be directly east of the primary site impacts. The City is currently working with the adjacent east property owners to get approval to go on their site and collect samples.

4. **What did the winning application include?**
   Based on our de-brief with EPA after the awards were given, the City's application was very strong. Suggested areas of improvement included providing more details on cost, community involvement, history of manufacturing in the area and status of leveraged resources. As far as other applications, they are not available on EPA's website or on the awardee's websites that the City could find.

5. **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.

6. **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.

7. **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.

8. **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.

9. **What other funding sources are available? Can other large developers in the area be required to contribute towards cleaning up this site, such as the recent TIF funded Lincoln Yards project developer?**
   The source of the City's match and currently allocated funding for this project is the Open Space Impact Fund. It is very likely additional funds from this fund will be allocated for future phases if a grant is received from EPA. 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.

   The Lincoln Yards project is not in or nearby the Target Area for this project and therefore would not be an applicable source of additional funding. The City will continue to pursue additional funding sources for the cleanup activities not included as part of the grant project.

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	I support the Brownfields Cleanup at 1807-1815 Kimball Ave. I recently moved to the 3400 block of W. Cortland and walk by the contaminated site on Kimball daily. To have the site cleaned would elevate 606 visitor experience (no pun intended) and better connect our neighborhood with the rest of the near northwest. There are park spaces ground-level connected to the 606, but we are left behind until steps are taken to make Kimball Park a reality. Please let me know how to help.	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	I support the Brownfields Cleanup at 1807-1815 Kimball Ave. I've lived at 1916 N. St Louis Ave for decades and feel the transformation of living by the 606. Neighbors and I are longing to have Kimball Park decontaminated so that we can begin the imagining of a park space by us, for kids, families and friends. There are park spaces ground-level connected to the 606, but we are left behind with limited green space for the community until steps are taken to make Kimball Park a reality. Please let me know how to help.	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	support the Brownfield Cleanup at 1807-1815 Kimball Ave. I've lived at 3561 W Cortland St for 8 years and feel the transformation of living by the 606. Neighbors and I are longing to have Kimball Park decontaminated so that we can begin the imagining of a park space by us, for kids, families and friends. There are park spaces ground-level connected to the 606, but we are left behind until steps are taken to make Kimball Park a reality.	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.
4	I live a couple of blocks from this area with my husband and three children. We bought our home here a couple of years ago and would love to have a safe park close to home near the 606. Please move forward to these plans to clean it up and turn it into a safe space for families.	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.
5	I support the remediation and redevelopment of the 1807-1815 Kimball Ave property. As a longtime resident of West Logan Square, I can assure you that Neighbors and I would love additional an additional park and much needed green space for kids, families and friends.	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.
6	I support the Brownfields Cleanup at 1807-1815 Kimball	Thank you for your

	Ave. I've lived at 1916 N. St Louis Ave for decades and feel the transformation of living by the 606. Neighbors and I are longing to have Kimball Park decontaminated so that we can begin the imagining of a park space by us, for kids, families and friends. There are park spaces ground-level connected to the 606, but we are left behind until steps are taken to make Kimball Park a reality. Please let me know how to help.	comment. We will continue to provide updates and will notify the public when we know if we are selected for the grant.
7	I have lived in Logan Square for 6 years. During the time I've lived here I have experienced the wonderful improvement of the area. I wanted to let you know that my neighbors and I would be very happy if Kimball Park was cleaned up so that we could enjoy it as a park space for local families and their children. I know that there are other ground-level parks connected to the 606, but none in my immediate area. Please let me know if I can help this initiative in any way.	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.
8	Comments: I support the Brownfields Cleanup at 1807-1815 Kimball Ave. I've lived at 1916 N. St Louis Ave for decades and feel the transformation of living by the 606. Neighbors and I are longing to have Kimball Park decontaminated so that we can begin the imagining of a park space by us, for kids, families and friends. There are park spaces ground-level connected to the 606, but we are left behind until steps are taken to make Kimball Park a reality. Please let me know how to help.	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.
9	I support the Brownfields Cleanup at 1807-1815 Kimball Ave. I live at 3741 W Wabansia and walk the Bloomingdale Trail (606) nearly every day. The site at Kimball has so much potential as a much needed park along the trail. It is very close to my house and I imagine organizing picnics with friends, relaxing with my family after a bike ride, or enjoying the stars on a summer night. The first step, of course, involves abating the dangerous chemicals to make future development safe. Please let me know what I can do to support this clean-up effort.	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.
10	I support the Brownfields Cleanup at 1807-1815 Kimball Ave. I live at 1715 N. Sawyer Avenue and walk the Bloomingdale Trail (606) nearly every day. The site at Kimball has so much potential as a much needed park along the trail. It is very close to my house and I imagine organizing picnics with friends, relaxing with my family after a bike ride, or enjoying the stars on a summer night. The first step, of course, involves abating the dangerous chemicals to make future development safe. Please let me know what I can do to support this clean-up effort.	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.

11	I support the Brownfields Cleanup at 1807-1815 Kimball Ave. I live at 2240 N Monticello and run or bike on the Bloomingdale Trail (606) by myself or with my kids nearly every day. The site at Kimball has so much potential as a much needed park along the trail. It is very close to my house and I imagine organizing picnics with friends, relaxing with my family after a bike ride, or enjoying the stars on a summer night. The first step, of course, involves abating the dangerous chemicals to make future development safe. Please let me know what I can do to support this clean-up effort.	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.
12	I support the Brownfields Cleanup at 1807-1815 Kimball Ave. I live at 3411 W Cortland Street and walk the Bloomingdale Trail (606) nearly every day. The site at Kimball has so much potential as a much needed park along the trail. It is very close to my house and I imagine organizing picnics with friends, relaxing with my family after a bike ride, or enjoying the stars on a summer night. The first step, of course, involves abating the dangerous chemicals to make future development safe. Please let me know what I can do to support this clean-up effort.	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.
13	Id like to provide my support for the US EPA brownfields cleanup grant application for 1807 -1815 Kimball.	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.
14	I support the Brownfields Cleanup at 1807-1815 Kimball Ave. I live at 2055 N. Spaulding Ave. and walk the Bloomingdale Trail (606) nearly every day. The site at Kimball has so much potential as a much needed park along the trail. It is very close to my house and I imagine organizing picnics with friends, relaxing with my ten-year-old after a bike ride, or enjoying the stars on a summer night. The first step, of course, involves abating the dangerous chemicals to make future development safe. Please let me, as a long-time Logan Square resident and activist, can do to support this clean-up effort.	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.

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

November 20, 2019
Simons Fieldhouse

FLEET & FACILITY MANAGEMENT

Agenda

- Introductions
- Site Background
- Environmental Site Assessment Results
- U.S. EPA Cleanup Grant Application
  - 2019 Application Feedback
  - 2020 Application Updates
- Next Steps

FLEET & FACILITY MANAGEMENT

Site Background

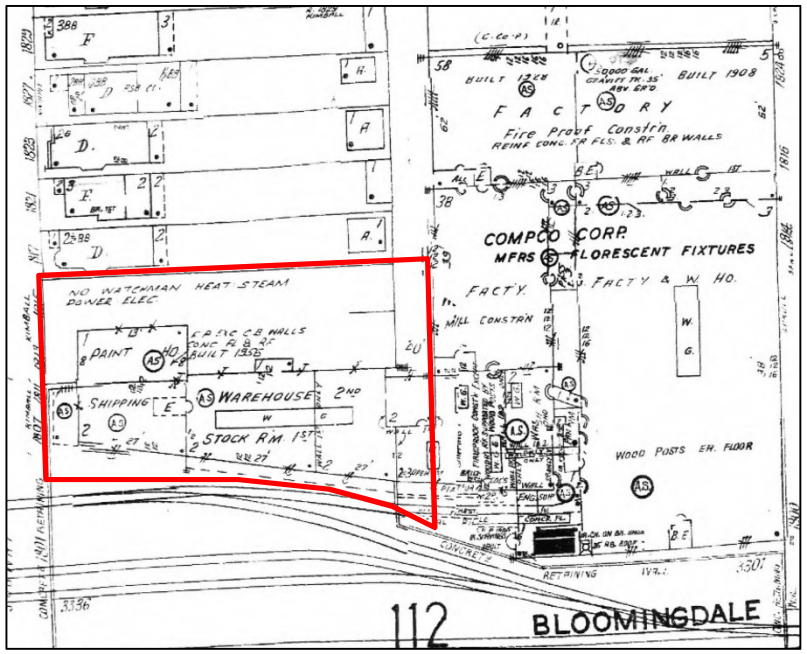
- The City of Chicago acquired the Site through foreclosure.
- The site was vacant at the time of acquisition.

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



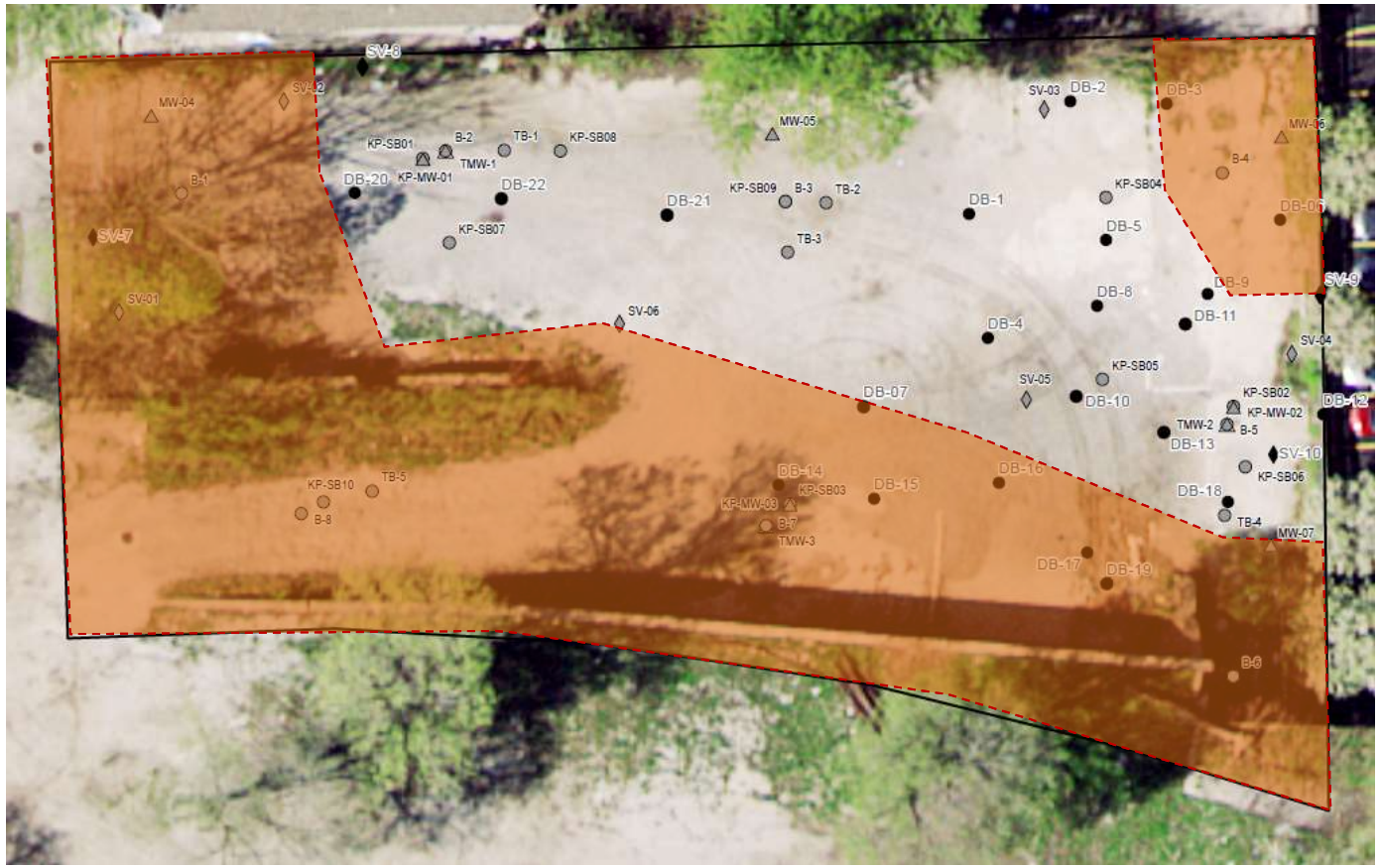
FLEET & FACILITY MANAGEMENT

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



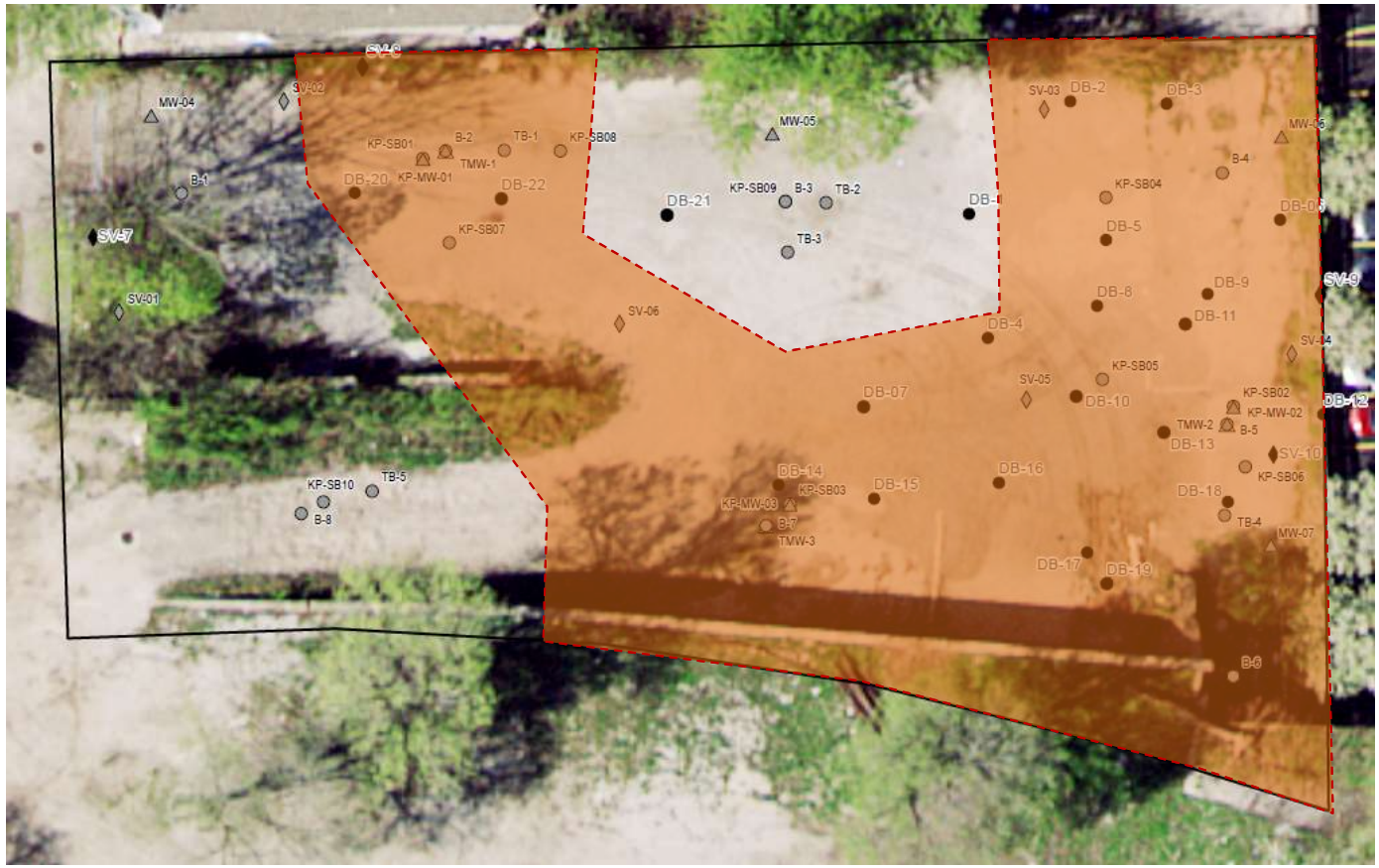
SVOCs exceeding Illinois Tier 1 site remediation objectives for soil ingestion and/or soil inhalation exposure pathways

- 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



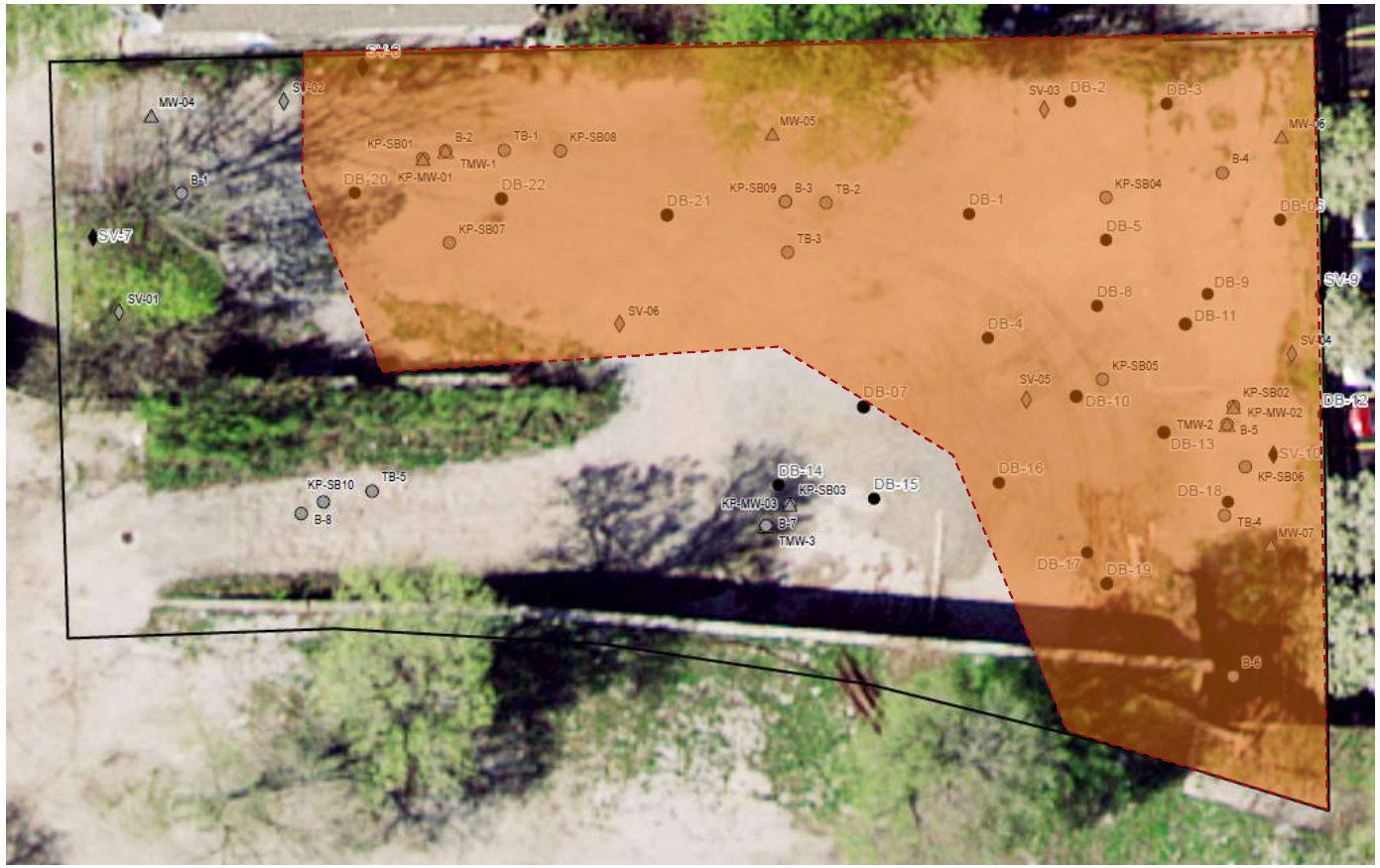
Inorganics exceeding Illinois Tier 1 site remediation objectives for soil ingestion and/or soil inhalation exposure pathways

- 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



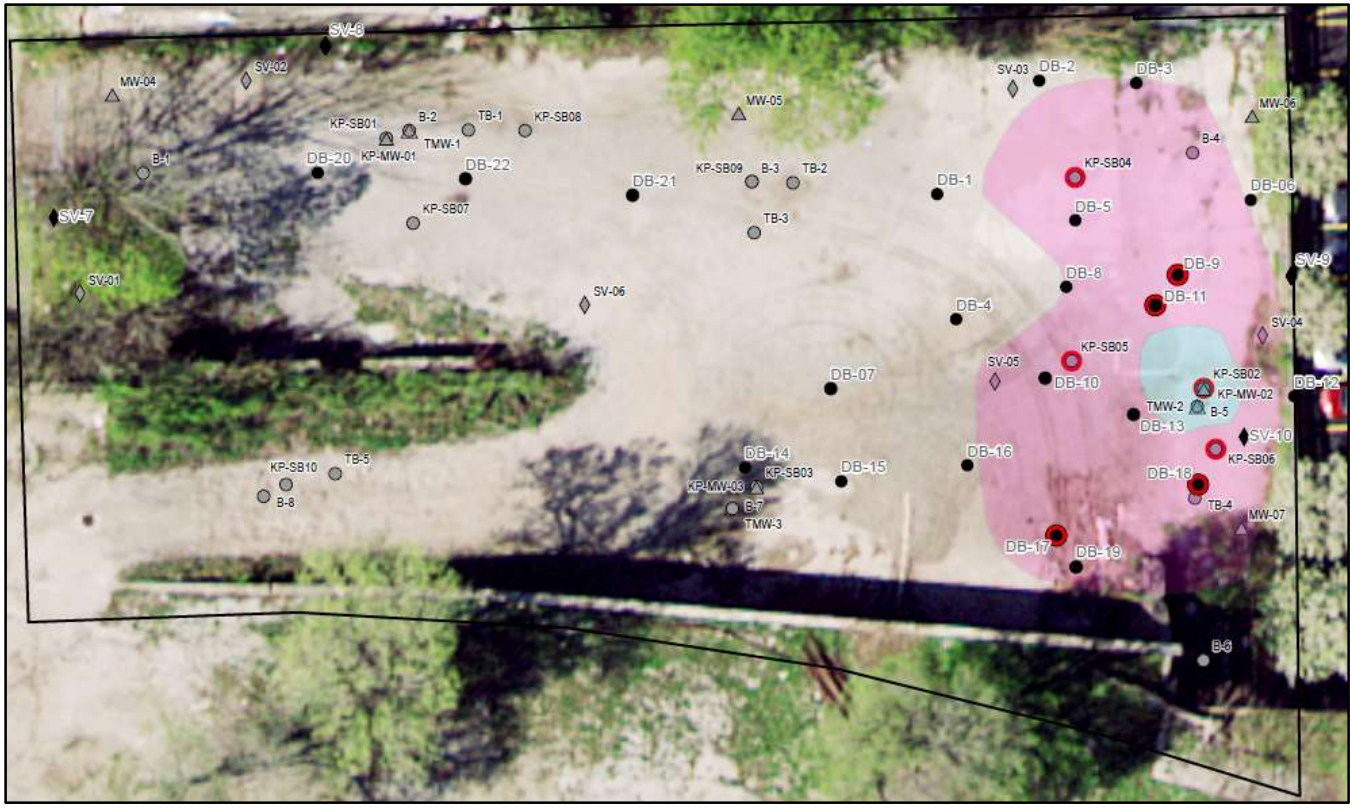
VOCs exceeding Illinois Tier 1 site remediation objectives for soil ingestion and/or soil inhalation exposure pathways

- 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)**

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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

CITY OF CHICAGO INCORPORATED 4th MARCH 1837

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U.S. EPA Cleanup Grant Application FY2020

- Grant Amount: $500,000
- City's Cost Share: $100,000
- City's Leveraged Funding: $120,000 (in-hand)
- Awards Announcement: Spring 2020
- Project Period: 3 Years
- Application Due: December 3, 2019

Last year, EPA received 89 cleanup grant applications and awarded grants to 33 communities (two from Illinois).

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U.S. EPA Cleanup Grant Application FY2019 Feedback

- Overall
  - Strong application, no major deficiencies
  - Confirmed site meets all threshold criteria for eligibility
- Project Description
  - Provide history of manufacturing in target area
- Leveraging Resources
  - Describe status of leveraged funds (i.e. in hand/proposed, eligible)

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U.S. EPA Cleanup Grant Application FY2019 Feedback

- Cost Estimate
  - Clarify grant vs leveraged fund scope
  - Provide greater breakdown of costs
- Community Need/Engagement
  - Add more statistics to support community's need for funding
  - Provide more details on public meeting frequency

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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 access park to the Bloomingdale Trail

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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	Task 2: TCE Cleanup (Prof Services)	Task 3: TCE Cleanup (Construction)	Task 4: Community Outreach (Prof Services)	Total
Direct Costs	Personnel	$ -	$ -	$ -	$ -	$ -
	Fringe Benefits	$ -	$ -	$ -	$ -	$ -
	Travel	$ -	$ -	$ -	$ -	$ -
	Equipment	$ -	$ -	$ -	$ -	$ -
	Supplies	$ -	$ -	$ -	$ -	$ -
	Contractual	$ -	$ 87,000	$ 508,000	$ 5,000	$ -
	Other (include sub)	$ -	$ -	$ -	$ -	$ -
Total Direct Costs*		$ -	$ 87,000	$ 508,000	$ 5,000	$ 600,000
Total Indirect Costs		$ -	$ -	$ -	$ -	$ -
Total Federal Funding		$ -	$ 87,000	$ 408,000	$ 5,000	$ 500,000
Cost share (20% of federal funds)		$ -	$ -	$ 100,000	$ -	$ 100,000
Total Budget (Total Direct + Indirect + Cost Share)		$ -	$ 87,000	$ 508,000	$ 5,000	$ 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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Total Project Budget Details

Task	Lead	Cost	Description
1. Grant management	2FM	$0	• 2FM in-house staff will manage grant
2. TCE Cleanup (Professional Services)	Consultant	$87,000	• $13,000 - IEPA report preparation • $44,000 - HASP, QAPP and design/specs • $30,000 - Field oversight and Air Monitoring
3. TCE Cleanup (Construction)	Contractor	$628,000	• $71,000 – Decon facility install/O&M • $557,000- In-Situ Chemical Mixing - Treatment Area Preparation - Excavation Support (Sheet Piling) - ISCO Treatment and Mixing
4. Community Engagement	2FM/ Consultant	$5,000	• $5,000 - 45 hours at average rate of $111/hr
	TOTAL COST	$720,000	

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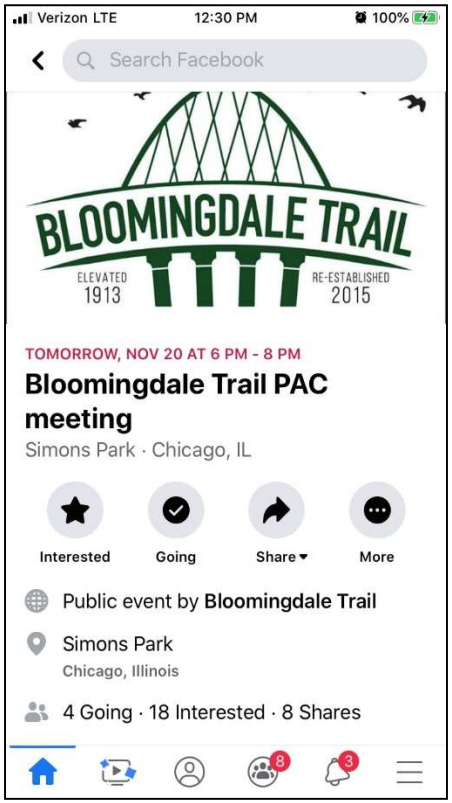
Community Engagement

- Frequency
  - At least quarterly; and,
  - Prior to finalizing remediation design plans
  - Before cleanup begins
  - After the cleanup has completed
- Methods
  - Community meetings
  - 2FM's and project partner's websites, e-mail and social media



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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 November 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 **November 25, 2019**

Submit Application to U.S. EPA

- Due to U.S. EPA by **December 3, 2019**

Wait for Notification of Awards

- The public will be notified if the City is awarded the grant
- If awarded, the work would likely start in 4Q2020

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Questions

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Orkeny Brewery + kitchen (Kimball Arts Center)

Dan Daly
F_B_T.