

## **Field & Technical Services**

200 Third Avenue + Carnegie, PA 15106 + Phone: 412-429-2694 + Fax: 412-279-4512

December 1, 2020

Mr. John Sager Wisconsin Department of Natural Resources 1701 North Fourth Street Superior, WI 54880 Telephone #715-392-7822

**RE:** Former Koppers Inc. Facility, Superior Wisconsin

**WDNR DNR BRRTs No: 0216000484** 

**WDNR Facility ID: 816009810** 

Subject: 2020 On-Property Corrective Measures Monitoring & Maintenance Report

Dear Mr. Sager:

Field and Technical Services LLC (FTS), on behalf of Beazer East, Inc. (Beazer), and in accordance with the Operation and Maintenance Plan, On-Property Corrective Measures (O&M Plan; Arcadis, revised September 2011), is submitting this On-Property Corrective Measures Annual Monitoring & Maintenance Report for 2020, for the Former Koppers Inc. Facility in Superior, Wisconsin (the Site). This report documents the monitoring and maintenance activities conducted during 2020 for the completed on-property corrective measures (i.e., surface covers and Outfall 001 drainage ditch liner system; Figure 1).

The 2020 monitoring activities included the following:

- Monitoring the two collection sumps beneath the restored Outfall 001 drainage ditch for the presence of dense, non-aqueous phase liquid (DNAPL; performed on October 7, 2020); and
- Visually inspecting the surface covers and Outfall 001 drainage ditch liner system (performed on October 7, 2020).

Table 1 summarizes the DNAPL collection sump monitoring results. As indicated in Table 1, DNAPL has not been detected in either of the collection sumps to date.

The October 7, 2020 inspection observations and photographs are presented in a Site Inspection Form in Attachment 1. No major issues were observed in Areas A, B, F1, F2, G, H, or S or at Outfall 001 drainage ditch during the October 2020 inspection.

If you have questions regarding this submittal or require additional information, please call me at (412) 429-2694 or Jane Patarcity of Beazer at (412) 208-8813.

Sincerely,

**Field and Technical Services** 

angela M Satalue

Angela Gatchie

Project Manager

Attachments

cc: Jane Patarcity, Beazer

Linda Paul, Koppers

David Bessingpas, Arcadis

Terry Peterson, TRP



# **TABLE**



Table 1 Summary of Outfall 001 Drainage Ditch Sump DNAPL Monitoring/Removal Data <sup>1</sup> Former Koppers Inc. Facility - Superior, WI

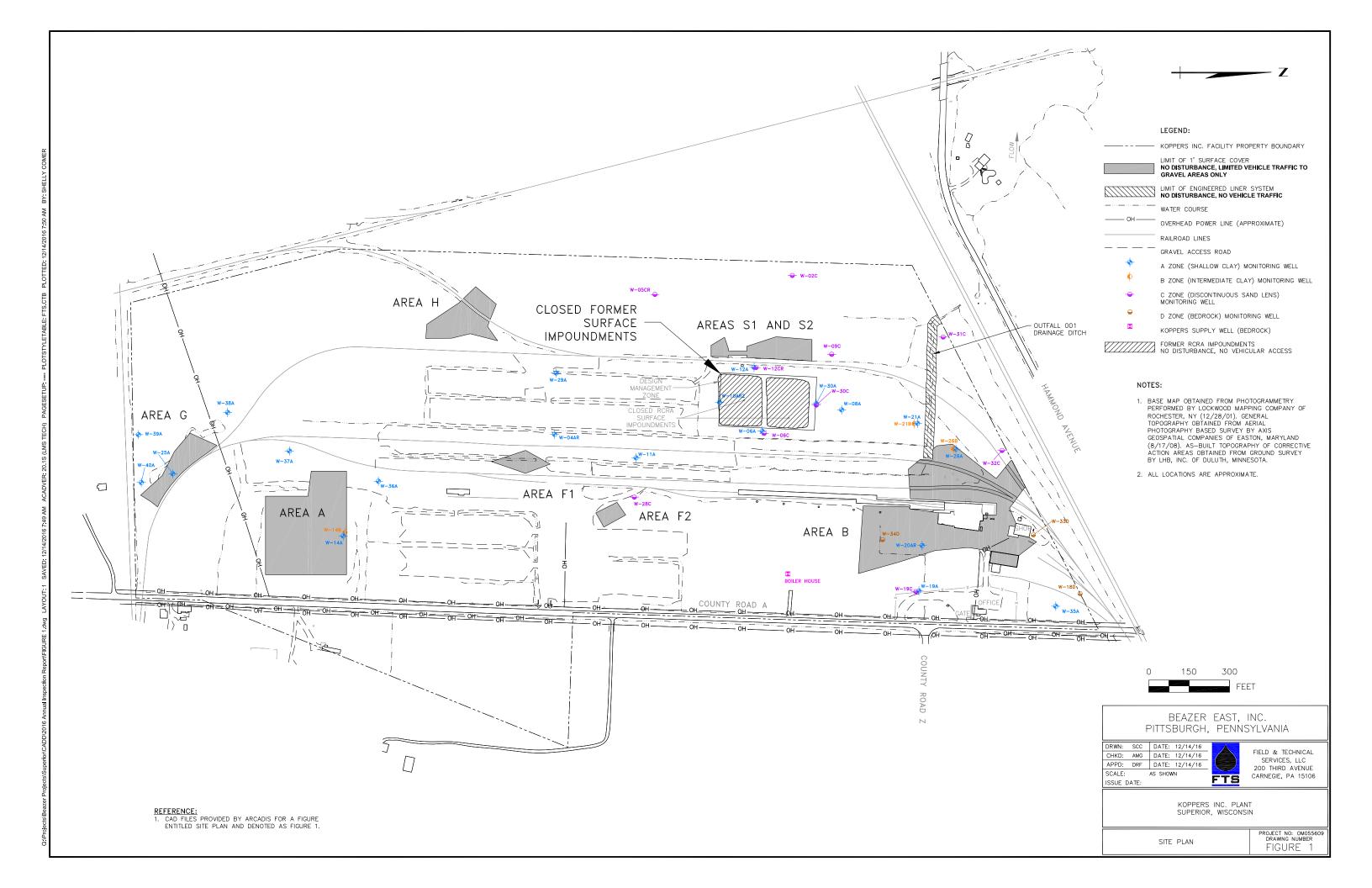
Date	Depth to Water (ft)	Depth to DNAPL (ft)	Depth to Sump Bottom (ft)	DNAPL Thickness (ft)	DNAPL Volume Removed (gal)	Notes/Comments
East Sump						
1/31/11	11.65		20.76			No DNAPL detected with interface probe or visible on PVC
2/25/11	10.01		20.78			No DNAPL detected with interface probe or visible on PVC; silt on PVC
3/28/11						
4/12/11	12.55		20.82			No DNAPL detected with interface probe or visible on PVC; silt on probe tip
5/19/11	12.80		20.78			No DNAPL detected with interface probe or visible on PVC; silt on probe tip
6/30/11	12.96		20.79			No DNAPL detected with interface probe or visible on PVC; silt on probe tip
9/9/11	13.11		20.79			No DNAPL detected with interface probe or visible on PVC; silt on probe tip
10/21/11	13.20		20.85			No DNAPL detected with interface probe or visible on PVC
6/26/12	13.03		21.85 <sup>2</sup>			No DNAPL detected with interface probe or visible on PVC
9/25/12	13.47		20.83			No DNAPL detected with interface probe or visible on PVC; silt on probe tip
5/1/13	Not measured - i	ce present at 13.	25 feet below top	of riser pipe		
8/21/13	13.40		20.83			No DNAPL detected with interface probe or visible on PVC
6/26/14	13.49		20.84			No DNAPL detected with interface probe or visible on PVC; silt on probe tip
7/16/15	13.10		20.90			No DNAPL detected with interface probe or visible on PVC; silt on probe tip
12/06/16	12.46		20.82			No DNAPL detected with interface probe or visible on PVC; silt on probe tip
10/05/17	11.95		20.20			No DNAPL detected with interface probe or visible on PVC; silt on probe tip
10/03/18	13.11		20.76			No DNAPL detected with interface probe or visible on PVC; silt on probe tip
10/16/19	12.20		20.76			No DNAPL detected with interface probe or visible on PVC
10/07/20	13.58		20.15			No DNAPL detected with interface probe or visible on PVC
West Sump						
1/31/11	10.20		20.90			No DNAPL detected with interface probe or visible on PVC
2/25/11	Not measured - ice present at 10.05 feet below top of riser pipe					
3/28/11	Not measured - ice present at 9.50 feet below top of riser pipe					
4/12/11	Not measured - ice present at 10.00 feet below top of riser pipe			of riser pipe		
5/19/11	10.62		20.89			No DNAPL detected with interface probe or visible on PVC
6/30/11	10.75		21.54 <sup>2</sup>			No DNAPL detected with interface probe or visible on PVC
9/9/11	11.05		21.54 <sup>2</sup>			No DNAPL detected with interface probe or visible on PVC
10/21/11	11.07		20.93			No DNAPL detected with interface probe or visible on PVC
6/26/12	10.84		20.90			No DNAPL detected with interface probe or visible on PVC
9/25/12	11.54		20.92			No DNAPL detected with interface probe or visible on PVC
5/1/13	10.23		20.91			No DNAPL detected with interface probe or visible on PVC
8/21/13	11.59		20.85			No DNAPL detected with interface probe or visible on PVC
6/26/14	11.07		20.92			No DNAPL detected with interface probe or visible on PVC
7/16/15	11.21		20.94			No DNAPL detected with interface probe or visible on PVC
12/06/16	11.22		20.88			No DNAPL detected with interface probe or visible on PVC
10/05/17	10.48		20.00			No DNAPL detected with interface probe or visible on PVC
10/03/18	11.89		21.62			No DNAPL detected with interface probe or visible on PVC
10/16/19	11.10		20.95			No DNAPL detected with interface probe or visible on PVC
10/07/20	12.63		20.52			No DNAPL detected with interface probe or visible on PVC

#### Notes:

- Measurements obtained using an oil/water interface probe affixed to 3/4-inch PVC pipe.
   Probe advanced into horizontal portion of pipe.

# **FIGURE**





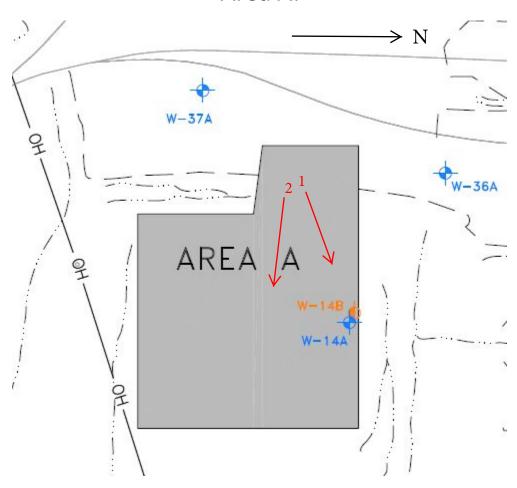
# **ATTACHMENT 1**



Site Inspection – 10/14/20

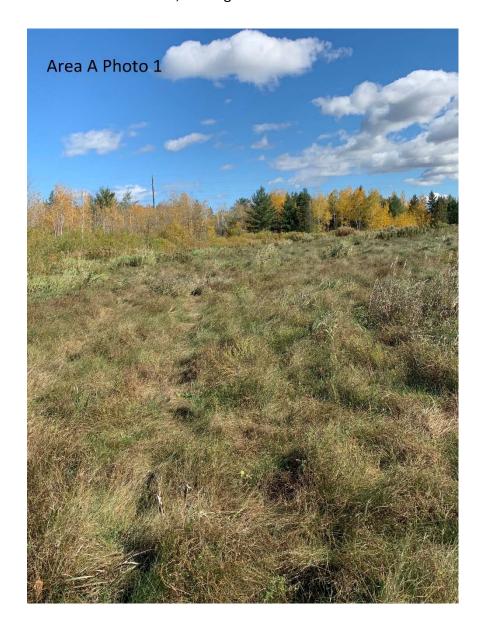
# Former Koppers Inc. Facility – Superior, WI By Field & Technical Services

# Area A:



## **Photographs:**

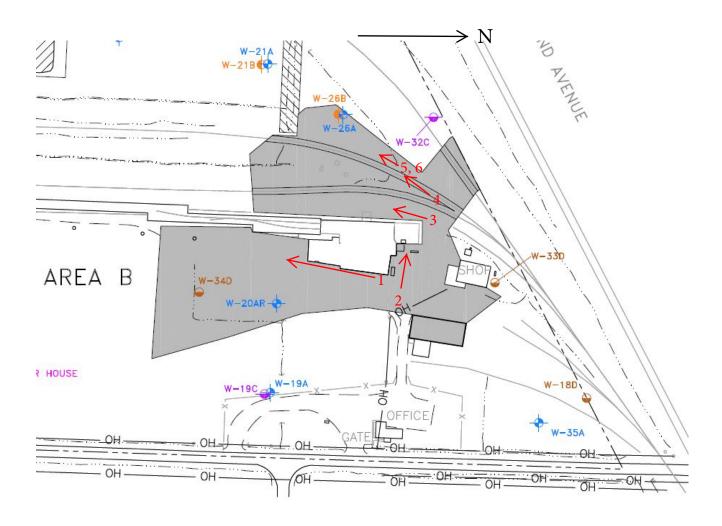
Area A Photo 1, looking Northeast from West side:

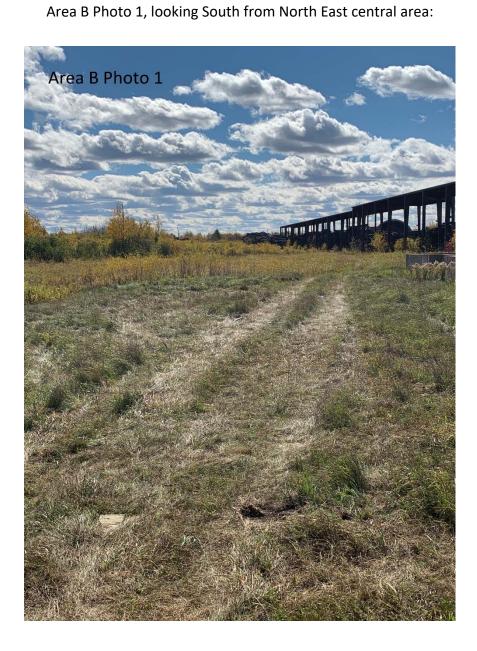


### Area A Photo 2, looking East from West side:



# Area B:



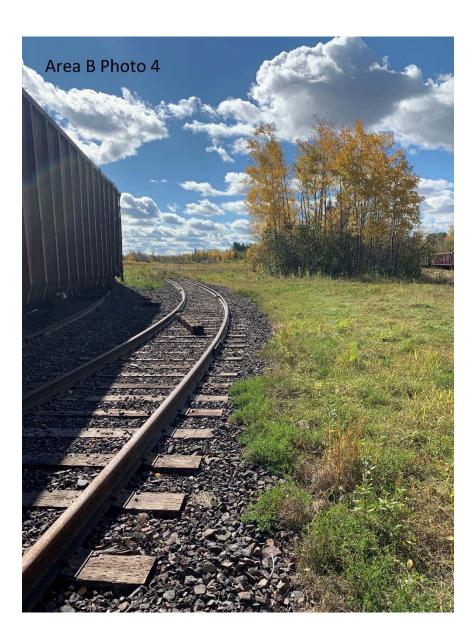


Area B Photo 2, looking West from Eastern edge:

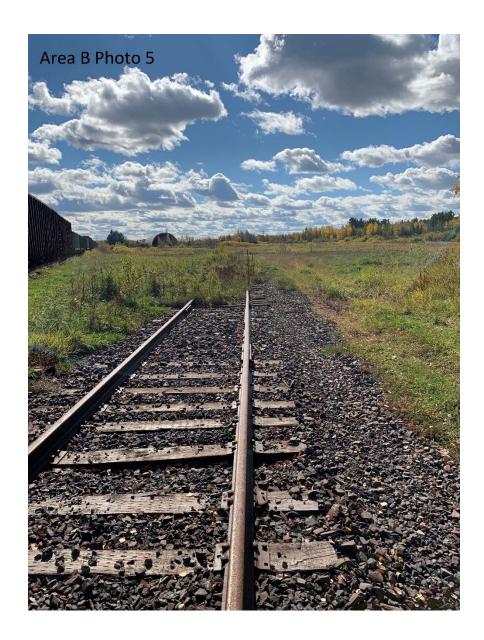




Area B Photo 4, looking South from North West:

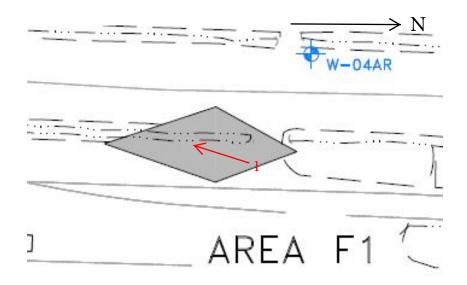


### Area B Photo 5, Close up of photo 4:

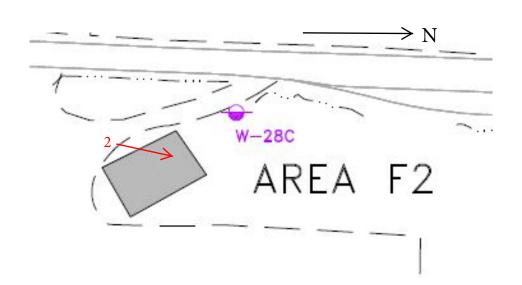


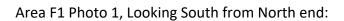


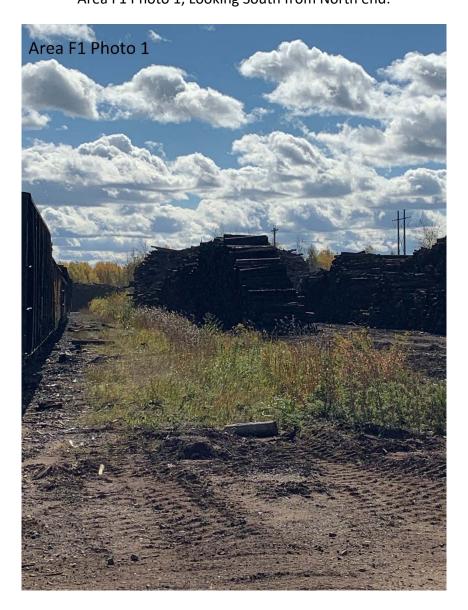
## Area F1:



## Area F2:

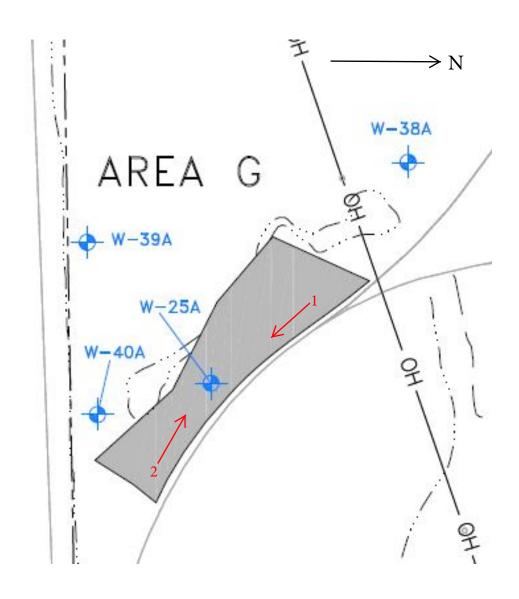








Area G:

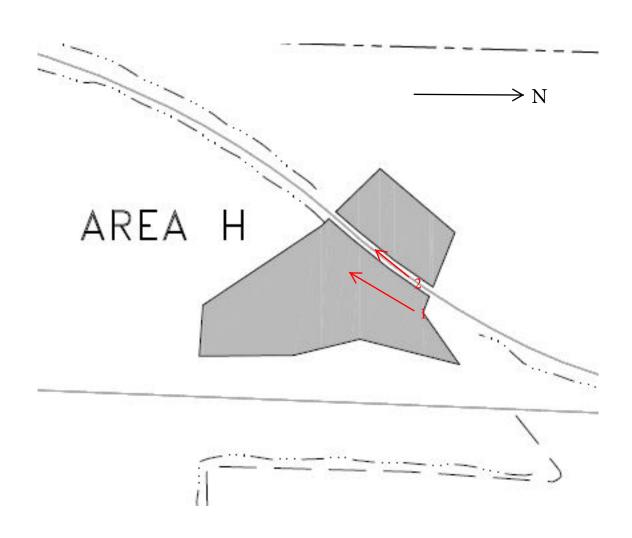


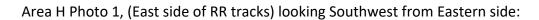


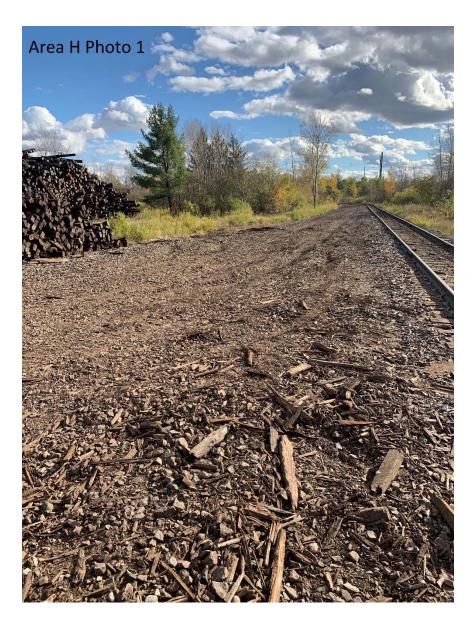


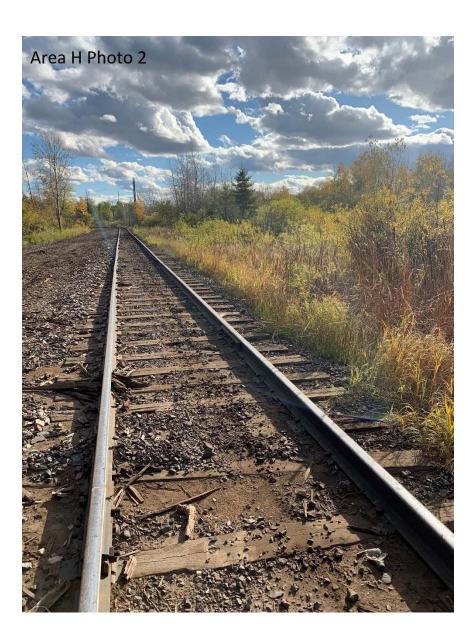


# Area H:

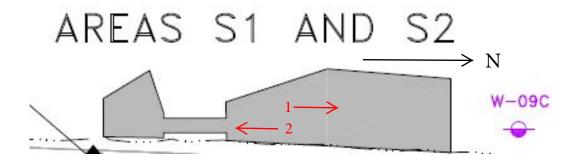








## Area S1 and S2:



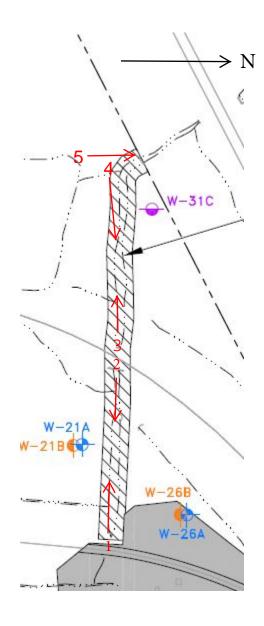
### Area S Photo 1, looking North from center of area:



Area S Photo 2, looking South from center of area:

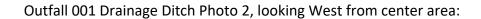


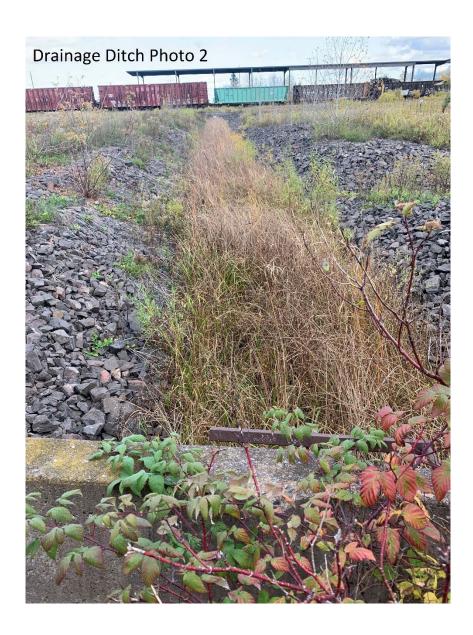
# Outfall 001 and Drainage Ditch:

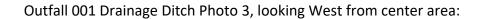


Outfall 001 Drainage Ditch Photo 1, looking West from Eastern edge:



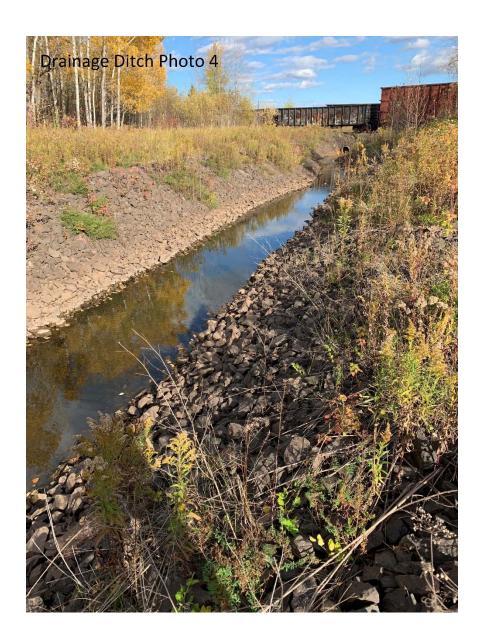








Outfall 001 Drainage Ditch Photo 4, looking East from Western edge:



Outfall 001 Drainage Ditch Photo 5, looking North from Southern edge of ditch:



# Post Construction Site Inspection Form Beazer East, Inc.

#### Koppers Inc. Facility, Superior, Wisconsin

Inspection Dat	e: 10	14/20			
Weather Cond	litions:	60's, sunny			
Inspector Nam	ne and Or	ganization: <u>Kai</u>	Hyn Mc	Mullen	FT6
Inspector Sign	ature:	Kaiten 1	nº Mu	1	
Area A					
		(check one)	No	Yes	If yes, provide description and take photos
Excessive ero	osion		X		
Evidence of e	excessive	settling or	X		
Areas lacking vegetation	well-esta	blished	X		
Action Items:	NIA				
rnotograpns.	Dhete:	2 . 1	oking r	- (	m west side of area
	Photo: _	·			
Area B					
		(check one)	No	Yes	If yes, provide description and take photos
Excessive ero	sion		X		
Evidence of excessive settling or ponding				X	0
Areas lacking vegetation	well-estal	olished	X		
Action Items:					
Photographs:	Photo:	1 ; Look	ana 6	Fram	north east central area
g. aprior			king W	0	eastern edge
		1 .	cina 5	_	north central section
	Photo:	13 3 6	J		north west
	Photo:		)		ant depressions

#### Area F-1

(check one)	No	Yes	If yes, provide description and take photos
Excessive erosion	X		
Evidence of excessive settling or ponding	X		
Areas lacking well-established vegetation	X		

Areas lacking vegetation	well-establ	ished	X		
Action Items:	NA				
Photographs:	Photo:	1 ; Look	ing 5	from No	orth edge on E side of tracks
	Photo:	;			
	Photo:				
	Photo:	;;			
	Photo:	·			
Area F-2					
		(check one)	No	Yes	If yes, provide description and take photos
Excessive ero	sion		X		
Evidence of excessive settling or ponding			X		
Areas lacking vegetation	well-establi	shed	X		
Action Items: _	NA				
Photographs:	Photo:	1 ; Loc	oking 1	JE from	n 5W area
	Photo:	·			
	Photo:	;;			

### Area G

(check one)	No	Yes	If yes, provide description and take photos
Excessive erosion	X		
Evidence of excessive settling or ponding	X		
Areas lacking well-established vegetation	χ		

vegetation	well-establ	isnea	X		
Action Items:	NA				
Photographs:	Photo:	2 ; L	.cokmg	NW F	rom North West rom South East
	Photo:	;			¥
Area H					
		(check one)	No	Yes	If yes, provide description and take photos
Excessive ero	sion		X		
Evidence of exponding			X		
Areas lacking vegetation	well-establis	shed	X		
Action Items:	NA				
Photographs:					om Eastern side
	Photo:	2 ; Lo	oking	5W fro	om Western side
		;			
	Photo:				

#### Areas S-1 and S-2

(check one)	No	Yes	If yes, provide description and take photos
Excessive erosion	X		
Evidence of excessive settling or ponding	X		
Areas lacking well-established vegetation	Х		"

well-estab		X		,	
NA					
Photo: Photo: Photo: Photo:	2 ; Lo	oking	5 from	center of area	
· ·		No			_
sion	(спеск опе)	No	Yes	If yes, provide description and take photos	
		X			
xcessive se	ettling or	X			
well-establ	ished	. · · X			
NA		-			
Photo:	1 ; Lo	oking	W from	Eastern edge	
Photo:	3 ; Lo	oking k	1 from	center of area	
	10	1. 7	0	The second second	
Photo:	4 6	oking t	- trom	Western edge	
	Photo: Photo: Photo: Photo: Photo: Photo: Photo: Sion Cessive set Well-establ Photo: Photo: Photo: Photo: Photo: Photo: Photo: Photo:	Photo: 2 ;	Photo: 1 ; Looking Photo: 2 ; Looking Photo: ; Photo: X    Check one   No	Photo: 1 ; Looking N from Photo: 2 ; Looking 5 from Photo: ; Photo: ; Photo: ; Photo: ; Photo: ; Photo:   (check one) No Yes sion   X   xcessive settling or   X   well-established   X   Photo: 1 ; Looking W from Photo: 2 ; Looking W from Photo: 3 ; Looking W from	Photo: 1 ; Looking N from center of area  Photo: 2 ; Looking 5 from center of area  Photo:;  Photo:;  Photo:;  Prom center of area  Photo:;  Photo:;  Prom center of area  If yes, provide description and take photos  sion  x  x  well-established  X