FIRST FIVE-YEAR REVIEW REPORT FOR U.S. SMELTER AND LEAD REFINERY, INC. SUPERFUND SITE LAKE COUNTY, INDIANA

Prepared by

U.S. Environmental Protection Agency
Region 5
Chicago, Illinois

8/24/2021

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LIST OF ABBREVIATIONS & ACRONYMS

ALM	Adult Lead Model
ARAR	Applicable or Relevant and Appropriate Requirement
ASAOC	Administrative Settlement Agreement and Order on Consent
bgs	Below Ground Surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
COC	Contaminant of Concern
ECHA	East Chicago Housing Authority
EPA	United States Environmental Protection Agency
ESD	Explanation of Significant Differences
FYR	Five-Year Review
HHRA	Human Health Risk Assessment
HUD	United States Department of Housing and Urban Development
ICs	Institutional Controls
ICIAP	Institutional Control Implementation and Assurance Plan
IDEM	Indiana Department of Environmental Management
IEUBK	Integrated Exposure Uptake Biokinetic
mg/kg	milligrams per kilogram
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NPL	National Priorities List
O&M	Operation and Maintenance
OU	Operable Unit
PRP	Potentially Responsible Party
RAOs	Remedial Action Objectives
ROD	Record of Decision
Site	U.S. Smelter and Lead Refinery, Inc. Superfund Site
TBCs	To be considereds
TC	Toxicity Characteristic
TCRA	Time-Critical Removal Action
UAO	Unilateral Administrative Order
USS Lead	U.S. Smelter and Lead Refinery, Inc.
UU/UE	Unlimited Use and Unrestricted Exposure
WCHC	West Calumet Housing Complex

I. INTRODUCTION

The purpose of a Five-Year Review (FYR) is to evaluate the implementation and performance of a remedy in order to determine if the remedy is and will continue to be protective of human health and the environment. The methods, findings, and conclusions of reviews are documented in FYR reports such as this one. In addition, FYR reports identify issues found during the review, if any, and document recommendations to address them.

The United States Environmental Protection Agency (EPA) prepared this FYR report pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 121, consistent with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) (40 CFR Section 300.430(f)(4)(ii)), and considering EPA policy.

This is the first FYR for the U.S. Smelter and Lead Refinery, Inc. (USS Lead) Superfund Site (Site). The triggering action for this **statutory** review is the on-site construction start date of the Operable Unit 1 (OU1) remedial action. EPA has prepared this FYR report because hazardous substances, pollutants, or contaminants remain at the Site above levels that allow for unlimited use and unrestricted exposure (UU/UE).

The Site consists of two OUs, and one OU will be addressed in this FYR report. OU1 addresses the soil remedy for the area defined as OU1, consisting of Zones 1, 2, and 3. OU2 consists of the surface and subsurface of the 79-acre former USS Lead Facility and groundwater beneath the entire site. The one OU that is not addressed in this FYR report is OU2, because the remedial investigation for this part of the Site is currently in progress and no Record of Decision (ROD) has been signed yet for OU2.

The USS Lead Superfund Site FYR was led by Sarah Rolfes, EPA Remedial Project Manager. Participants included Tom Alcamo, EPA Remedial Project Manager, Janet Pope, EPA Community Involvement Coordinator, Charles Rodriguez, EPA Community Involvement Coordinator, and Doug Petroff, Indiana Department of Environmental Management (IDEM). The FYR began on 11/9/2020 when EPA notified IDEM and the potentially responsible parties (PRPs) that it was beginning the review.

Site Background

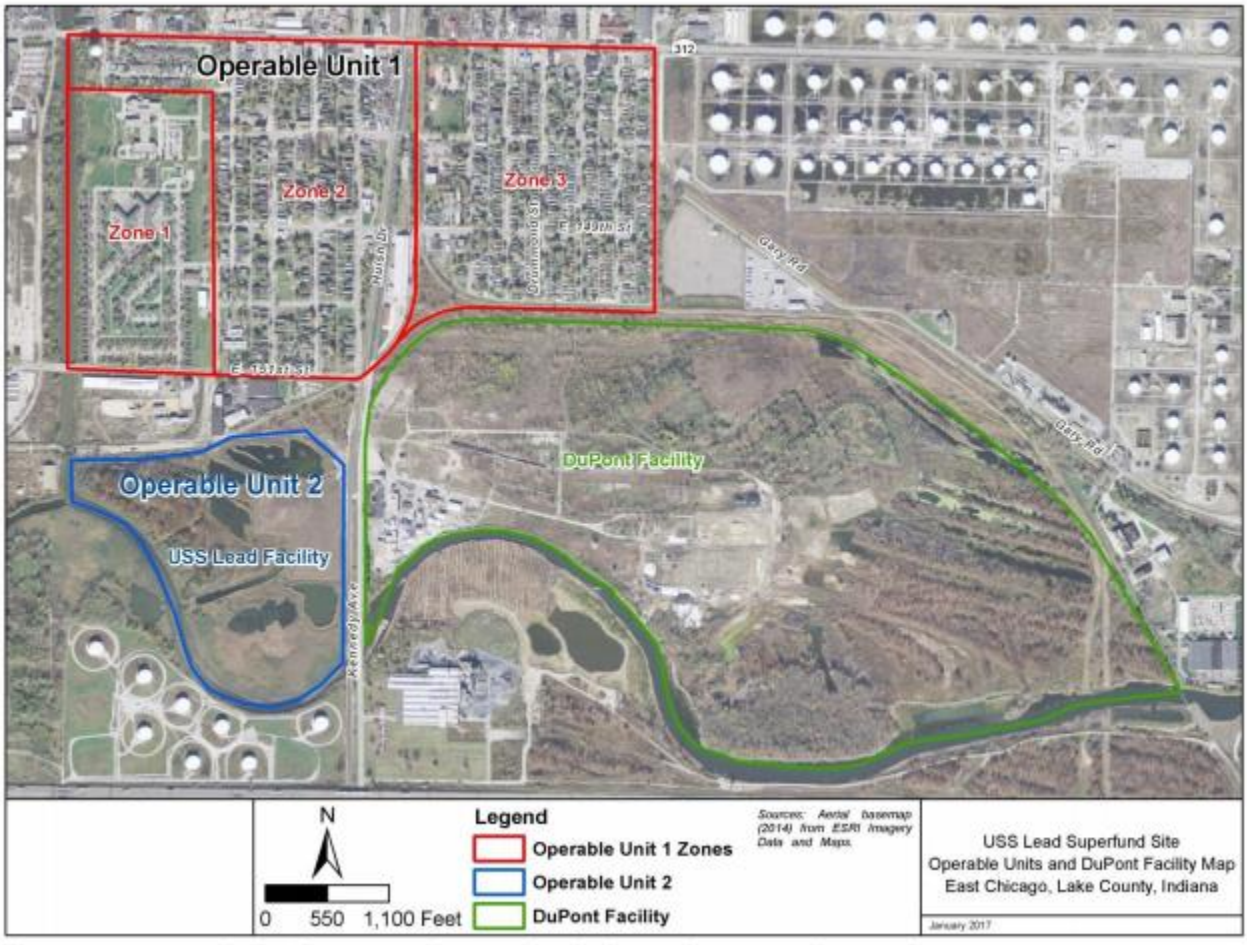
The USS Lead Site is located in East Chicago, Indiana, about 18 miles southeast of Chicago, Illinois. The 322-acre site is bounded by East Chicago Avenue on the north, East 151st Street on the south, the Indiana Harbor Canal on the west and Parrish Avenue on the east. The Site is located in the southern portion of East Chicago and consists of two OUs (see Figure 1 below). OU1, which is addressed in this FYR, is a predominantly residential neighborhood and has been further subdivided into Zones 1, 2, and 3. Some industrial and/or commercial properties are also present in Zones 1, 2, and 3. Zone 1 includes the former Carrie Gosch Elementary School and the site of the now demolished West Calumet Housing Complex (WCHC). Zones 2 and 3 include 1,078 properties which are predominantly residential, but include some parks, churches, and industrial/commercial properties. The Site was placed on the National Priorities List in April 2009.

Contamination in OU1 is largely derived from historic operations at three nearby facilities: (1) a facility formerly located at 5300 Kennedy Ave., that was owned and operated by the former USS Lead Facility for most of its operations; (2) a facility formerly located in Zone 1 that was owned and operated by

subsidiaries of the Anaconda Copper Mining Company (former Anaconda Facility) for most of its operations; and (3) a facility located just southeast of OU1 that was owned and operated by E.I. Du Pont de Nemours for most of its operations (former DuPont Facility). See Figure 1 below. Additional Site background information can be found in Appendix B.

The current and reasonably anticipated future land uses for OU1 Zones 2 and 3 are predominantly residential and some recreational and industrial/commercial uses. Based on letters sent to EPA in 2019 (City of East Chicago, 2019 and Industrial Development Advantage, LLC. 2019) and a recent zoning change by the City of East Chicago, the likely future land usage for much of OU1 Zone 1 will be commercial/industrial.

Figure 1 – Site Map



FIVE-YEAR REVIEW SUMMARY FORM

SITE IDENTIFICATION	
Site Name:	U.S. Smelter and Lead Refinery, Inc.
EPA ID:	IND047030226

Region: 5	**State:** IN	**City/County:** East Chicago/Lake
SITE STATUS		
NPL Status: Final		
Multiple OUs? Yes	**Has the site achieved construction completion?** No	
REVIEW STATUS		
Lead agency: EPA ***[If "Other Federal Agency", enter Agency name]*:**		
Author name (Federal or State Project Manager): Sarah Rolfes		
Author affiliation: EPA		
Review period: 11/9/2020 – 4/16/2021		
Date of site inspection: FYR Site inspection not conducted due to COVID-19 work travel restrictions; last Site visit by EPA done on 12/2/2020		
Type of review: Statutory		
Review number: 1		
Triggering action date: 10/1/2016		
Due date *(five years after triggering action date)*: 10/1/2021		

II. RESPONSE ACTION SUMMARY

Basis for Taking Action

EPA conducted a Remedial Investigation to determine the nature and extent of contamination for OU1 and completed the Remedial Investigation report in June 2012 (EPA, 2012a). The contaminants of concern (COCs) at OU1 were determined to be lead and arsenic in soil. The Remedial Investigation report also included a human health risk assessment (HHRA). The OU1 HHRA (EPA, 2012a) evaluated potential health risks to current and future residents (adult and child), recreationalists (adult and child), and students and school staff assumed to be exposed to arsenic and lead in surface soils at residential properties, schools, and recreational properties throughout OU1 by the following potential exposure pathways:

- Surface Soil – Ingestion and dermal contact exposures to surface soil (0 to 2 feet) were quantified for users.
- Subsurface soil – Ingestion and dermal contact exposures to subsurface soil (greater than 2 feet below ground surface (bgs)) were quantified for users under future land use conditions.
- Ambient Air – Inhalation exposures to dust emitted from surface soil (0 to 2 feet) were quantified for users.

The OU1 HHRA found that lead and arsenic in soils at properties throughout OU1 that were not addressed by the 2008 and 2011 EPA time-critical removal actions (TCRAs) posed an unacceptable risk through the above-listed exposure pathways and that risks posed by OU1 warranted a remedial action.

Response Actions

During an initial investigation prior to the Site being listed on the NPL, EPA identified 15 residential properties with lead concentrations in surface soils greater than 1,200 milligrams per kilogram (mg/kg)(EPA's removal action management level). In 2008, EPA's emergency response program addressed 13 of the properties (defined as priority properties) in a TCRA. Response activities included utility locates, clearing and grubbing, excavation of contaminated soils, disposal of the excavated soils, backfill and landscaping/restoration of the affected properties. The remaining two properties did not grant access for remediation at that time. During the Remedial Investigation, an additional 14 residential properties with lead concentrations above 1,200 mg/kg were identified in OU1. EPA's emergency response program addressed the 16 priority properties (two of which were identified during the 2008 action and not remediated due to access issues) in a 2011 TCRA.

On November 30, 2012, EPA issued the ROD for OU1 (EPA, 2012b). The following remedial action objective (RAO) was developed to address unacceptable risks to residents, recreationalists, and workers, based on exposure to contaminated soil within OU1:

- Reduce to acceptable levels human health risk from exposure to COCs (lead and arsenic) in impacted surface and subsurface soils, through ingestion, direct contact, or inhalation exposure pathways, assuming reasonably anticipated future land-use scenarios.

The following cleanup levels, were established for OU1 soils in the 2012 ROD:

- Arsenic: EPA selected a cleanup level of 26 mg/kg for arsenic based on the upper tolerance limit of naturally occurring concentrations of arsenic at OU1. The 26 mg/kg cleanup level for arsenic is applicable to residential, recreational, and industrial/commercial properties.
- Lead: EPA selected a cleanup level of 400 mg/kg for lead in residential yards, schools and parks based on the results of the Integrated Exposure Uptake Biokinetic (IEUBK) Model for Lead in Children and the Adult Lead Model (ALM), using then-current default input parameters for both models, EPA Regional Screening Levels, and EPA guidance documents regarding cleanup of lead-contaminated residential sites. At industrial/commercial properties, EPA used the ALM to identify a cleanup level of 800 mg/kg for lead in soil.

The major components of the OU1 Selected Remedy in the 2012 ROD included the following:

- Excavation of soil that contains lead or arsenic in concentrations that exceed the cleanup levels to a maximum excavation depth of 24 inches;
- Disposal of excavated soil at an off-site Subtitle D landfill; some excavated soils may require chemical stabilization prior to off-site disposal to address exceedances of the toxicity characteristic (TC) regulatory threshold. Contaminated soil that exceeds the TC threshold is considered principal threat waste;
- If contaminated soil is identified at a depth greater than 24 inches bgs, a visual barrier, such as orange construction fencing or landscape fabric, will be placed above the contaminated soil before the property is backfilled with clean soil. Institutional controls (ICs) will be implemented

to protect the visual barrier that separates clean backfill from impacted soils and to ensure that users of the property are not exposed to contaminated soil that remains at depth;
- Excavated soil will be replaced with clean soil to maintain the original grade. The top 6 inches of fill will consist of topsoil. Each property will be restored as close to practicable to its pre-remedial condition.

In April 2018, EPA issued an Explanation of Significant Differences (ESD) (EPA, 2018c) to document the significant increase in cost between the estimated cost of the remedy selected in the 2012 ROD for Zones 2 and 3 of OU1 and the revised estimated cost of the remedy for those two Zones based on updated pricing and more extensive sampling during remedial design. Based on remedial design soil sampling performed at Zones 2 and 3, EPA determined the actual volume of contaminated soil that needed to be excavated was greater than what EPA originally estimated. Also, based largely on more up-to-date engineering estimates, EPA determined that the "per unit" cost of various tasks required by remediation work was greater than what EPA originally estimated. As a result of the increased volume of contaminated soil and the increased per unit costs of remediating that soil, the estimated cost of remediating Zones 2 and 3 increased to $84.9 million from the original estimate in the 2012 ROD of $22.8 million. The ESD did not include any changes to the remedy selected for Zones 2 and 3 of OU1. It merely explained the differences in the estimated cost.

In March 2020, EPA issued a ROD Amendment (EPA, 2020a) to address an anticipated change in land use for the majority of OU1 Zone 1. In July 2016, the East Chicago Housing Authority (ECHA) applied to the United States Department of Housing and Urban Development (HUD) for approval to demolish the WCHC. In September 2017, HUD approved ECHA's request and the demolition of WCHC was conducted in 2018. The 2012 ROD had anticipated that the houses and apartment buildings, along with the sidewalks and parking lots of the WCHC, would act as barriers to exposure to the lead and arsenic soil contamination. During the demolition, ECHA removed all hardscapes that previously acted as impermeable barriers to exposure to contaminated soils.

As a portion of Zone 1, including the former Carrie Gosch Elementary School and an adjacent utility corridor, had already been remediated according to the 2012 ROD, the 2020 ROD Amendment set forth a modified remedy for the remainder of Zone 1, which is now referred to as "modified Zone 1." Modified Zone 1 includes the area encompassed by the former WCHC, Goodman Park, and a utility corridor located in the western portion of OU1.

The 2020 ROD Amendment adopted the same RAO and the same cleanup levels for arsenic and lead (residential and industrial/commercial) as the 2012 ROD. The major components of the OU1 Selected Remedy in the 2020 ROD Amendment for the modified Zone 1 area included the following:

- Excavation of soil that contains lead or arsenic in concentrations that exceed the cleanup levels to a maximum excavation depth of 24 inches bgs;
- Excavated soil will be replaced with clean soil to maintain the original grade. The top 6 inches of fill will consist of topsoil and restoration of disturbed areas with sod or seed;
- Disposal of excavated soil at an off-site Subtitle D or Subtitle C landfill, as appropriate. If necessary, to meet off-site disposal requirements, ex-situ treatment may be used to chemically stabilize contaminated soils that exceed the TC regulatory threshold (5 milligrams per liter) after toxicity characteristic leaching procedure testing;

- If contaminated soil is identified at a depth greater than 24 inches below ground surface (bgs), a visual barrier, such as orange construction fencing or landscape fabric, will be placed above the contaminated soil before the area is backfilled with clean soil;
- ICs will be required in the form of soil management measures to prevent recontamination of clean soil during future development and protect future residents, and utility and construction workers, from unacceptable risks related to exposure to contaminated soil at depths below 24 inches bgs.

The 2020 ROD Amendment took into consideration a Letter of Intent (IDA, 2019) executed on November 15, 2019, by the City of East Chicago, Indiana, and Industrial Development Advantage, LLC, and a letter from the City of East Chicago (City of East Chicago, 2019) to EPA dated December 16, 2019. These two documents when read together, make it likely that the future land usage for much of Zone 1 will be commercial/industrial and not residential. Therefore, the 2020 ROD Amendment also set forth a contingent remedy in the event the future land use changes to industrial/commercial. The contingent remedy requires cleanup to commercial/industrial standards to a maximum depth of 12 feet bgs plus implementation of ICs. EPA set forth requirements to be met in order to change the selected remedy to the contingent remedy, which includes: 1) the City of East Chicago, Indiana changing the zoning designation for modified Zone 1 from residential to commercial/industrial; and 2) the City and ECHA transferring titles to parcels that comprise modified Zone 1 to an entity intending to develop modified Zone 1 for commercial/industrial use. If these two conditions are met, EPA will issue an Explanation of Significant Difference to confirm that these two conditions have been met and will change the selected remedy to the contingent remedy.

Status of Implementation

Enforcement Documents:
On October 28, 2014, EPA entered into a Consent Decree (EPA, 2014) with certain PRPs for performance of the remedial design and remedial action in Zones 1 and 3 of OU1 of the Site. Under the Consent Decree, EPA would conduct the remedial design and remedial action in Zones 1 and 3, in accordance with the 2012 ROD, and the PRPs would fund the actions. The terms of the Consent Decree also delegated the responsibility of transportation and disposal of all contaminated excavated material to the PRPs.

On March 16, 2017, EPA and several PRPs entered into an Administrative Settlement Agreement and Order on Consent (ASAOC) (EPA, 2017a) regarding removal action work in Zone 2 of OU1 of the Site. Under the ASAOC, EPA would conduct TCRA work at priority properties in Zone 2, in accordance with the 2012 ROD and associated Action Memo (EPA, 2017b), and the PRPs would fund the actions.

In January 2018, EPA issued two unilateral administrative orders (UAOs) to six PRPs. The 2018 UAOs (EPA, 2018a and EPA, 2018b) required these PRPs to complete the soil remediation work at properties within Zone 2 and continue to conduct indoor sampling and cleaning, as necessary, within Zones 2 and 3 with oversight by EPA. All six PRPs provided notice of their intent to comply with the 2018 UAOs.

In March 2019, EPA issued a UAO to three PRPs. The 2019 UAO (EPA, 2019) required the PRPs to complete the soil remediation work at the remaining residential properties within Zone 3 and two properties within Zone 1 (the former Carrie Gosch Elementary School and an adjacent utility corridor) with oversight by EPA. All three PRPs provided notice of their intent to comply with the UAO.

In June 2020, EPA issued two UAOs to PRPs. One UAO (EPA, 2020b) was issued to three PRPs and the other (EPA, 2020c) was issued to four PRPs. The UAOs required the PRPs to complete the soil remediation work at the remaining non-residential properties within Zone 3 with oversight by EPA. All of the PRPs provided notice of their intent to comply with the 2020 UAOs.

Zone 1:
From November 2014 to April 2016, EPA performed remedial design work in Zone 1 in accordance with the 2012 ROD. Upon review of the validated data, EPA determined that practically all WCHC yards required remediation. As noted above, ECHA applied to HUD for approval and funding to demolish the WCHC in July 2016. EPA therefore determined that it would be impractical to remediate the WCHC during the summer of 2016 due to the potential for the remediation work to interfere with the relocation of residents and the subsequent demolition of the WCHC. Instead of cleaning up the WCHC soils in 2016, EPA implemented interim risk reduction measures to reduce immediate exposure to contaminated soils by residents of the WCHC. EPA conducted two Removal Actions (EPA, 2016a) in the summer of 2016 with the following measures: 1) placement of mulch over exposed soils to serve as a barrier to direct contact and reduce dust migration, and 2) implementation of an interior dust sampling and cleaning program to address elevated levels of interior lead dust due to lead-contaminated soils that had been tracked into apartments of WCHC residents. Between August 12, 2016 and November 5, 2016, EPA cleaned the interiors of 270 WCHC units and temporarily relocated hundreds of residents while their homes were being cleaned.

During the 2019 construction season, the former Carrie Gosch Elementary School and an adjacent utility corridor were remediated in accordance with the 2012 ROD. Cleanup activities included preconstruction property owner meetings, utility locates, clearing and grubbing, excavation of contaminated soils, transporting and stockpiling the excavated soils prior to disposal, backfill and topsoil placement, landscaping/restoration of the affected properties, and post-construction property owner meetings. Generally, soil was excavated to a maximum depth of 2 feet bgs to remove contamination. However, during remediation EPA conducted additional sampling at the base of excavation (generally 2 feet bgs and greater), where practical, and removed the additional contamination. All properties with contamination remaining at depth or significant areas of concrete that prevented the collection of soil samples will be reviewed to determine if any ICs are needed and the type of ICs that are needed.

The remedy for modified Zone 1 as set forth in the 2020 ROD Amendment remains to be implemented.

Zone 2:
Beginning in 2016, EPA conducted remedial design soil sampling in Zone 2. EPA continued to conduct remedial design sampling in Zone 2 as access to properties was granted and all 597 properties were sampled by September 2020. In October 2016, EPA began a TCRA in Zone 2 to clean up priority properties (EPA, 2016b). EPA continued the TCRA throughout the 2017 construction season and began a remedial action during the 2018 construction season. Remediation has continued throughout the 2019, 2020 and 2021 construction seasons. In 2021, EPA completed remediation at the last of the 510 properties in Zone 2 requiring remediation. A summary of the status of the Zone 2 properties is provided in Table 1 (below).

Typical cleanup activities for Zone 2 included preconstruction property owner meetings, utility locates, clearing and grubbing, excavation of contaminated soils, transporting and stockpiling the excavated soils prior to disposal, backfill and topsoil placement, landscaping/restoration of the affected properties, and post-construction property owner meetings. Generally, soil was excavated to a maximum depth of 2 feet

bgs to remove contamination. However, during remediation EPA conducted additional sampling at the base of excavation (generally 2 feet bgs and greater), where practical, and removed the additional contamination. A limited number of properties have a visual barrier that was placed at the base of excavation where necessary. All properties with contamination remaining at depth or significant areas of concrete that prevented the collection of soil samples will be reviewed to determine if any ICs are needed and the type of ICs that are needed.

In 2016, EPA also implemented a TCRA to conduct an interior dust sampling and cleaning program in Zone 2 to address elevated levels of interior lead and arsenic dust due to contaminated soils that had been tracked into the residences that required remediation. Interior dust sampling and cleaning, as required, continued throughout the remaining construction seasons.

In September 2020, EPA completed partial deletions of 222 properties in Zone 2 from the NPL. All removal and remedial action objectives and associated cleanup goals for the soil at these properties were met. The deleted properties either tested clean and no cleanup was needed, or these properties were remediated and have no contamination remaining at depth. Only properties that had an approved sampling report or remedial action completion report were deleted in 2020.

Table 1: Zone 2 Property Status

Overall Summary	
Total Number of Properties	587
Properties Sampled	587
Properties Requiring Remediation	510
Properties Remediated	510
Partial Deletions from the NPL	
Properties Deleted in 2020	222

Zone 3:
Beginning in November 2014, EPA conducted remedial design soil sampling in Zone 3. EPA continued to conduct remedial design sampling in Zone 3 as access was granted and all 481 properties were sampled by March 2019. In October 2016, EPA started remediation work in Zone 3. Remediation continued throughout 2017, 2018, 2019, and 2020. 295 residential properties requiring remediation in Zone 3 were remediated by the end of the 2019 construction season. The remaining two non-residential properties in Zone 3 that require remediation are anticipated to be addressed during the 2021 construction season. A summary of the status of the Zone 3 properties is provided in Table 2 (below).

Typical remediation activities for Zone 3 included preconstruction property owner meetings, utility locates, clearing and grubbing, excavation of contaminated soils, transporting and stockpiling the excavated soils prior to disposal, backfill and topsoil placement, landscaping/restoration of the affected properties, and post-construction property owner meetings. Generally, soil was excavated to a maximum depth of 2 feet bgs to remove contamination. However, during remediation EPA conducted additional sampling at depth, where practical, and removed the additional contamination. A limited number of properties have a visual barrier that was placed at the base of excavation where necessary. All properties with contamination remaining at depth or significant areas of concrete that prevented the collection of soil samples will be reviewed to determine if any ICs are needed and the type of ICs that are needed.

In 2016, EPA also implemented a TCRA to conduct an interior dust sampling and cleaning program in Zone 3 to address elevated levels of interior lead and arsenic dust due to contaminated soils that had

been tracked into the residences that required remediation. Interior dust sampling and cleaning, as required, continued throughout the remaining construction seasons.

In September 2020, EPA completed partial deletions of 449 properties in Zone 3 from the NPL. All removal and remedial action objectives and associated cleanup goals for the soil at these properties were met. The deleted properties either tested clean and no cleanup was needed, or these properties were remediated and have no contamination remaining at depth. Only properties that had an approved sampling report or remedial action completion report were deleted in 2020.

Table 2: Zone 3 Property Status

Overall Summary	
Total Number of Properties	481
Properties Sampled	481
Properties Requiring Remediation	297
Properties Remediated	295
Partial Deletions from the NPL	
Properties Deleted in 2020	449

Institutional Controls

ICs are required by the Site's decision documents to restrict property use, maintain the integrity of the remedy, and assure the long-term protectiveness for areas which do not allow for UU/UE. A summary of the implemented and planned ICs for the Site is listed in Table 3 and are further discussed below.

Table 3: Summary of Planned and/or Implemented ICs

Media, engineered controls, and areas that do not support UU/UE based on current conditions	ICs Needed	ICs Called for in the Decision Documents	Impacted Parcel(s)	IC Objective	Title of IC Instrument Implemented and Date (or planned)
Soil	Yes	Yes	To Be Determined	1) Require all subsurface work (utility maintenance, foundation work, etc.) be done in accordance with the remedial design to protect workers and residents; and 2) requiring that sufficient coverage of impacted soils be maintained	To Be Determined/ Planned

Status of Access Restrictions and ICs:
EPA has not implemented any ICs at this time. The 2012 ROD and 2020 ROD Amendment included ICs as a remedy component for properties with contamination at depth. The RODs called for ICs to ensure that users of the properties in OU1 are not exposed to COCs in soil above unacceptable levels.

EPA is currently evaluating Zone 2 and 3 properties that were remediated to determine if any ICs are needed and the type of ICs that are needed. The review includes looking at properties with contamination remaining at depth or significant areas of concrete that prevented the collection of soil samples. Once this evaluation is complete, EPA will issue a decision document to clarify and provide additional details regarding the ICs required, if needed.

Current Compliance:
Compliance with IC objectives to be achieved will be determined as ICs are implemented and as part of the future IC evaluation.

IC Follow up Actions Needed and Long-Term Stewardship:

An Institutional Control Implementation and Assurance Plan (ICIAP) will be developed. The ICIAP will be developed in accordance with the appropriate enforcement document either by EPA or by the PRPs with EPA oversight. Only properties with contamination at depth that require ICs will be addressed in the ICIAP. The purpose of the ICIAP is to:

- document IC evaluation activities taking place to determine the ICs needed for each of the OUs;
- ensure that ICs once implemented are effective;
- evaluate the specific additional ICs that are needed; and
- ensure that long-term stewardship procedures are put in place so that all ICs, once implemented, are properly maintained, monitored, and enforced.

IC evaluation activities will include, as needed, developing updated maps depicting current conditions in Site areas that do not allow for UU/UE, reviewing current zoning and city ordinances, and reviewing recording and title work for properties impacted by the Site.

ICs in modified Zone 1 will be implemented in accordance with the 2020 ROD Amendment and any applicable ESD after remediation is performed in accordance with the 2020 ROD Amendment.

Systems Operations/Operation & Maintenance
Operation and maintenance (O&M) activities may be required at properties with contamination at depth or properties cleaned up to commercial/industrial use. Requirements for O&M will be included in O&M and ICIAP plans to be developed. O&M responsibilities will be in accordance with the enforcement documents.

III. PROGRESS SINCE THE LAST REVIEW

There are no issues and recommendations from the last FYR because this is the first FYR for the Site. Progress on recommendations from this FYR will be reviewed in the next (second) FYR.

IV. FIVE-YEAR REVIEW PROCESS

Community Notification, Involvement & Site Interviews
A public notice was made available by newspaper posting in the *Northwest Indiana Times*, on 2/5/2021, stating that there was a FYR and inviting the public to submit any comments to EPA. EPA did not receive any public comments in response to the public notice. The results of the review and the report

will be made available at the Site information repository located at the East Chicago Public Library, Robert A. Pastrick Branch, 1008 W. Chicago Ave., and at www.epa.gov/uss-lead-superfund-site.

During the FYR process, EPA conducted public interviews on June 22 and 23, 2021 to document any perceived problems or successes with the remedy that has been implemented to date. EPA advertised the opportunity for the public to sign-up for interviews in a newsletter mailed to all residents in the Superfund site, on the USS Lead Site website, and a newspaper posting in the *Northwest Indiana Times,* on 6/14/2021. EPA also created a video explaining the FYR process and how the community could participate. The video was posted on the USS Lead Site website. Seven residents signed up to be interviewed. Six interviews were conducted and the seventh resident emailed comments regarding the FYR. The interviews were attended by Sarah Rolfes, EPA Remedial Project Manager, Tom Alcamo, EPA Remedial Project Manager and Janet Pope, EPA Community Involvement Coordinator. EPA also had a contractor present to record notes of the interviews. The interviews were an opportunity for the resident to communicate any concerns or questions they may have about the site cleanup to us. In general, EPA asked the following three general questions during each discussion

1. What is your overall impression of the project? (General sentiment)
2. Do you feel well informed about the site's activities and progress?
3. Do you have any comments, suggestions, or recommendations regarding the site's management or operation?

A summary of the items raised by the public pertaining to the FYR and site protectiveness are provided below.

- Partial deletions – There were concerns related to the partial deletions of 671 properties that occurred in 2020 and EPA's ability to conduct future response actions at those properties, specifically related to groundwater. EPA did partially delete 671 properties from the NPL in 2020, however the partial deletion only applied to the soil (OU1) and does not apply to the groundwater (OU2) at the Site. Further, partial deletion does not preclude eligibility for future response actions, should future conditions warrant such actions. Deleted portions of the site remain eligible for further Fund-financed cleanup actions should future conditions warrant such actions.

- Groundwater – Several issues related to site groundwater were raised during the interviews, including seepage in basements, location of groundwater wells, and groundwater sample results. The groundwater remedial investigation is currently in progress and no Record of Decision has been signed yet for this portion of the site (OU2), so it is not included in this FYR report. The concerns related to the ongoing groundwater investigation were relayed to the EPA project manager in charge of the OU2 investigation.

- Lead-Based Paint – There were concerns related to lead testing results in basements and on walls as part of non-EPA lead-based paint testing and abatement activities. As noted in the previous bullet, all basement seepage concerns are being investigated as part of the ongoing groundwater (OU2) remedial investigation. All concerns related to lead-based paint (walls, windows, doors, etc.) are directed to the State of Indiana's Lead Protection Program for assistance and information regarding testing and abatement.

The remainder of the items raised by the public did not pertain to the FYR, or any problems or successes with the remedy implemented to date in OU1. EPA did respond during the interview or by email to all issues and comments regardless of whether they were relevant to the FYR. For items, not EPA-related, EPA directed the resident to raise the issue with the appropriate State or local entity.

In addition to these activities for the FYR, EPA has hosted public outreach events throughout the duration of the remedial action in OU1 (see Appendix D for a timeline of community involvement activities). EPA also interviewed 24 members of the public in 2018 as part of updating the community involvement plan. In addition, members of the public regularly reach out to EPA concerning site management, protection, and public perception.

Data Review

In Zones 1, 2, and 3 (OU1), significant amounts of soil data were collected during the remedial design and remedial action activities. Remedial design sampling data has been collected from across Zone 1 and all of the 1,078 properties within Zones 2 and 3. The sampling data has identified all of the properties within Zones 1, 2 and 3 that have concentrations of lead and arsenic above the OU1 cleanup levels which were set in the 2012 ROD and 2020 ROD Amendment.

Backfill sampling at properties was also conducted during the remedial activities. All backfill sampling results were below cleanup levels and below site specific standards for backfill.

Site Inspection

Properties were inspected by EPA during each construction season for completeness and to identify issues for resolution. No formal FYR site inspection was done due to EPA's COVID-19 pandemic-related travel restrictions. The most recent site visits which included inspections were on November 3, 2020 and December 2, 2020. During these site visits, EPA did not observe any activities that would affect remedy protectiveness. EPA believes conditions at the site have not significantly changed since prior inspections, given the short period of time since the last inspection. A FYR site inspection will be conducted when feasible and has been included as an issue and recommendation of this FYR report.

V. TECHNICAL ASSESSMENT

QUESTION A: Is the remedy functioning as intended by the decision documents?

Yes. The OU1 remedy is functioning as intended by the 2012 ROD in Zones 2 and 3. EPA has sampled all 1,078 properties in Zones 2 and 3. The selected soil cleanup levels for lead and arsenic have been achieved at 805 properties in Zones 2 and 3 that were remediated. Two remaining properties in Zone 3 require remediation and will be remediated during the 2021 construction season. The remaining 271 properties in Zones 2 and 3 did not require remediation according to the parameters set forth in the 2012 ROD.

EPA is in the process of determining the ICs for properties with contamination at depth and the best mechanism to implement those controls. All of the 1,078 properties in Zones 2 and 3 were sampled to a depth of 30 inches bgs (regardless of whether contamination was present in the top 24 inches) to determine the need for ICs. Of the 271 properties that did not require remediation in accordance with the

2012 ROD, there are several properties that have contamination (lead or arsenic above the cleanup numbers) at depth (24 to 30 inches bgs). During remediation of the 805 properties, EPA conducted additional sampling during cleanup work to remove the contamination at depth, where possible, however there are several that have contamination (lead or arsenic above the cleanup numbers) remaining at depth (24 to 30 inches bgs). EPA is in the process of evaluating contaminant levels at depth at these properties and potential human exposure routes. If ICs are required for protectiveness, EPA will document it in an appropriate decision document, if necessary. EPA will then work to address and implement any necessary ICs by October 1, 2025. The RAO in Zones 2 and 3 will be achieved upon completion of the remedial action construction work in 2021 and implementation of ICs at those specific properties that may require them.

The OU1 remedy is also functioning as intended by the 2012 ROD in the areas of Zone 1 that were remediated so far (the former Carrie Gosch Elementary School and adjacent utility corridor). The selected soil cleanup levels for lead and arsenic have been achieved at the properties in Zone 1 that were remediated in accordance with the 2012 ROD. The 2020 Amended ROD remedy has yet to be implemented in the modified Zone 1 area.

QUESTION B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection still valid?

Yes. To date, there have been no changes in either the contaminant characteristics or toxicity standards for protection of soil as they relate to the COCs (lead and arsenic) at the Site. Standard risk assessment methods have not changed in a way that would affect the protectiveness of the remedy. EPA has also reviewed the applicable or relevant and appropriate (ARARs) used at the time of the remedy selection and no new ARARs need to be considered at his time. The IEUBK Version 2 was released on May 4, 2021 and the risk-based protection levels have not changed based on the new model default input parameters.

Region 5 understands that EPA Headquarters is considering changes to EPA's national lead policy. Following issuance of a revised national lead policy, Region 5 EPA would assess how any such changes affect the protectiveness of the OU1 remedy at this Site. If the Site soil remedy was found to no longer be protective, then appropriate changes to the Selected Remedy for OU1 would be documented in an appropriate decision document.

With the exception of modified Zone 1 where the WCHC was demolished, there are no significant changes in anticipated land use in the Site, and the reasonably anticipated future use for Zones 2 and 3 is still predominantly residential with some recreational and commercial/industrial use. The exposure assumptions and the RAO used at the time of the 2012 ROD remain valid for Zones 2 and 3. A 2020 ROD Amendment modified the remedy for Zone 1 and addressed the potential future land use change for modified Zone 1 from residential to industrial/commercial.

QUESTION C: Has any other information come to light that could call into question the protectiveness of the remedy?

No. No other information has come to light to call into question the protectiveness of the completed remedial actions at the USS Lead site. There have been no newly discovered ecological risks or significant impacts to OU1 from natural disasters or climate change.

VI. ISSUES/RECOMMENDATIONS

Issues/Recommendations
OU(s) without Issues/Recommendations Identified in the Five-Year Review:
None.

Issues and Recommendations Identified in the Five-Year Review:

OU(s): 1	Issue Category: Institutional Controls			
	Issue: ICs have not been determined nor implemented for Zones 2 and 3 properties.			
	Recommendation: Document the evaluation of properties with contamination at depth or existing barriers that prevented soil sampling and provide additional details and clarification of the ICs required in a decision document, if needed.			
Affect Current Protectiveness	**Affect Future Protectiveness**	**Party Responsible**	**Oversight Party**	**Milestone Date**
No	Yes	EPA	EPA	8/31/2022

OU(s): 1	Issue Category: Institutional Controls			
	Issue: ICs have not been determined nor implemented for Zones 2 and 3 properties.			
	Recommendation: Develop an ICIAP that will document the IC evaluation activities taking place to help determine the ICs required for OU1 properties and help evaluate the specific ICs that are needed to be implemented and who and how they will be implemented, maintained, and monitored.			
Affect Current Protectiveness	**Affect Future Protectiveness**	**Party Responsible**	**Oversight Party**	**Milestone Date**
No	Yes	EPA/ PRPs	EPA/State	12/30/2022

OU(s): 1	Issue Category: Institutional Controls			
	Issue: ICs are needed on Zones 2 and 3 properties.			
	Recommendation: Implement needed ICs.			
Affect Current Protectiveness	**Affect Future Protectiveness**	**Party Responsible**	**Oversight Party**	**Milestone Date**
No	Yes	EPA/PRPs	EPA/State	10/1/2025

OU(s): 1	Issue Category: Institutional Controls			
	Issue: Procedures are not in place to ensure long-term stewardship of ICs at the Site.			
	Recommendation: Develop and implement long-term stewardship procedures for monitoring and tracking compliance with existing ICs, communicating with EPA, and providing an annual certification to EPA that the ICs remain in place and are effective.			
Affect Current Protectiveness	**Affect Future Protectiveness**	**Party Responsible**	**Oversight Party**	**Milestone Date**
No	Yes	EPA/PRPs	EPA/State	10/31/2025

OU(s): 1	Issue Category: Operations and Maintenance			
	Issue: O&M potentially needed for properties with contamination at depth.			
	Recommendation: Develop/implement O&M Plan(s) in conjunction with ICIAP.			
Affect Current Protectiveness	**Affect Future Protectiveness**	**Party Responsible**	**Oversight Party**	**Milestone Date**
No	Yes	EPA/PRPs	EPA/State	12/30/2022

OU(s): 1	Issue Category: Other			
	Issue: An EPA FYR site inspection did not occur due to work travel restrictions related to the COVID-19 pandemic.			
	Recommendation: Complete an EPA FYR site inspection with FYR Site Inspection Checklist and photographs for inclusion in Site files as soon as is feasible.			
Affect Current Protectiveness	**Affect Future Protectiveness**	**Party Responsible**	**Oversight Party**	**Milestone Date**
No	Yes	EPA	EPA	6/1/2022

VII. PROTECTIVENESS STATEMENT

Protectiveness Statement(s)	
Operable Unit:1	*Protectiveness Determination:* Will be Protective

Protectiveness Statement: The remedy at OU1 is expected to be protective of human health and the environment upon completion. In the interim, remedial activities that have been completed to date in OU1 have adequately addressed all exposure pathways that could result in unacceptable risks in these areas.

VIII. NEXT REVIEW

The next FYR report for the U.S. Smelter and Lead Refinery, Inc. Superfund Site is required five years from the completion date of this review.

APPENDIX A – REFERENCE LIST

1. CH2M. 2019, USS Lead Zone 3 2017 Remedial Action Completion Report – U.S. Smelter and Lead Refinery, Inc. Operable Unit 1, Lake County, Indiana. May 2019.
2. CH2M. 2019, USS Lead Zone 3 2018 Remedial Action Completion Report – U.S. Smelter and Lead Refinery, Inc. Operable Unit 1, Lake County, Indiana. September 2019.
3. City of East Chicago. 2019, Letter from Mayor Anthony Copeland. December 16, 2019.
4. Industrial Development Advantage, LLC. 2019, East Chicago Zone 1 Property. November 15, 2019.
5. Parsons. 2019, Interim Zone 2 2018 Remedial Action Construction Report - U.S. Smelter and Lead Refinery, Inc. Operable Unit 1, Lake County, Indiana. September 2019.
6. Parsons. 2020, Interim 2 2019 Remedial Action Construction Report - U.S. Smelter and Lead Refinery, Inc. Operable Unit 1, Lake County, Indiana. September 2020.
7. Parsons. 2020, Zone 1 and 3 2019 Remedial Action Construction Report - U.S. Smelter and Lead Refinery, Inc. Operable Unit 1, Lake County, Indiana. September 2020.
8. SulTRAC. 2012, Remedial Investigation Report – U.S. Smelter and Lead Refinery, Inc. Operable Unit 1, Lake County, Indiana. June 2012.
9. SulTRAC. 2016, Data Evaluation Report for Sampling Conducted During 2014-2015 - U.S. Smelter and Lead Refinery, Inc. Operable Unit 1, Lake County, Indiana. July 2016.
10. SulTRAC. 2017, Data Evaluation Report for Sampling Conducted from August to December 2016 - U.S. Smelter and Lead Refinery, Inc. Operable Unit 1, Lake County, Indiana. July 2017.
11. SulTRAC. 2018, Data Evaluation Report for Sampling Conducted from January to November 2017 - U.S. Smelter and Lead Refinery, Inc. Operable Unit 1, Lake County, Indiana. February 2018.
12. SulTRAC. 2019, Data Evaluation Report for Sampling Conducted from April to December 2018 - U.S. Smelter and Lead Refinery, Inc. Operable Unit 1, Lake County, Indiana. June 2019.
13. SulTRAC. 2020, Data Evaluation Report for Sampling Conducted from March to November 2019 and September 2020 - U.S. Smelter and Lead Refinery, Inc. Operable Unit 1, Lake County, Indiana. December 2020.
14. TetraTech. 2020, Summary Report - U.S. Smelter and Lead Refinery, Inc. Operable Unit 1, Lake County, Indiana. August 2020.
15. U.S. Environmental Protection Agency (EPA). 2008a, Action Memorandum – Request to Conduct a Time-Critical Removal Action at the residential portion of the USS Lead Site, January 2008.

16. U.S. Environmental Protection Agency (EPA). 2008b, Action Memorandum #2 - Request for Ceiling Increase to complete the Time-Critical Removal Action at the USS Lead Site, August 2008.

17. U.S. Environmental Protection Agency (EPA). 2011, Action Memorandum – Request for Approval and Funding for a Time-Critical Removal Action at the U.S. Smelter and Lead Refinery, Inc., Lake County, Indiana, September 2011.

18. U.S. Environmental Protection Agency (EPA). 2012a, Remedial Investigation Report – U.S. Smelter and Lead Refinery, Inc. Operable Unit 1, Lake County, Indiana. June 2012

19. U.S. Environmental Protection Agency (EPA). 2012b, Record of Decision – U.S. Smelter and Lead Refinery, Inc. Operable Unit 1, Lake County, Indiana. November 2012.

20. U.S. Environmental Protection Agency (EPA). 2014, Consent Decree Relating to Response Actions & Response Costs in Zones 1 & 3 of Operable Unit 1 – U.S. Smelter and Lead Refinery, Inc., Lake County, Indiana. September 2014.

21. U.S. Environmental Protection Agency (EPA). 2016a, Action Memorandum – Third Amendment: Request for an Exemption from the $2 Million and 12-month Statutory Limits, Change in Scope of the Response and Ceiling Increase for the Time-Critical Removal Action at the U.S. Smelter and Lead Refinery, Inc., Lake County, Indiana, September 2016.

22. U.S. Environmental Protection Agency (EPA). 2016b, Action Memorandum – Fourth Amendment: Request for a Change in Scope and Ceiling Increase for the Time-Critical Removal Action at the U.S. Smelter and Lead Refinery, Inc., Lake County, Indiana, October 2016.

23. U.S. Environmental Protection Agency (EPA). 2017a, Administrative Settlement Agreement and Order on Consent for Removal Actions in Zones 2 and 3 of Operable Unit 1 – U.S. Smelter and Lead Refinery, Inc., Lake County, Indiana, March 2017.

24. U.S. Environmental Protection Agency (EPA). 2017b, Action Memorandum – Fifth Amendment: Request for a Change in Scope and Ceiling Increase for the Time-Critical Removal Action at the U.S. Smelter and Lead Refinery, Inc., Lake County, Indiana, March 2017.

25. U.S. Environmental Protection Agency (EPA). 2018a, Unilateral Administrative Order for Remedial Action in Zone 2 of Operable Unit 1 – U.S. Smelter and Lead Refinery, Inc., Lake County, Indiana. January 2018.

26. U.S. Environmental Protection Agency (EPA). 2018b, Unilateral Administrative Order for Interior Removal Actions in Zone 2 and Zone 3 of Operable Unit 1 – U.S. Smelter and Lead Refinery, Inc., Lake County, Indiana. January 2018

27. U.S. Environmental Protection Agency (EPA). 2018c, Explanation of Significant Differences - U.S. Smelter and Lead Refinery, Inc. Operable Unit 1, Lake County, Indiana. April 2018.

28. U.S. Environmental Protection Agency (EPA). 2019, Unilateral Administrative Order for Remedial Action for Defined Properties in Operable Unit 1 – U.S. Smelter and Lead Refinery, Inc., Lake County, Indiana, March 2019.

29. U.S. Environmental Protection Agency (EPA). 2020a, Record of Decision Amendment – U.S. Smelter and Lead Refinery, Inc. Operable Unit 1, Lake County, Indiana. March 2020.

30. U.S. Environmental Protection Agency (EPA). 2020b, Unilateral Administrative Order for Remedial Action for Group 2 Defined Properties in Operable Unit 1 – U.S. Smelter and Lead Refinery, Inc., Lake County, Indiana. May 2020.

31. U.S. Environmental Protection Agency (EPA). 2020c, Unilateral Administrative Order for Remedial Action for Group 3 Defined Properties in Operable Unit 1 – U.S. Smelter and Lead Refinery, Inc., Lake County, Indiana. May 2020.

APPENDIX B – SITE BACKGROUND

Site History and Contamination

The USS Lead facility, located in OU2 at 5300 Kennedy Avenue, East Chicago, Indiana, south of modified Zone 1 and Zone 2, was constructed in 1906 and used an electrolytic process (the Betts process) to refine lead bullion shipped predominantly from Midvale, Utah, to East Chicago, Indiana. Because lead refining produces a number of byproducts, the USS Lead facility also included various secondary metal treatment operations such as secondary lead smelting. Throughout most of its history, the USS Lead facility accepted scrap lead from a variety of sources for treatment in its secondary lead smelting operations. These secondary lead smelting operations involved a blast furnace. In approximately 1972, the USS Lead facility stopped refining lead bullion and increased its blast furnace capacity to treat more scrap lead material. In 1985, operations ceased at the USS Lead facility.

Starting in 1993, the USS Lead Company began a cleanup of its facility. This facility cleanup did not include a cleanup of the residential neighborhoods to the north and northeast now known as OU1. The facility cleanup was conducted under state and federal programs authorized by the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Sections 6901 to 6992k. During the investigation and cleanup of the USS Lead facility under RCRA, it was determined that among other sources of contamination, slag from the blast furnace was routinely placed in piles on the ground at the USS Lead facility and left exposed to the elements. Lead and arsenic contaminated particulate matter were released into the environment in at least three ways: through stacks as fumes from operations, as dust from the baghouses, and as dust from lead waste piles (e.g., slag and baghouse dust).

A facility formerly owned and operated by subsidiaries of the Anaconda Copper Mining Company (Anaconda) was located immediately north of the USS Lead facility and covered the area later occupied by the WCHC in what is now referred to as Zone 1 of OU1. The Anaconda facility operated three inter-related processes. In 1912, a lead refinery was built on the Anaconda facility, which used a pyrometallurgical process to refine lead bullion that was shipped from Tooele, Utah, to East Chicago, Indiana. In 1919, a white lead plant was constructed at the Anaconda facility to produce white lead for use as an ingredient in lead paint. Finally, in 1922, a zinc oxide plant was added to the Anaconda facility.

As with the USS Lead facility, the Anaconda facility also operated numerous secondary metal treatment processes. Byproducts of these operations included slag, lead waste, and arsenic. Among other sources of contamination, arsenic was burned off and some, but not all, of the arsenic-contaminated particulate matter was recovered in flues and a baghouse. Lead and arsenic contaminated particulate matter were released into the environment from stacks and as fugitive emissions. Operation of the white lead process generated additional lead emissions.

Significant quantities of lead were refined at the Anaconda facility from 1912 until 1946, when Anaconda Copper Mining Company sold the Anaconda facility to Eagle-Picher Company. Eagle-Picher Company appears to have continued operations at the Anaconda facility until at least 1952, though the extent of its operations is largely unknown. Sometime between 1952 and 1970, the Anaconda facility was demolished. In the early 1970s, the WCHC was constructed within the footprint of the former Anaconda facility.

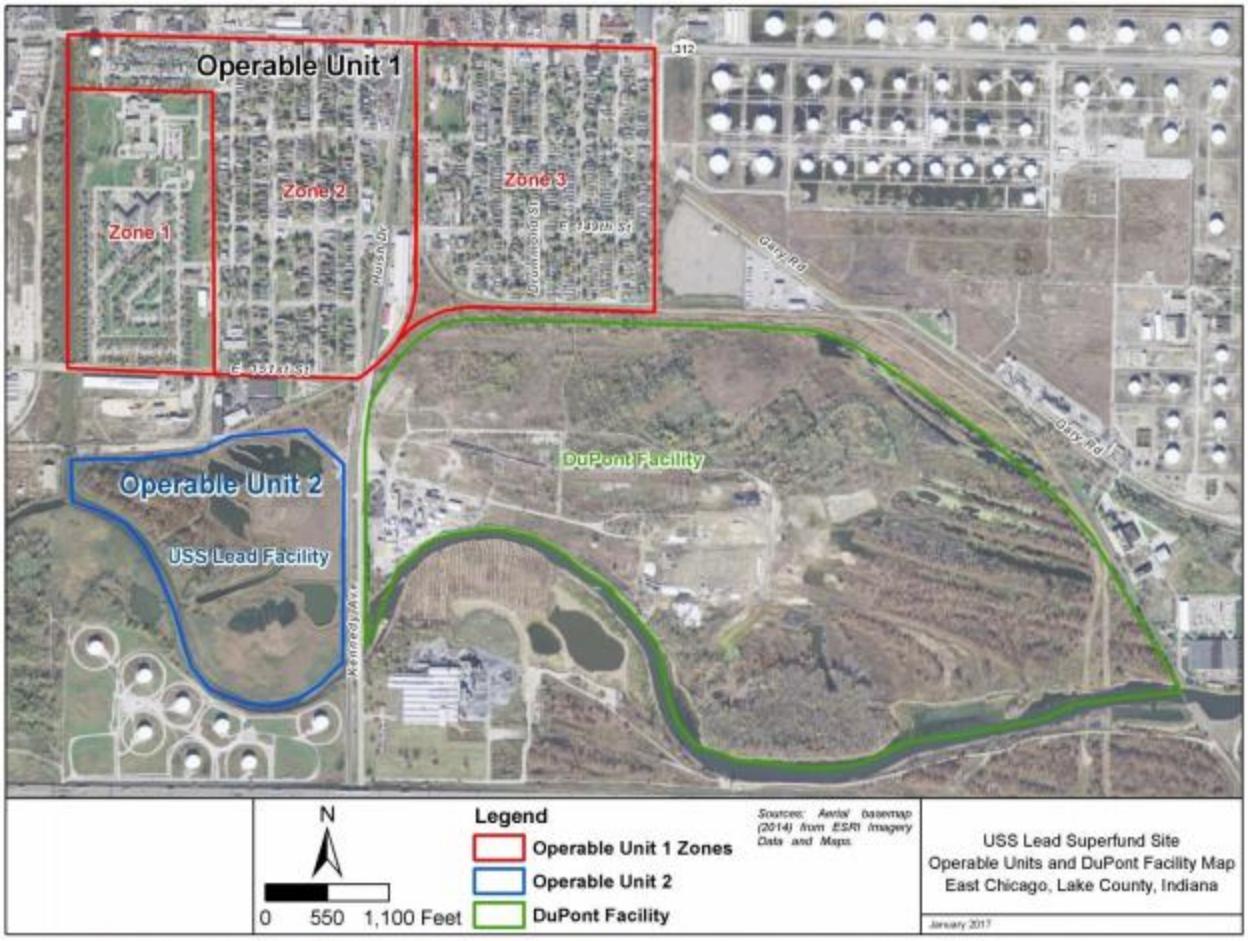


Figure 1 – Overview of USS Lead Superfund Site and Surrounding Area

A facility opened and operated by E.I. du Pont de Nemours and Company (DuPont) for most of its operations, located south of Zone 3 at 5215 Kennedy Avenue, East Chicago, Indiana, was constructed in 1892 to manufacture various organic and inorganic chemicals. Over the course of its operations, the DuPont facility produced over one hundred different chemicals, including lead and calcium arsenate (1910–1949). Lead and arsenic particulate generated from DuPont operations was released into the environment as stack emissions, precipitator dust, and dust from exposed waste piles stored on the grounds of the DuPont facility. Lead and arsenic from the DuPont facility migrated into OU1. General operations at the DuPont facility contracted significantly during the 1980s and 1990s. Between 2015 and 2018, the DuPont facility was owned and operated by The Chemours Company ("Chemours"), after Chemours was spun off from DuPont. In 2018, Chemours sold the DuPont facility to East Chicago Gateway Partnership LLP. Currently, contamination within the DuPont facility, which lies outside the boundaries of the Site, is being addressed under federal RCRA authorities.

In 2007, EPA transferred responsibility for investigation of off-site impacts from the USS Lead facility from its RCRA program to its Superfund program. The Superfund program performed limited sampling in 2007. The sampling in 2007 identified certain residences with concentrations of lead in soils greater than 1,200 parts per million (ppm). In 2008 and 2011, EPA removed contaminated soils from 29 residential properties in Zones 1, 2 and 3 at which concentrations of lead in soils exceeded 1,200 ppm. In April 2009, EPA placed the Site on the NPL.

APPENDIX C– COMMUNITY INVOLVEMENT TIMELINE

USS Lead Superfund Site Community Involvement Activities (2006-Present)	
2006	
Jan.	Established local repository at East Chicago Public Library; established site web page
Mar.	Mailed fact sheet "EPA to Begin Testing for Lead Contamination in Yards" to site mailing list recipients
Mar. 22-23	Held informal meetings to explain sampling process and obtain access agreements for sampling in Zone 1
Jun.	Provided information to East Chicago council members regarding Superfund process
Dec.	Mailed postcard to residents thanking them for letting EPA take samples from yards in Zone 1
2007	
Oct.	Mailed EPA/IDEM fact sheet announcing availability session
Nov. 8	Held Town Hall Meeting in Zone 1
Dec. 5	Held RCRA/Superfund informational meeting in Zone 1
2008	
Sep.	Proposed USS Lead site to the National Priority List (NPL)
2009	
Jun.	Mailed postcard "EPA Begins Cleanup" to mailing list recipients in Zones 1-3
Sep. 3	Added USS Lead site to the NPL
Summer	Obtained additional access agreements for properties in Zone 3
Nov. 24	Mailed postcard announcing December 7-8, 2009 information sessions to mailing list recipients in Zones 1-3
Nov. 30	Placed ad in *Gary Post Tribune* announcing December 7-8, 2009 information sessions for Zones 1-3 Placed Spanish ad in *La Raza* announcing December 7-8, 2009 information sessions for Zones 1-3
Dec. 7-8	Held informational meetings to discuss sampling activities in Zones 1-3
Dec. 9	Mailed fact sheet "EPA to Begin Testing for Lead Contamination" and "EPA a Comenzar Las Pruebas de Contaminacion de Plomo in Patios" (English and Spanish) to mailing list recipients in Zones 1-3; fact sheet also announced the December 17 informational meeting
Dec. 17	Held informational meeting to explain residential testing process and answer questions for Zones 1-3
Dec.	Collected samples at properties in Zones 2 and 3
2010	
Mar. 9	Attended meeting with the city of East Chicago department heads
Apr.	Mailed sampling results from December 2009 sampling event to property owners in Zones 2 and 3
May 23	Placed ad in *Northwest Indiana Times* announcing community interviews (English and Spanish) for Zones 1-3
Jun. 2	Placed second ad in *Northwest Indiana Times* announcing community interviews (English and Spanish) for Zones 1-3
Jun. 8-10	Held community interviews with residents from Zones 1-3 to develop Community Involvement Plan (CIP); Spanish translator was on site to assist
Jul. 24	Participated in Calumet Days and distributed lead-prevention information
Aug.	Collected additional samples and obtained additional access agreements for properties in Zones 2 and 3

2011	
Apr.	Published Community Involvement Plan
May	Mailed sampling results from August 2010 sampling event to property owners in Zones 2 and 3
Oct.	Hand delivered sampling results with color-coded pages explaining results and levels of contamination to residents in Zones 1-3; left "Sorry We Missed You" letters to residents that were not home
Dec.	Prepared presentation regarding status of USS Lead site
2012	
Jul. 6	Mailed fact sheet "EPA Proposed Cleanup Plan for Residential Area" and "La EPA Propone Plan de Limpieza para Area Residencial" that announced the public comment period and public meeting to mailing list recipients in Zones 1-3
Jul. 11	Placed ads in *Gary Post Tribune* and *Que Viva* (Spanish) announcing public comment period and public meeting for Zones 1-3
Jul. 25	Held public meeting regarding proposed plan for Zones 1-3
Jul. 12-Aug. 11	Held public comment period for Zones 1-3
Aug. 26	Placed ads in *Gary Post Tribune* and *Que Viva* (Spanish) announcing extension of public comment period for Zones 1-3
Aug. 11-Sep. 10	Held extended public comment period for Zones 1-3
2013	
Aug.	Two local Walgreens distributed gardening and other information for Zones 1-3 Riley Park & MLK Center distributed gardening and other information for Zones 2 and 3
2014	
Oct. 2 & 24	Attended Task Force meetings
Nov. 5	Mailed fact sheet "Agreement Helps Start Project to Clean Up Contaminated Soil" to mailing list recipients in Zones 1-3; fact sheet also announced information session for Zones 1-3
Nov. 18-19	Held information sessions to discuss cleanup activities for Zones 1-3
Dec. 10	Mailed letters requesting access agreements and provided information about cleanup for Zone 3
2015	
Feb.-Sep.	Went door-to-door to obtain access agreements; left "missed you" flyers on doors where residents were not present in Zone 3
Jul.	Mailed packets to residents in Zone 3 that were not home or those that denied access (packets included access agreement, fact sheet, property values info, ATSDR fact sheet)
Sep.	Met with local health department regarding result letters to residents, and what action they can take
Oct.-Dec.	Provided on-site support in local neighborhood office
Oct.	Received list of owners in Zones 1-3 from East Chicago Water Department and Assessor's Office to find owner names and phone numbers to send packets to (packets included access agreement, fact sheet, property values info, ATSDR fact sheet)
Nov.	Mailed packets to residents in Zone 3 that were not home or those that denied access (packets included access agreement, fact sheet, property values info, ATSDR fact sheet) Called and left messages to obtain access agreements from residents in Zone 3 that were not home or had previously denied access Mailed letter and access agreements to five city of East Chicago councilmen asking for assistance in obtaining access agreements from property owners in Zones 1-3 Mailed letter and access agreements to nine local churches asking for assistance in getting access

	agreements for Zones 1-3
Dec.	Called and left messages to obtain access agreements from residents in Zone 3 that were not home or had previously denied access
2016	
Mar-May	Went door-to-door to obtain access agreements; left "missed you" flyers on doors in Zone 3
Jun.	Met with the city of East Chicago officials and provided them with draft education brochures for their review and comment Established site hotline number for residents to call with questions and concerns: 219-801-2199
Jul. 5	Went door-to-door to the residences of the West Calumet Housing Complex (Zone 1) and left lead prevention flyers that provided ways to avoid exposure to contaminated dirt and mulch; flyers also contained ways to contact the EPA Community Involvement Coordinator
Jul. 11	Established a site trailer at the corner of 149th Street and McCook Avenue, which was staffed by EPA outreach personnel to answer resident questions
Jul. 20	Went door-to-door to the residences of the West Calumet Housing Complex (Zone 1) and left fact sheet "EPA Takes Action to Reduce Exposure to Lead in Soil" that provided ways to avoid exposure to contaminated dirt and mulch; fact sheet also contained ways to contact the EPA Community Involvement Coordinator Placed "Do not play in the dirt or mulch" yard signs throughout the neighborhood of the West Calumet Housing Complex (Zone 1) and left "Don't Let Kids Play in Dirt" flyers and contact information for the EPA Community Involvement Coordinator with residents
Jul. 22	Placed additional "Do not play in the dirt or mulch" yard signs throughout the neighborhood of the West Calumet Housing Complex (Zone 1)
Jul. 25-27	Went door-to-door to residences in Zone 1 to obtain signed access agreements for indoor dust sampling
Aug.	Published Residents Guide to Temporary Relocation for residents in Zone 1 Distributed Temporary Relocation flyer to residents in Zone 1
Aug. 2-6	Canvassed homes in Zone 2 to obtain access for soil sampling
Aug. 3	Attended meeting with mayor and East Chicago Housing Authority
Aug. 4	Contacted 24 units to date regarding indoor cleaning and temporary relocation in Zone 1; 23 expressed interest
Aug. 8	Attended school district meeting and availability session with ATSDR and school district
Aug. 16	Attended meeting at First Baptist Church with East Chicago Ministers Alliance
Aug. 18	Attended West Calumet Housing Complex resident meeting
Aug. 26	Went door-to-door to residents in Zone 1 and left packets containing Drinking Water Safety: Information for East Chicago Residents and EPA's Home Cleaning Process: What Residents Need to Know
Aug. 29	Hand delivered indoor sampling results letters to residents in Zone 1
Aug. 30	Held Multi-Agency Open House for Zones 1-3 (post card announcement)
Aug. 31	Hand delivered indoor sampling result letters to residents in Zone 1
Sep. 1	Delivered two CDs with Administrative Record to local library repositories
Sep. 7	Participated in HUD Fun Day
Sep. 12	Mailed postcards to residents in Zones 2 and 3 announcing Open House
Sep. 14	Delivered postcards announcing Open House to ECCC president to distribute at Mexican Day Parade Conducted door-to-door canvassing in Zone 2 to obtain access agreements
Sep. 16	Conducted canvassing in Zone 1 to obtain access agreements from non-responsive residents

Sep. 20	Placed yard signs in yards in Zones 2 and 3 announcing Open House
Sep. 24	Held Open House for Zones 2 and 3 to provide information on sampling and cleanup of contaminated soil in yards Distributed factsheets "EPA To Begin Cleaning Up Lead-Contaminated Yards" at the Open House
2016(cont'd)	
Oct.	Distributed door hangers "EPA Needs to Meet with You" (Tap Water Sampling/Excavation) in Zones 2 and 3 Distributed door hangers "EPA Needs to Hear from You" (unit cleanup and interviews) in Zone 1 Mailed "Tap Water Sampling Instructions" to mailing list recipients in Zones 2 and 3 Distributed door hangers about tap water sampling and soil excavation to homes slated for cleanup in Zones 2 and 3 Distributed door hangers about interior cleaning to West Calumet Housing Complex units
Oct. 2	Mailed factsheets "EPA To Begin Cleaning Up Lead-Contaminated Yards" to mailing list recipients in Zones 1-3
Oct. 1-21	Identified priority sites in Zones 2 and 3 and conducted door-to-door canvassing for tap water and dust sampling before excavation activities
Oct. 6	Met with advisors to local community group, ECCC (Superfund and Office of Regional Counsel)
Oct. 13 & 20	Identified priority sites in Zone 1; conducted door-to-door canvassing for indoor sampling and temporary relocation
Oct. 29	Attended ECCC meeting in East Chicago (ORC attorney and CIC) Held Community Resources Meeting focusing on Technical Advisor Grant (TAG) and Technical Assistance Services for Communities (TASC) programs
Nov. 1-8	Conducted door-to-door canvassing of priority sites in Zones 2 and 3 for tap water and dust sampling before excavation activities Conducted door-to-door canvassing of residents in Zones 2 and 3 slated for soil cleanup regarding tap water and dust sampling
Nov. 10	Met with advisors to ECCC (ORC and Superfund)
Nov. 17	Met with advisors to ECCC (ORC attorney)
Nov. 30	Mailed postcards "USS Lead Site Open House Set for Saturday, Dec. 10 from 1-4 p.m." in both English and Spanish to mailing list recipients in Zones 1-3
Dec.	Responded to ECCC advisor regarding questions and concerns
Dec. 8	Placed ad in *Gary Post Tribune* announcing the Dec. 10 Open House (English and Spanish)
Dec. 10	Multi-Agency Open House canceled due to possible lapse of EPA funding; was rescheduled to Jan. 28
Dec. 15	Mailed fact sheet "Excavation to End for Winter; Community Activities Continue" in English and Spanish to mailing list recipients in Zones 1-3
2017	
Jan. 4	Mailed postcard to residents in Zones 1-3 announcing the Jan. 28 Open House
Jan. 25	Placed ad in *Gary Post-Tribune* in English and Spanish announcing the Jan. 28 Open House
Jan. 28	Held Multi-Agency Open House at the former Carrie Gosch Elementary School
Jan. 31	Mailed postcard "Superfund Workshop" to mailing list recipients in Zones 1-3
Feb. 18	Conducted "Superfund for Communities" workshop
Apr. 1	Attended ECCC meeting
Apr. 5	Gave NAACP members tour of Zones 1-3

	Attended Community Listening Session
Apr. 10-21	Held Superfund Job Training Initiative Program
Apr. 19	Residents met with EPA Administrator Scott Pruitt
Apr. 27	Held meeting with Region 5 Regional Administrator and East Chicago community groups Held Superfund Job Training Initiative Graduation Ceremony
2017 (cont.)	
May 31	Maintained an EPA presence at the former Carrie Gosch Elementary School so residents can easily stop in and speak to EPA employees Tracked all resident inquiries in a database to ensure responses are provided in a timely manner Continued to meet regularly with local, state, and federal partners to keep officials apprised of EPA's work and data collection in the community Regularly updated the USS Lead Superfund website and added frequently asked questions
Jun. 12	Mailed postcard announcing monthly Saturday meetings to mailing list recipients in Zones 2 and 3
June	Scheduled monthly calls with community leaders to discuss and plan agenda topics for monthly Saturday meetings
Jun. 24	Held first monthly Saturday public meeting at former Carrie Gosch Elementary School Meeting Topic: Updates on past, present and future activities at the site
Jul. 6	Mailed postcard to residents announcing change in time for the second monthly meeting
Jul. 15	Held second monthly Saturday public meeting at former Carrie Gosch Elementary School Meeting Topic: Lead in Drinking Water Provided update on site activities to public meeting attendees
Jul. 26	Mailed postcards to specific list of residents in Zone 3 informing them their property will be cleaned up in 2018
Aug.	CICs hand delivered information packets to residents at Cardinal Terrace Apartments
Aug. 15	Placed ad in *Northwest Indiana Times* announcing Letter of Intent from ECCC to apply for $50,000 TAG
Aug. 19	Held monthly Saturday public meeting at former Carrie Gosch Elementary School Meeting Topic: Updates on past, present and future activities at the site
Sep.	Notified ECCC to submit TAG application by EPA TAG coordinator
Sep. 16	Held monthly Saturday public meeting at former Carrie Gosch Elementary School Meeting Topic: Presentation by Land and Chemicals Division on DuPont Facility
Sep. 18	Mailed postcard to residents announcing change in date for October monthly meeting
Oct. 10	Mailed flyer to residents announcing door-to-door outreach efforts regarding groundwater survey
Oct. 14	Held monthly Saturday public meeting at former Carrie Gosch Elementary School Meeting Topic: Updates on past, present and future activities at the site
Oct 18, 19, 25	Conducted door-to-door outreach efforts regarding groundwater survey
Oct. 24 & 25	Director of Environmental Justice Matthew Tajada and EPA representatives met with community groups
Nov.	Cancelled and rescheduled Multi-Agency Open House at the request of community groups Developed USS Lead Superfund Site Information Resource List (English and Spanish) Developed PUR Filter Installation/Change Fact Sheet (English and Spanish) Mailed postcards (English and Spanish) to residents in Zones 2 and 3 notifying them of cancellation of Nov. 18 Multi-Agency Open House and rescheduled date of Open House for Jan. 20, 2018 Participated in ECCC's Lunch and Learn program

	Delivered postcards "EPA Needs to Meet with You" to homes where there was no response from residents for indoor dust sampling (English and Spanish)
Dec. 5	Mailed Resource List and PUR Water Filter Flyers to residents in Zones 2 and 3 (English and Spanish)
Dec. 11	Placed ad in the *Northwest Indiana Times* announcing Public Comment Opportunity on the Explanation of Significant Differences (ESD) proposed document
Dec. 12	Mailed Notice of Public Comment Opportunity for the proposed document of ESD to residents in Zones 2 and 3 (English and Spanish)
2018	
Jan. 5	Mailed postcard to residents in Zones 2 and 3 announcing Jan. 20 public meeting (English and Spanish)
Jan. 20	Held Saturday public meeting at former Carrie Gosch Elementary School Meeting Topic: Explanation of Significant Difference, Unilateral Administrative Orders and Site Updates Delivered copies of the ESD and Unilateral Orders to Information Repositories
Jan. 26	Mailed flyer to residents in Zones 2 and 3 announcing Feb. 15 public meeting regarding the ESD proposed document (English and Spanish)
Jan. 31	Placed ad in the *Northwest Indiana Times* announcing the Feb. 15 ESD public meeting (English and Spanish)
Feb. 15	Held public meeting at East Chicago Public Library to discuss the ESD proposed document (Estimated Increased Cleanup Costs); court reporter was present to record comments
Mar. 16	Mailed flyer to residents in Zones 2 and 3 announcing the April 7 Construction Kickoff meeting (English and Spanish)
Mar. 28	Placed ad in the *Northwest Indiana Times* announcing the April 7 Construction Kickoff meeting (English and Spanish)
Apr. 7	Held public meeting and open house at former Carrie Gosch Elementary School Meeting Topic: Construction Update and Open House Held listening session at former Carrie Gosch Elementary School with EPA Region 5 Regional Administrator, IDEM Commissioner and Senior Advisor to Administrator Pruitt
Apr. 17	Conducted East Chicago Calumet Coalition Site Tour of Zone 1
May	Established community outreach office at former Carrie Gosch Elementary School; EPA staff available Monday through Friday; and hotline number is posted if staff not available
May 3	Mailed first postcard to residents announcing community interviews being held in June (English and Spanish)
May 8	Published ad in *Northwest Indiana Times* announcing the issuance of the USS Lead ESD
May 23	Mailed second postcard to residents to residents announcing June community interviews (English and Spanish)
May	Prepared Community Interview Process Fact Sheet (English and Spanish) Posted the Difference Between RCRLA and CERCLA Fact Sheet (English and Spanish) on site web page
May 31	Delivered packets containing English and Spanish versions of Community Interview Process factsheet and previous factsheets to local churches and ECCC's president for distribution
Jun. 11-15	Held community interviews with residents, local church pastors, local city official and other interested community members to update Community Involvement Plan (CIP); Spanish translator was on site to assist
Jul. 28	EPA had a booth and participated at Calumet Days
Aug. 3	Mailed postcard to residents in Zones 2 and 3 announcing the meeting regarding the ATSDR Health Study Update (English and Spanish)
Aug. 18	Held meeting at former Carrie Gosch Elementary School regarding ATSDR Health Study Update

Sep. 25	EPA awarded TAG to ECCC
Sep. 28	Mailed flyer to residents in Zones 2 and 3 announcing Super Hero Kids Blood Lead Testing Health Fair
Sep. 30	Published ad in *Northwest Indiana Times* announcing the Super Hero Kids Blood Lead Testing Health Fair
Oct. 3	Hand delivered flyers announcing Super Hero Kids Blood Lead Testing Health Fair to local churches and daycares
Oct. 4 & 10	Conducted door-to-door outreach in Zones 2 and 3 to encourage residents to attend the Super Hero Kids Blood Lead Testing Health Fair
Oct. 11	Held Super Hero Kids Blood Lead Testing event at Martin Luther King Community Center
Oct. 26	Mailed postcards announcing the "End of Construction Season" meeting scheduled for Nov. 17
2018 (cont.)	
Nov. 6	Mailed Proposed Plan for Zone 1 fact sheet to residents, which announced the Nov. 29 meeting and the public comment period
Nov. 7	Published ad in *Northwest Indiana Times* announcing the "End of Construction Season" meeting (in Spanish and English)
Nov. 11	Published ad in *Northwest Indiana Times* announcing the Proposed Plan for Zone 1 public meeting and public hearing and announcing the public comment period (in Spanish and English)
Nov. 12	Began 60-day public comment period for proposed plan for Zone 1 (Nov. 12 – Jan. 14, 2019)
Nov. 17	Held "End of Construction Season" meeting at former Carrie Gosch Elementary School
Nov. 27	Notified community that monitoring wells will be installed week of Nov. 26
Nov. 28	Mailed "End of Construction Season" fact sheet
Nov. 29	Conducted USS Lead site tour with Black Chambers of Commerce
Nov. 29	Held public meeting and public hearing at Robert A. Pastrick Library
Dec. 14	Mailed flyer announcing second Proposed Plan for Zone 1 meeting for Jan. 10, 2019 (in Spanish and English)
Dec. 31	Mailed postcard announcing cancellation of Jan. 10 meeting due to government shutdown (in Spanish and English)
2019	
Jan. 29	Submitted copies of the Community Involvement Plan and Nov. 29, 2018 public meeting transcripts to the information repositories Sent copies of the Community Involvement Plan to the leaders of the East Chicago Calumet Coalition, Calumet Lives Matter and Community Strategy Group
Feb. 1.	Mailed flyer announcing the rescheduled meeting for the Proposed Plan for Zone 1 to residents, which announced the rescheduled Feb. 13 meeting and the public comment period
Feb. 4	Published ad in *Northwest Indiana Times* announcing the second Proposed Plan for Zone 1 public meeting and public hearing and announcing the public comment period (in Spanish and English)
Feb. 11	Began second 30-day public comment period for Proposed Plan for Zone 1 (Feb 11 – Mar. 13)
Feb. 13	Held second public meeting and public hearing for the Proposed Plan for Zone 1 at the former Carrie Gosch Elementary School
Feb. 14	Mailed Proposed Plan Q&A fact sheet to residents
Mar. 5	Mailed copies of Nov. 29, 2018 and Feb. 13, 2019 public meeting transcripts to leaders of the East Chicago Calumet Coalition, Calumet Lives Matter and Community Strategy Group
Mar. 13	Mailed postcard announcing Construction Season Kick-Off Open House to be held April 6 at former Carrie Gosch Elementary School
Apr. 6	Held Construction Season Kick-Off Open House at former Carrie Gosch Elementary School
Apr. 12	Issue No. 1 of USS Newsletter published
Jun. 24	Office of Inspector General held meeting with Calumet Lives Matter/Community Strategy Group
Jun. 25	EPA Staff gave Office of Inspector General staff a tour of the site
Jun. 26	Office of Inspector General Listening Session/Public Meeting with residents

Jul. 3	Issue No. 2 of USS Lead Newsletter published
Sep. 26	Mailed postcard announcing October 17 Open House to be held at the former Carrier Gosch Elementary School; delivered 50 copies of flyer announcing October 17 Open House to local churches and community groups for distribution
Oct. 3	Issue No. 3 of USS Newsletter published and mailed to residents
Oct. 4	Mailed flyer in English and Spanish announcing October 17 Open House to be held at former Carrie Gosch Elementary School
Oct. 17	Held "End of Construction Season" Open House at former Carrie Gosch Elementary School
2020	
Mar. 25	EPA Administrator Andrew Wheeler signed modified Zone 1 cleanup plan.
Apr. 14	Issue No. 4 of USS Lead Newsletter published and mailed to residents.
July	USS Lead Partial Deletion Activities
Jul. 8	At the start of the public comment period, EPA mailed detailed fact sheets to everyone within the Superfund site and on the mailing list for the USS Lead site explaining why EPA is proposing to delete the 671 properties from the NPL and explaining what deletion of these properties means. These fact sheets are also available in Spanish upon request.
Jul. 9	EPA sent individual letters to all 671 property owners, along with the fact sheet, to notify them that EPA was proposing to delete their property from the USS Lead site and explaining what that means.
	EPA posted an announcement of the public comment period on the USS Lead website (www.epa.gov/uss-lead-superfund-site) with detailed instructions on how to comment, along with links to the fact sheet (in English and Spanish) and the deletion docket containing site information supporting deletion.
	EPA issued a press release to announce the proposed deletion and the start of the public comment period. This release resulted in stories in the two local newspapers and some radio stations, along with a short news spot on WGN-TV and NBC-Chicago.
Jul. 10	EPA placed an ad in the local newspaper, *The Northwest Times*, in English and Spanish, announcing the proposed deletion and the public comment period.
	EPA placed calls to the law clinics, congressional staff, and the City of East Chicago to notify them of the start of the public comment period.
	EPA notified the East Chicago Calumet Coalition, Calumet Lives Matter, the Community Strategy Group Leaders and the District Councilman of the comment period and the partial delisting process.
	EPA emailed the fact sheet to the community leaders and stakeholders to notify them of the start of the public comment period.
	A special phone line was set up to accept oral comments for those who may not have internet access in their homes, since libraries and public internet spaces are closed.
	The public was informed they can submit comments through the USS Lead site webpage, by email or by phone in English or Spanish.
Sep. 30	EPA announced the partial deletion was final.
2021	
Jan. 3	Website updated to announce the first Five Year Review of the USS Lead site.
Jan. 3	"First Five-Year Review Underway" fact sheet (English and Spanish) posted on USS Lead website.
Jan. 4	"First Five-Year Review Underway" fact sheet emailed to community groups, law clinics.
Jan. 5	Public notice ad published in *Northwest Indiana Times* announcing the Five-Year Review of the USS Lead Site.
Jan. 8	EPA issued press release on USS Lead Five-Year Review.