

June 18, 2024

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Steven P. Kaiser Jamie Getz Adam Mittermaier

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RE: Monthly Progress for June 2024, USS Lead Superfund Site Known as Modified Zone 1, East Chicago, Lake County, State of Indiana; 15773.0233.

Dear Mr. Green, Mr. Kaiser, Ms. Getz, Mr. Mittermaier, Mr. Petroff, and Ms. McCoy:

Verdantas LLC (Verdantas) on behalf of the "Purchaser" Industrial Development Advantage of East Chicago, LLC (IDA) submits this monthly progress report to the U.S. Environmental Protection Agency (USEPA), Region 5, and the Indiana Department of Environmental Management (IDEM) as described in Paragraph 4.1 of the Statement of Work (SOW) in Appendix A of the Administrative Settlement Agreement for Remedial Action by Prospective Purchaser (Settlement). This progress report summarizes efforts by IDA to fulfill the requirements of the Settlement during the June 2024 reporting period. The



monthly progress reports will be submitted only in electronic form as directed by the USEPA.

1. <u>Activities completed during this period towards achieving compliance with</u> the Settlement.

- a. The Purchaser continues to evaluate sources of import fill material and is actively selecting import material.
- b. During May 15, 2024- June 14, 2024, BCM excavated soil, continued fence work, and loaded out 29 loads/547.92 tons of soil and were disposed at Laraway Landfill.
- c. Air monitoring and reporting continues during ground disturbance activities.
- d. See Table 1 for a summary of work completed by Decision Unit.

2. Results of sampling, tests, and all other data received or generated by the Purchaser.

Sampling was conducted for the following from May 15, 2024 to June 14, 2024:

- a. Confirmation samples were collected from decision unit E7-east during this period. All decision units requiring excavation from inside the fenced portion of the site have been removed and loaded out for disposal except for decision unit B8 which was left in place as a potential staging area for material handling related to F-row decision units. The only remaining areas requiring removal are the F-row decision units in the pipeline right of way.
- b. Perimeter Air sampling was conducted on the following dates May 20-24, (no samples May 27 due to holiday), May 28-31, June 3-7, June 7-14.
- c. Fence replacement is complete.

3. A description of all deliverables submitted to the EPA.

On behalf of the Purchaser, Verdantas uploads/submits data and reports to the EPA and Stakeholders via the Verdantas project SharePoint site:

- a. Perimeter Air monitoring Reports for weeks ending: May 4, 11, and 18.
- b. Raw perimeter air monitoring data for weeks ending: May 4, 11, and 18.
- c. Daily Field Reports from May 15-17, 20-24, 28-31 and June 3-7, 10-13.
- d. Meeting minutes from weekly Stakeholder meetings conducted on May 16, 23, 30 and June 6, 2024.



- 4. <u>A description of all activities all activities relating to the RA construction scheduled in the next six weeks.</u>
 - a. Continue fill import deliveries and fill placement.
 - b. Conduct excavation and backfill activities in the F-row decision units outside of the pipeline right of way, and decision in unit B-8.
 - c. Conduct air monitoring during ground disturbance work.
 - d. Continue finalizing the evaluation of remedial options in F row decision units within the pipeline right of way due to the utility's extreme requirements and significant risks associated with attempting work in this area.
- 5. An updated RA schedule, together with information regarding percentage of completion delays encountered or anticipated that may affect the future schedule for implementation of the RA, and description of efforts made to mitigate those delays or anticipated delays.

The estimated Remedy Implementation Schedule is included in Attachment A.

- 6. A description of any modifications to the work plans or other schedules that Purchaser has proposed or have been approved by the EPA.

 None noted.
- 7. A description of activities undertaken in support of the Community Improvement Plan (CIP) during the reporting period and those to be undertaken in the next six weeks.

No activities to support the CIP have occurred since the effective date.

If you have any questions or need further information, please call Dave Mustafaga (614) 362-7010.

Sincerely,

VERDANTAS LLC

David B. Mustafaga, PG, CPG

Senior Consultant

Attachment A Estimated Work Plan/Remedial Design Schedule

cc: Steve Radel and Brett Hickman, IDA

Anne Viner, Corporate Law Partners, PLLC

Eric Wilburn, PE, Verdantas LLC

Table 1: Summary of Remedial Work Completed through June 14, 2024

											Table 1: Sumn	nary of Remedial v	Vork Completed thro	ugn June 14, 20	024										
									If initial					3rd											
							Initial		sample fails,					Resample				Survey Failed (if			Backfill			Survey Fails (if	
						Initial %	Confirmatory		repeat	% Stabilization	Second			Collection				survey fails			Placement	if material does	Survey Top of	survey fails add	
						Stabilization	Samples	Initial	stablilization,	Agent Added	Resample		% Stabilization	Date (enter			Survey Base,	excavate more			Material Meets	not meet firm	Backfill to	more material	
						1			-	"				, ,			-						I		
						Agent Added	Collected	Confirmatory	recollect	2nd Treatment	Collection Date	e Second	Agent Added 3rd	Date			Confirm 1'	material and re-	Install		Spec - Firm	and unyielding	assure 1'	and re-survey,	
		Gravel De	emolition	Cleared and	DU Stabilized	(enter %	(enter Date	Analytical Pass	confirmatory	(enter %	(enter Date	Resample Pass	Treatment (enter %	mm/dd/202	3rd Resample	Excavate 1'	removed =	survey, repeat if	Demarcation		Unyielding	condition,	Material	repeat if	Area Seeded and
Grid II	Туре	Removal Co	ompleted	Grubbed	with Reagent	reagent)	mm/dd/2024)	or Fail	samples	reagent added)	mm/dd/2024)	or Fail	reagent added)	4)	Pass or Fail	across DU	Pass	necessary)	Barrier	Place 1' backfill	Subgrade	recompact	Placed	necessary)	Mulched per spec
A8	Excavation and Stabilizati	n Complete Not	t Applicable	Complete	Complete	2	12/6/2023	Fail	Complete	2	12/18/2023	Pass	0		Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess	Started/In progess				Not Applicable
Δ9	Excavation and Stabilizati	Complete Not	t Applicable	Complete	Complete	2	12/5/2023	Pass	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Complete	Complete		Complete		Not Applicable
D2	Excavation and Stabilizati		Applicable	Complete	Complete	3	2/21/2024	Pass	Not Applicable	Not applicable	Not applicable	 	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess	Complete		Complete		Not Applicable
D.4		_									- ''					<u> </u>		- ''		, ,					
B4	Excavation and Stabilizati		Applicable	Complete	Complete	3	2/22/2024	Pass	Not Applicable	Not applicable	NA	Not Applicable	Not applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess					Not Applicable
B5	Excavation and Stabilizati		t Applicable	Complete	Complete	3	2/27/2024	Fail	Complete	1	3/6/2024	Fail	1		Pass	Complete	Pass	Not Applicable	Complete	Started/In progess					Not Applicable
B6	Excavation and Stabilizati	n Complete Not	t Applicable	Complete	Complete	4	2/27/2024	Pass	Not Applicable	Not Applicable	NA	Not Applicable	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess					Not Applicable
B7	Excavation and Stabilizati	n Complete Not	t Applicable	Complete	Complete	3.4	3/11/2024	Pass	Not Applicable	Not applicable	NA	Not Applicable	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Not Started					Not Applicable
B9	Excavation and Stabilizati	n Complete Not	t Applicable	Complete	Complete	2	12/1/2023	Fail	Complete	1	12/8/2023	Pass	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Complete			Complete		Not Applicable
C2	Excavation and Stabilizati	n Complete Co	Complete	Complete	Complete	2	12/8/2023	Fail	Complete	2	1/8/2024	Pass	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Complete			Complete		Not Applicable
C4	Excavation and Stabilizati	Complete Not	t Applicable	Complete	Complete	3	2/14/2024	Fail	Complete	1	2/21/2024	Fail	1	2/28/2024	Pass	Complete	Pass	Not Applicable	Complete	Started/In progess					Not Applicable
C5	Excavation and Stabilizati	_	Applicable	Complete	Complete	3	2/16/2024	Pass	Not Applicable	Not applicable	NA	Not Applicable	Not applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess					Not Applicable
CG	Excavation and Stabilizati	·	t Applicable	Complete	Complete	3	2/16/2024	Pass	Not Applicable	Not applicable	NA NA	Not Applicable	Not applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess					Not Applicable
C7						3										· ·									
00	Excavation and Stabilizati		Applicable	Complete	Complete		2/20/2024	Pass		Not applicable	NA Natarakian	Not Applicable	Not Applicable		Not applicable	Complete	Pass	Not Applicable	Complete	Not Started			0		Not Applicable
C8	Excavation and Stabilizati		Applicable	Complete	Complete	2.5	2/7/2024	Pass	Not Applicable	Not applicable	Not applicable	 	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess			Complete		Not Applicable
D1	Excavation and Stabilizati	n Not Applicable Co	Complete	Complete	Complete	2	12/8/2023	Pass	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Complete			Complete		Not Applicable
D4	Excavation and Stabilizati	n Complete Not	t Applicable	Complete	Complete	2	12/13/2023	Fail	Complete	2	12/21/2023	Pass	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess			Complete		Not Applicable
D8	Excavation and Stabilizati	n Complete Not	t Applicable	Complete	Complete	2	12/15/2023	Pass	Not Applicable	Not applicable	Not applicable	Not Applicable	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess			Complete		Not Applicable
E2	Excavation and Stabilizati	n Complete Co	Complete	Complete	Complete	2	12/12/2023	Pass	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess					Not Applicable
E3	Excavation and Stabilizati	Complete Not	t Applicable	Complete	Complete	2	12/13/2023	Pass	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess					Not Applicable
F4	Excavation and Stabilizati	Complete Not	t Applicable	Complete	Complete	4	2/8/2024	Pass	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess					Not Applicable
F5	Excavation and Stabilizati		Applicable	Complete	Complete	3	2/9/2024	Fail	Complete	0.5	2/19/2024	Fail	0.5	2/27/2024	Pass	Complete	Pass	Not Applicable	Complete	Started/In progess					Not Applicable
EQ Fact	Excavation and Stabilizati	·	t Applicable	Complete	Complete	4.5	4/9/2024	Pass	Not Applicable	Not applicable	Not Applicable		Not Applicable	2/2//2024	Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess					Not Applicable
D4.04	Excavation and Stabilizati	_								- ''	- ''	+ ''				Complete	Fass		Complete		Not Applicable	Nat Assissable			
BICI				Not Applicable	Complete	2.5	2/15/2024	Pass	Not Applicable	Not Applicable	Not Applicable		Not Applicable		Not Applicable		_	Not Applicable		Not Applicable	Not Applicable	Not Applicable			Not Applicable
E9-West	Excavation and Stabilizati		t Applicable	Complete	Complete	5	3/5/2024	Pass		Not applicable	Not Applicable	 	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Initiated	Started/In progess					Not Applicable
A4	Excavation no Stabilizatio	Complete Not	t Applicable	Complete	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess					Not Started
A5	Excavation no Stabilizatio	Complete Not	t Applicable	Complete	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess					Not Started
A6	Excavation no Stabilization	Complete Not	t Applicable	Complete	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Not Started					Not Started
A7	Excavation no Stabilizatio	Complete Not	t Applicable	Complete	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Complete	Pass	Complete	Complete	Not Started					Not Started
B8	Excavation no Stabilizatio	Complete Not	t Applicable	Complete	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Not Started	Not Started		Not Started	Not Started					Not Started
C9	Excavation no Stabilization	Complete Not	t Applicable	Complete	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess			Complete		Not Started
D2	Excavation no Stabilizatio	Complete Co	Complete	Complete	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Complete			Complete		Not Started
D3	Excavation no Stabilizatio		Applicable	Complete	Not Applicable		Not Applicable	Not Applicable	Not Applicable		Not Applicable	+ ''	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Complete			Complete		Not Started
D5	Excavation no Stabilizatio		t Applicable	Complete	Not Applicable		Not Applicable			Not Applicable	- "	+ ''	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Not Started			Complete		Not Started
DG																	Pass		Not Started						
D0	Excavation no Stabilizatio		Applicable	Complete	Not Applicable		Not Applicable	- ''		Not Applicable	- ''	+ ''	Not Applicable		Not Applicable	Complete		Not Applicable		Not Started					Not Started
D/	Excavation no Stabilizatio		Applicable	Complete	Not Applicable		Not Applicable		Not Applicable				Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Not Started	Not Started					Not Started
D9	Excavation no Stabilizatio		t Applicable	Complete	Not Applicable		Not Applicable	Not Applicable	Not Applicable		Not Applicable		Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Partial	Started/In progess			Complete		Not Started
E1	Excavation no Stabilization	Not Applicable Co	Complete	Complete	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess					Not Started
E8	Excavation no Stabilizatio	Complete Not	t Applicable	Complete	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Complete	Pass	Not Applicable	Complete	Started/In progess			Complete		Not Started
F1	Excavation no Stabilization	Not Applicable Not	t Applicable	Complete	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Not Started	Not Started		Not Started	Not Started					Not Started
F2	Excavation no Stabilization		t Applicable	Complete	Not Applicable		Not Applicable			Not Applicable	Not Applicable		Not Applicable		Not Applicable	Not Started	Not Started		Not Started	Not Started					Not Started
F3	Excavation no Stabilization	- ''	Applicable	Complete	Not Applicable		Not Applicable	- ''		Not Applicable			Not Applicable		Not Applicable	Not Started	Not Started		Not Started	Not Started					Not Started
F4	Excavation no Stabilization		t Applicable	Complete	Not Applicable		Not Applicable		Not Applicable				Not Applicable		Not Applicable	Not Started	Not Started		Not Started	Not Started					Not Started
EQ	Excavation no Stabilizatio			Not Applicable	Not Applicable		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Not Started	Not Started		Not Started	Not Started					Not Started
EO	Excavation no Stabilization				- ''		- ''	- ''			- "	+ ''		 											Not Started
F9	Executation no otabilization			Not Applicable	Not Applicable		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	+ ''	Not Applicable		Not Applicable	Not Started	Not Started	N	Not Started	Not Started	N	A1.1 A		N	
A1	No Excavation	Not Applicable Not	Applicable	NOT Applicable	Not Applicable	NOT Applicable	NOT Applicable	Not Applicable	NOT Applicable	NOT Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Not Applicable	- ''	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Not Applicable
A2	No Excavation	Not Applicable Not	t Applicable 1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable				
A3	No Excavation	Not Applicable Not	t Applicable 1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable				
B1	No Excavation	Not Applicable Not	Applicable 1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable				
B2	No Excavation	Not Applicable Not	Applicable 1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable				
C1	No Excavation	Not Applicable Not	Applicable 1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable						Not Applicable					Not Applicable					
F6	No Excavation	Not Applicable Not													Not Applicable			Not Applicable		Not Applicable	Not Applicable	Not Applicable		Not Applicable	Not Applicable
F0	No Excavation	Not Applicable Not													Not Applicable			Not Applicable		Not Applicable	Not Applicable	Not Applicable		Not Applicable	Not Applicable
F5	No Excavation	Not Applicable Not					- ' '	Not Applicable				 			Not Applicable			Not Applicable		Not Applicable	Not Applicable	Not Applicable		Not Applicable	Not Applicable
FG FG						- ''																		- ''	
F6	No Excavation	Not Applicable Not					- ''	Not Applicable		- ' '	- "				Not Applicable			Not Applicable		Not Applicable	Not Applicable	Not Applicable			Not Applicable
F/	No Excavation	Not Applicable Not			- ''			Not Applicable		Not Applicable	- ''					Not Applicable	- ''	Not Applicable		Not Applicable	Not Applicable	Not Applicable		Not Applicable	Not Applicable
C3	No Excavation - TCLP		t Applicable	Complete	Complete	2.5	2/6/2024	Fail	Complete	1	2/14/2024	Fail	0.5	2/21/2024		Not Applicable		Not Applicable		Not Applicable	Not Applicable	Not Applicable		Not Applicable	Not Started
E7	No Excavation - TCLP	Complete Not	t Applicable	Complete	Complete	2.5	3/4/2024	Pass	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Complete	Not Applicable	Not Started



ATTACHMENT A

ESTIMATED REMEDIAL IMPLEMENTATION SCHEDULE

