

Table 1P
Mass of Chemicals Placed in CAMU Unit 2
East Side Groundwater ISM Compliance Monitoring - Third Quarter 2017
U.S. Steel - Gary Works
Gary, Indiana

Parameter	Location ID	EL-MW-23D	EL-MW-23S	EL-MW-23S	EL-MW-29D	EL-MW-29S	EL-MW-32D	EL-MW-32S	EL-MW-41D	EL-MW-41S	EL-MW-42D	EL-MW-42S	EL-MW-42S	EL-MW-43D	EL-MW-43S	EL-MW-44D	EL-MW-44S	EL-MW-45D	EL-MW-45S	EL-MW-46D	EL-MW-46S	
	Sample Type	Regular	Regular	Duplicate	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Duplicate	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	
	Sample Date	8/25/2017	8/25/2017	8/25/2017	8/28/2017	8/28/2017	8/25/2017	8/25/2017	8/28/2017	8/28/2017	8/28/2017	8/28/2017	8/28/2017	8/30/2017	8/30/2017	8/28/2017	8/28/2017	8/30/2017	8/30/2017	8/30/2017	8/30/2017	
	Units																					
Volatile Organic Compounds (VOCs)																						
1,1,1,2-Tetrachloroethane	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
1,1,1-Trichloroethane	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
1,1,2,2-Tetrachloroethane	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
1,1,2-Trichloroethane	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
1,1-Dichloroethane	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
1,1-Dichloroethene	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
1,2,3-Trichloropropane	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
1,2-Dibromo-3-Chloropropane	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
1,2-Dibromoethane	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
1,2-Dichloroethane	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
1,2-Dichloroethene	ug/l	2000.00	20.00	20.00	2.00	2.00	1.00	20.00	1.00	1.00	1.00	5.00	5.00	5.00	2.00	5.00	5.00	1000.00	1.00	1.00	1.00	
1,2-Dichloropropane	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
1,3-Dichloropropene, Total	ug/l	2000.00	20.00	20.00	2.00	2.00	1.00	20.00	1.00	1.00	1.00	5.00	5.00	5.00	2.00	5.00	5.00	1000.00	1.00	1.00	1.00	
2-Butanone	ug/l	5000.00	50.00	50.00	5.00	5.00	2.50	50.00	2.50	2.50	2.50	12.50	12.50	12.50	5.00	12.50	12.50	2500.00	2.50	2.50	2.50	
2-Hexanone	ug/l	5000.00	50.00	50.00	5.00	5.00	2.50	50.00	2.50	2.50	2.50	12.50	12.50	12.50	5.00	12.50	12.50	2500.00	2.50	2.50	2.50	
3-Chloro-1-propene	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
4-Methyl-2-pentanone	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
Acetone	ug/l	10000.00	100.00	100.00	10.00	10.00	5.00	100.00	5.00	5.00	5.00	25.00	25.00	25.00	10.00	25.00	25.00	5000.00	5.00	5.00	5.00	
Acetonitrile	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
Acrolein	ug/l	20000.00	200.00	200.00	20.00	20.00	10.00	200.00	10.00	10.00	10.00	50.00	50.00	50.00	20.00	50.00	50.00	10000.00	10.00	10.00	10.00	
Acrylonitrile	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
Benzene	ug/l	870000.00	8500.00	8800.00	4100.00	780.00	0.91	6400.00	170.00	430.00	250.00	1000.00	1000.00	510.00	500.00	3200.00	1300.00	300000.00	50.00	39.00	0.50	
Bromodichloromethane	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
Bromoform	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
Bromomethane	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
Carbon disulfide	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
Carbon tetrachloride	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
Chlorobenzene	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
Chloroethane	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
Chloroform	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
Chloromethane	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
Chloroprene	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
cis-1,2-Dichloroethene	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
cis-1,3-Dichloropropene	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
Dibromochloromethane	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50	10.00	0.50	0.50	0.50	2.50	2.50	2.50	1.00	2.50	2.50	500.00	0.50	0.50	0.50	
Dibromomethane	ug/l	1000.00	10.00	10.00	1.00	1.00	0.50</															

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	Sample Type	Regular	Regular	Duplicate	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Duplicate	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular
	Sample Date	8/25/2017	8/25/2017	8/25/2017	8/28/2017	8/28/2017	8/25/2017	8/25/2017	8/28/2017	8/28/2017	8/28/2017	8/28/2017	8/28/2017	8/30/2017	8/30/2017	8/28/2017	8/28/2017	8/30/2017	8/30/2017	8/30/2017	8/30/2017
	Units																				
Semi-Volatile Organic Compounds (SVOCs)																					
1,2,4,5-Tetrachlorobenzene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
1,2,4-Trichlorobenzene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
1,2-Dichlorobenzene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
1,3,5-Trinitrobenzene	ug/l	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
1,3-Dichlorobenzene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
1,3-Dinitrobenzene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
1,4-Dichlorobenzene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
1,4-Dioxane	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
1,4-Naphthoquinone	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
1-Naphthylamine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
2,3,4,6-Tetrachlorophenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
2,4,5-Trichlorophenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
2,4,6-Trichlorophenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
2,4-Dichlorophenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
2,4-Dimethylphenol	ug/l	1.10	0.81	0.90	1.70	1.30	1.60	0.62	0.52	4.10	1.20	4.10	3.60	0.50	93.00	0.62	4.50	0.50	0.50	1.10	0.50
2,4-Dinitrophenol	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
2,4-Dinitrotoluene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
2,6-Dichlorophenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
2,6-Dinitrotoluene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
2-Acetylaminofluorene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
2-Chloronaphthalene	ug/l	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
2-Chlorophenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
2-Methylnaphthalene	ug/l	0.22	0.16	0.20	0.05	0.05	0.05	0.05	0.05	7.00	0.05	11.00	9.00	0.05	28.00	0.05	20.00	0.05	0.28	0.05	0.05
2-Methylphenol	ug/l	350.00	2.50	2.50	0.50	0.50	0.50	0.50	0.50	1.30	0.50	1.30	1.10	0.50	70.00	0.68	1.80	1.20	0.50	0.50	0.50
2-Naphthylamine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
2-Nitroaniline	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
2-Nitrophenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
2-Picoline	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	3.00	2.50	2.50	2.50	2.50	2.50	2.50
3,3'-Dichlorobenzidine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
3,3'-Dimethylbenzidine	ug/l	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
3-Methylcholanthrene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
3-Methylphenol & 4-Methylphenol	ug/l	69.00	0.50	0.83	0.51	0.50	1.10	0.50	0.50	2.90	0.89	3.20	2.80	0.50	220.00	0.50	4.00	0.50	0.50	0.50	0.50
3-Nitroaniline	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
4,6-Dinitro-2-methylphenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
4-Aminobiphenyl	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
4-Bromophenyl phenyl ether	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
4-Chloro-3-methylphenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
4-Chloroaniline	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50

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	Sample Date	8/25/2017	8/25/2017	8/25/2017	8/28/2017	8/28/2017	8/25/2017	8/25/2017	8/28/2017	8/28/2017	8/28/2017	8/28/2017	8/28/2017	8/30/2017	8/30/2017	8/28/2017	8/28/2017	8/30/2017	8/30/2017	8/30/2017	8/30/2017
	Units																				
Dibenzofuran	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	7.20	0.50	7.10	6.60	0.50	11.00	0.50	14.00	0.50	0.50	0.50	0.50
Diethyl phthalate	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Dimethyl phthalate	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Di-n-butyl phthalate	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Di-n-octyl phthalate	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Dinoseb	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Diphenylamine	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Ethyl methanesulfonate	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Hexachlorobenzene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Hexachlorobutadiene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Hexachlorocyclopentadiene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Hexachloroethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.75	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Hexachlorophene	ug/l	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Hexachloropropene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Isophorone	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Isosafrole	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Methapyrilene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Methyl methanesulfonate	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Nitrobenzene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
N-Nitrosodiethylamine	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
N-Nitrosodimethylamine	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
N-Nitrosodi-n-butylamine	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
N-Nitrosodi-n-propylamine	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
N-Nitrosodiphenylamine	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
N-Nitrosomethylethylamine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
N-Nitrosomorpholine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
N-Nitrosopiperidine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
N-Nitrosopyrrolidine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
o-Toluidine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
p-Dimethylaminoazobenzene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Pentachlorobenzene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Pentachloroethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Pentachloronitrobenzene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Pentachlorophenol	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Phenacetin	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Phenol	ug/l	280.00	8.60	4.10	6.60	11.00	0.50	9.70	0.50	2.40	1.90	2.20	1.90	2.20	29.00	3.50	2.60	22.00	1.00	0.64	0.50
p-Phenylene diamine	ug/l	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
Pronamide	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Pyridine	ug/l	5.00	5.																		

Table 1P
Mass of Chemicals Placed in CAMU Unit 2
East Side Groundwater ISM Compliance Monitoring - Third Quarter 2017
U.S. Steel - Gary Works
Gary, Indiana

Parameter	Location ID	EL-MW-23D	EL-MW-23S	EL-MW-23S	EL-MW-29D	EL-MW-29S	EL-MW-32D	EL-MW-32S	EL-MW-41D	EL-MW-41S	EL-MW-42D	EL-MW-42S	EL-MW-42S	EL-MW-43D	EL-MW-43S	EL-MW-44D	EL-MW-44S	EL-MW-45D	EL-MW-45S	EL-MW-46D	EL-MW-46S
	Sample Type	Regular	Regular	Duplicate	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Duplicate	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular
	Sample Date	8/25/2017	8/25/2017	8/25/2017	8/28/2017	8/28/2017	8/25/2017	8/25/2017	8/28/2017	8/28/2017	8/28/2017	8/28/2017	8/28/2017	8/30/2017	8/30/2017	8/28/2017	8/28/2017	8/30/2017	8/30/2017	8/30/2017	8/30/2017
	Units																				
Metals, Total																					
Aluminum	mg/l	0.1200	0.1100	0.1100	0.0670	0.7400	0.0770	0.0470	0.1800	0.9000	0.2100	0.5600	0.5600	0.1300	0.4000	0.1000	1.6000	0.1400	0.0980	0.0970	0.5500
Antimony	mg/l	0.0025	0.0039	0.0034	0.0025	0.0075	0.0025	0.0025	0.0024	0.0034	0.0022	0.0026	0.0025	0.0025	0.0025	0.0019	0.0048	0.0025	0.0025	0.0025	0.0025
Arsenic	mg/l	0.1000	0.0630	0.0630	0.0025	0.0022	0.1700	0.0025	0.0610	0.0025	0.0270	0.0025	0.0025	0.0066	0.0026	0.2000	0.0027	0.0330	0.0025	0.0340	0.0021
Barium	mg/l	0.3200	0.0350	0.0350	0.2500	0.0120	0.1200	0.1100	0.0530	0.0520	0.0930	0.0620	0.0630	0.0790	0.0250	0.0790	0.0600	0.3700	0.0440	0.0930	0.0160
Beryllium	mg/l	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0010	0.0010	0.0003	0.0003	0.0003	0.0003	0.0010	0.0010	0.0003	0.0003	0.0010	0.0010	0.0010
Cadmium	mg/l	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050
Calcium	mg/l	180.0000	84.0000	81.0000	270.0000	66.0000	340.0000	230.0000	580.0000	110.0000	400.0000	150.0000	150.0000	410.0000	39.0000	270.0000	110.0000	170.0000	150.0000	340.0000	86.0000
Chromium	mg/l	0.0023	0.0003	0.0004	0.0010	0.0009	0.0018	0.0430	0.0026	0.0004	0.0027	0.0018	0.0016	0.0021	0.0004	0.0020	0.0025	0.0025	0.0190	0.0014	0.0180
Chromium, Hexavalent	mg/l	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0360	0.0220	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0340	0.0180	0.0120	0.0160
Cobalt	mg/l	0.0025	0.0025	0.0025	0.0005	0.0025	0.0025	0.0025	0.0025	0.0025	0.0006	0.0025	0.0025	0.0022	0.0025	0.0025	0.0025	0.0025	0.0025	0.0010	0.0026
Copper	mg/l	0.0025	0.0021	0.0020	0.0048	0.0065	0.0024	0.0049	0.0035	0.0025	0.0029	0.0021	0.0025	0.0026	0.0017	0.0022	0.0018	0.0020	0.0065	0.0019	0.0023
Iron	mg/l	16.0000	0.0270	0.0240	4.0000	0.0400	16.0000	0.0400	31.0000	0.1100	18.0000	0.3300	0.2800	4.5000	0.3000	5.8000	0.1800	6.5000	0.0400	12.0000	0.0400
Lead	mg/l	0.0110	0.0084	0.0081	0.0140	0.0088	0.0078	0.0220	0.0034	0.0074	0.0061	0.0023	0.0022	0.0033	0.0110	0.0110	0.0058	0.0110	0.0180	0.0059	0.0076
Lithium	mg/l	0.0760	0.0390	0.0390	0.0330	0.0560	0.0220	0.0520	0.0200	0.1800	0.0200	0.1600	0.1700	0.0120	0.1400	0.0470	0.1300	0.0320	0.0280	0.0200	0.0092
Magnesium	mg/l	48.0000	0.1000	0.1000	120.0000	0.0380	130.0000	0.1000	240.0000	0.0840	170.0000	0.2900	0.2300	180.0000	0.2500	120.0000	0.0640	79.0000	0.1000	130.0000	0.1000
Manganese	mg/l	0.2200	0.0025	0.0025	0.0850	0.0017	0.2300	0.0025	0.4500	0.0061	0.4300	0.0290	0.0220	0.4500	0.0110	0.2800	0.0034	0.2800	0.0025	0.2500	0.0025
Mercury	mg/l	0.0001	0.0001	0.0001	0.0001	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Nickel	mg/l	0.0025	0.0024	0.0023	0.0025	0.0009	0.0025	0.0013	0.0027	0.0024	0.0025	0.0028	0.0028	0.0025	0.0025	0.0025	0.0023	0.0025	0.0025	0.0025	0.0025
Potassium	mg/l	8.3000	91.0000	89.0000	5.6000	110.0000	13.0000	84.0000	9.7000	96.0000	12.0000	100.0000	100.0000	17.0000	32.0000	5.8000	120.0000	4.8000	8.6000	7.2000	7.5000
Selenium	mg/l	0.0050	0.0050	0.0050	0.0050	0.0062	0.0050	0.0039	0.0050	0.0050	0.0050	0.0045	0.0036	0.0050	0.0050	0.0050	0.0049	0.0050	0.0035	0.0050	0.0040
Silver	mg/l	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Sodium	mg/l	140.0000	120.0000	120.0000	150.0000	95.0000	97.0000	69.0000	99.0000	100.0000	130.0000	110.0000	110.0000	110.0000	39.0000	210.0000	110.0000	140.0000	15.0000	100.0000	10.0000
Thallium	mg/l	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050
Tin	mg/l	0.0010	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0009	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0480	0.0050
Vanadium	mg/l	0.0030	0.0120	0.0120	0.0017	0.0840	0.0028	0.0020	0.0039	0.0160	0.0039	0.0056	0.0055	0.0023	0.0043	0.0023	0.0075	0.0029	0.0120	0.0024	0.1100
Zinc	mg/l	0.0150	0.0050	0.0050	0.0130	0.0029	0.0110	0.0078	0.0240	0.0100	0.0240	0.0087	0.0057	0.0480	0.0067	0.0047	0.0019	0.0290	0.0100	0.0230	0.0046
Metals, Dissolved																					
Chromium, Hexavalent	mg/l				0.003		0.003	0.036	0.003					0.003				0.003	0.018	0.003	0.016
Iron	mg/l													4.300	0.130			5.900	0.010	11.000	0.044
Manganese	mg/l													0.430	0.001			0.250	0.001	0.230	0.000
General Chemistry																					
Acid Insoluble Sulfide	mg/l													0.500	7.900			0.500	0.500	0.500	0.500
Alkalinity, bicarbonate, as CaCO3	mg/l													390.000	5.000			630.000	5.000	510.000	5.000
Alkalinity, carbonate, as CaCO3	mg/l													5.000	41.000			5.000	32.000	5.000	42.000
Alkalinity, Hydroxide (as CaCO3)	mg/l													5.000	38.000			5.000	160.000	5.000	100.000
Alkalinity, Phenolphthalein (as CaCO3)	mg/l													5.000	59.000			5.000	180.000	5.000	130.000
Alkalinity, Total as CaCO3	mg/l													390.000	79.000			630.000	190.000	510.000	150.000
Ammonia	mg/l	1.600	2.800	2.600	19.000	3.600	17.000	1.400	18.000	7.600	20.000	6.200	6.100	23.000	2.600	14.000	6.700	3.200	0.500	8.700	0.330
Cyanide, Reactive	mg/l	0.013	0.028	0.040	0.062	0.080	0.310	0.002	0.034	0.099	0.030	0.110	0.120	0.032	0.340	0.064	0.140	0.045	0.012	0.320	0.110
Inorganic Carbon, total	mg/l													24.000	0.130			35.000	0.250	21.000	0.250
Methane	µg/L													160.000	730.000			10000.000	2.500	200.000	2.500
Nitrate as N	mg/l													0.500	0.050			0.050	0.310	0.500	1.500
Nitrite as N	mg/l													0.500	0.050			0.050	0.970	0.500	0.310
Nitrogen	mg/l													1.000	0.100			0.100	1.300	1.000	1.900
Sulfate, dissolved	mg/l													1300.000	48.000			49.000	170.000	890.000	52.000
Total Carbon	mg/l													38.000	11.000			140.000	2.300	83.000	2.300
Total Organic Carbon	mg/l													14.000	11.000			110.000	2.300	62.000	2.300

Table 1P
Mass of Chemicals Placed in CAMU Unit 2
East Side Groundwater ISM Compliance Monitoring - Third Quarter 2017
U.S. Steel - Gary Works
Gary, Indiana

Parameter	Location ID	EL-MW-47D	EL-MW-47S	EL-MW-48D	EL-MW-48D	EL-MW-48S	EL-MW-49D	EL-MW-49S	EL-MW-50D	EL-MW-50S	EL-MW-51D	EL-MW-51S	EL-MW-SG375RD	EL-MW-SG375S	EL-MW-SG380RD	EL-MW-SG380RS	EL-MW-SG420D	EL-MW-SG420S	SP-6-T01
	Sample Type	Regular	Regular	Regular	Duplicate	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular
	Sample Date	8/30/2017	8/30/2017	8/29/2017	8/29/2017	8/29/2017	8/25/2017	8/25/2017	8/29/2017	8/29/2017	8/25/2017	8/25/2017	8/29/2017	8/29/2017	8/29/2017	8/29/2017	8/28/2017	8/28/2017	8/30/2017
	Units																		
Volatile Organic Compounds (VOCs)																			
1,1,1,2-Tetrachloroethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
1,1,1-Trichloroethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
1,1,2,2-Tetrachloroethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
1,1,2-Trichloroethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
1,1-Dichloroethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
1,1-Dichloroethene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
1,2,3-Trichloropropane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
1,2-Dibromo-3-Chloropropane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
1,2-Dibromoethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
1,2-Dichloroethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
1,2-Dichloroethene	ug/l	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	10.00	1.00	1.00	1.00	1.00	1.00	1.40	
1,2-Dichloropropane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
1,3-Dichloropropene, Total	ug/l	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	10.00	1.00	1.00	1.00	1.00	1.00	1.00	
2-Butanone	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	25.00	2.50	2.50	2.50	2.50	2.50	2.50	
2-Hexanone	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	25.00	2.50	2.50	2.50	2.50	2.50	2.50	
3-Chloro-1-propene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
4-Methyl-2-pentanone	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Acetone	ug/l	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	50.00	5.00	5.00	5.00	5.00	5.00	5.00	
Acetonitrile	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Acrolein	ug/l	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	100.00	10.00	10.00	10.00	10.00	10.00	10.00	
Acrylonitrile	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Benzene	ug/l	89.00	880.00	120.00	130.00	15.00	45.00	70.00	250.00	230.00	35.00	3900.00	1.20	0.64	0.50	20.00	0.50	420.00	39,000
Bromodichloromethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Bromoform	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Bromomethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Carbon disulfide	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	7.90	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Carbon tetrachloride	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Chlorobenzene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Chloroethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Chloroform	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Chloromethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Chloroprene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
cis-1,2-Dichloroethene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	1.40	
cis-1,3-Dichloropropene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Dibromochloromethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Dibromomethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Dichlorodifluoromethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Ethyl methacrylate	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Ethylbenzene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	50.00
Iodomethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Isobutanol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
m&p-Xylene	ug/l																		100.00
Methacrylonitrile	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Methyl methacrylate	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Methylene Chloride	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	25.00	2.50	2.50	2.50	2.50	2.50	2.50	
o-Xylene	ug/l																		50.00
Propionitrile	ug/l	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	50.00	5.00	5.00	5.00	5.00	5.00	5.00	
Styrene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Tetrachloroethene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Toluene	ug/l	0.50	1.10	1.10	1.00	0.50	0.50	0.50	1.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.52	190
trans-1,2-Dichloroethene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
trans-1,3-Dichloropropene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
trans-1,4-Dichloro-2-butene	ug/l	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	10.00	1.00	1.00	1.00	1.00	1.00	1.00	
Trichloroethene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Trichlorofluoromethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	0.50	
Vinyl acetate	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	25.00	2.50	2.50	2.50	2.50	2.50	2.50	
Vinyl chloride	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.00	0.50	0.50	0.50	0.50	0.50	3.30	
Xylenes (total)	ug/l	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	15.00	1.50	1.50	1.50	1.50	1.50	1.50	150.00

Table 1P
Mass of Chemicals Placed in CAMU Unit 2
East Side Groundwater ISM Compliance Monitoring - Third Quarter 2017
U.S. Steel - Gary Works
Gary, Indiana

Parameter	Location ID	EL-MW-47D	EL-MW-47S	EL-MW-48D	EL-MW-48D	EL-MW-48S	EL-MW-49D	EL-MW-49S	EL-MW-50D	EL-MW-50S	EL-MW-51D	EL-MW-51S	EL-MW-SG375RD	EL-MW-SG375S	EL-MW-SG380RD	EL-MW-SG380RS	EL-MW-SG420D	EL-MW-SG420S	SP-6-T01
	Sample Type	Regular	Regular	Regular	Duplicate	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular
	Sample Date	8/30/2017	8/30/2017	8/29/2017	8/29/2017	8/29/2017	8/25/2017	8/25/2017	8/29/2017	8/29/2017	8/25/2017	8/25/2017	8/29/2017	8/29/2017	8/29/2017	8/29/2017	8/28/2017	8/28/2017	8/30/2017
	Units																		
Semi-Volatile Organic Compounds (SVOCs)																			
1,2,4,5-Tetrachlorobenzene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
1,2,4-Trichlorobenzene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
1,2-Dichlorobenzene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
1,3,5-Trinitrobenzene	ug/l	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	
1,3-Dichlorobenzene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
1,3-Dinitrobenzene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
1,4-Dichlorobenzene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
1,4-Dioxane	ug/l	4.60	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
1,4-Naphthoquinone	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
1-Naphthylamine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
2,3,4,6-Tetrachlorophenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
2,4,5-Trichlorophenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
2,4,6-Trichlorophenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
2,4-Dichlorophenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
2,4-Dimethylphenol	ug/l	0.50	1.20	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.80	0.50	0.50	0.50	0.50	3.60	2.20	
2,4-Dinitrophenol	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
2,4-Dinitrotoluene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
2,6-Dichlorophenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
2,6-Dinitrotoluene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
2-Acetylaminofluorene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
2-Chloronaphthalene	ug/l	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
2-Chlorophenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
2-Methylnaphthalene	ug/l	0.05	0.15	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.13	0.05	0.05	0.05	0.05	0.05	0.38	
2-Methylphenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.51	1.10	
2-Naphthylamine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
2-Nitroaniline	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
2-Nitrophenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
2-Picoline	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
3,3'-Dichlorobenzidine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
3,3'-Dimethylbenzidine	ug/l	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	
3-Methylcholanthrene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
3-Methylphenol & 4-Methylphenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.80	3.10	
3-Nitroaniline	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
4,6-Dinitro-2-methylphenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
4-Aminobiphenyl	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
4-Bromophenyl phenyl ether	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
4-Chloro-3-methylphenol	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
4-Chloroaniline	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
4-Chlorophenyl phenyl ether	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
4-Nitroaniline	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
4-Nitrophenol	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
4-Nitroquinoline-1-oxide	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
5-Nitro-o-toluidine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
7,12-Dimethylbenz(a)anthracene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
a,a-Dimethylphenethylamine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
Acetophenone	ug/l	0.50	0.50	0.69	0.63	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	2.00	0.50	
Aniline	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Anthracene	ug/l	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05					

Table 1P
Mass of Chemicals Placed in CAMU Unit 2
East Side Groundwater ISM Compliance Monitoring - Third Quarter 2017
U.S. Steel - Gary Works
Gary, Indiana

Parameter	Location ID	EL-MW-47D	EL-MW-47S	EL-MW-48D	EL-MW-48D	EL-MW-48S	EL-MW-49D	EL-MW-49S	EL-MW-50D	EL-MW-50S	EL-MW-51D	EL-MW-51S	EL-MW-SG375RD	EL-MW-SG375S	EL-MW-SG380RD	EL-MW-SG380RS	EL-MW-SG420D	EL-MW-SG420S	SP-6-T01
	Sample Type	Regular	Regular	Regular	Duplicate	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular
	Sample Date	8/30/2017	8/30/2017	8/29/2017	8/29/2017	8/29/2017	8/25/2017	8/25/2017	8/29/2017	8/29/2017	8/25/2017	8/25/2017	8/29/2017	8/29/2017	8/29/2017	8/29/2017	8/28/2017	8/28/2017	8/30/2017
	Units																		
Dibenzofuran	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Diethyl phthalate	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Dimethyl phthalate	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Di-n-butyl phthalate	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Di-n-octyl phthalate	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Dinoseb	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
Diphenylamine	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Ethyl methanesulfonate	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
Hexachlorobenzene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Hexachlorobutadiene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Hexachlorocyclopentadiene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
Hexachloroethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Hexachlorophene	ug/l	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	
Hexachloropropene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
Isophorone	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
Isosafrole	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
Methapyrilene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
Methyl methanesulfonate	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
Nitrobenzene	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
N-Nitrosodiethylamine	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
N-Nitrosodimethylamine	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
N-Nitrosodi-n-butylamine	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
N-Nitrosodi-n-propylamine	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
N-Nitrosodiphenylamine	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
N-Nitrosomethylethylamine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
N-Nitrosomorpholine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
N-Nitrosopiperidine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
N-Nitrosopyrrolidine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
o-Toluidine	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
p-Dimethylaminoazobenzene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
Pentachlorobenzene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
Pentachloroethane	ug/l	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Pentachloronitrobenzene	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
Pentachlorophenol	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
Phenacetin	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
Phenol	ug/l	2.00	1.90	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.70	0.50	0.50	0.50	0.50	0.50	5.20	
p-Phenylene diamine	ug/l	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	
Pronamide	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
Pyridine	ug/l	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	
Quinoline	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
Safrole	ug/l	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	
Polynuclear Aromatic Hydrocarbons (PAHs)																			
Acenaphthene	ug/l	0.0059	0.2500	0.0110	0.0050	0.0230	0.0125	0.0350	0.0110	0.0830	0.0125	0.3500	0.0078	0.0210	0.0077	0.0800	0.0140	1.1000	
Acenaphthylene	ug/l	0.0125	0.0130	0.0125	0.0125	0.0125	0.0125	0.0110	0.0125	0.0230	0.0125	0.0250	0.0125	0.0125	0.0125	0.0083	0.0125	0.1000	
Benzo(a)anthracene	ug/l	0.0125	0.0073	0.0125	0.0064	0.0091	0.0125	0.0125	0.0056	0.0120	0.0125	0.0125	0.0079	0.0083	0.0125	0.0099	0.0125	0.0860	
Benzo(a)pyrene	ug/l	0.0125	0.0125	0.0180	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0460	
Benzo(b)fluoranthene	ug/l	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0083	0.0125	0.0125	0.0125	0.0110	0.0125	0.0125	0.0125	0.0125	0.0700	
Benzo(g,h,i)perylene	ug/l	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0310	
Benzo(k)fluoranthene	ug/l	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0092	0.0125	0.0125	0.0125	0.0094	0.0125	0.0125	0.0125	0.0125	0.0410	
Chrysene	ug/l	0.0125	0.0125	0.0098	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0640	
Dibenz(a,h)anthracene	ug/l	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	
Fluoranthene	ug/l	0.0065	0.1000	0.0140	0.0099	0.0530	0.0120	0.0550	0.0320	0.2100	0.0160	0.1900	0.0180	0.0610	0.0067	0.0760	0.0125	0.4200	
Fluorene	ug/l	0.0125	0.0950	0.0125	0.0125	0.0130	0.0125	0.0290	0.0180	0.1300	0.0125	0.1300	0.0125	0.0190	0.0125	0.0720	0.0150	0.5000	
Indeno(1,2,3-cd)pyrene	ug/l	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0330	
Naphthalene	ug/l	0.0125	0.3000	0.0120	0.0130	0.0370	0.0125	0.0300	0.0095	0.2800	0.0125	0.8600	0.0120	0.0125	0.0093	0.0850	0.0125	4.7000	
Phenanthrene	ug/l	0.0200	0.2200	0.0200	0.0100	0.0260	0.0170	0.0620	0.0660	0.3200	0.0150	0.4000	0.0180	0.0280	0.0098	0.1100	0.0200	1.2000	
Pyrene	ug/l	0.0040	0.0480	0.0125	0.0068	0.0420	0.0100	0.0470	0.0110	0.0980	0.0160	0.1200	0.0110	0.0420	0.0125	0.0510	0.0125	0.3100	

Table 1P
Mass of Chemicals Placed in CAMU Unit 2
East Side Groundwater ISM Compliance Monitoring - Third Quarter 2017
U.S. Steel - Gary Works
Gary, Indiana

Parameter	Location ID	EL-MW-47D	EL-MW-47S	EL-MW-48D	EL-MW-48D	EL-MW-48S	EL-MW-49D	EL-MW-49S	EL-MW-50D	EL-MW-50S	EL-MW-51D	EL-MW-51S	EL-MW-SG375RD	EL-MW-SG375S	EL-MW-SG380RD	EL-MW-SG380RS	EL-MW-SG420D	EL-MW-SG420S	SP-6-T01
	Sample Type	Regular	Regular	Regular	Duplicate	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular	Regular
	Sample Date	8/30/2017	8/30/2017	8/29/2017	8/29/2017	8/29/2017	8/25/2017	8/25/2017	8/29/2017	8/29/2017	8/25/2017	8/25/2017	8/29/2017	8/29/2017	8/29/2017	8/29/2017	8/28/2017	8/28/2017	8/30/2017
	Units																		
Metals, Total																			
Aluminum	mg/l	0.0620	0.0460	0.0420	0.0410	0.2900	0.2000	1.1000	0.0970	1.5000	0.0940	0.0120	0.0420	0.1500	0.0160	0.4600	0.1500	0.5600	
Antimony	mg/l	0.0025	0.0025	0.0025	0.0018	0.0045	0.0022	0.0042	0.0025	0.0037	0.0025	0.0025	0.0023	0.0027	0.0025	0.0021	0.0034	0.0025	
Arsenic	mg/l	0.0720	0.0025	0.0980	0.1000	0.0021	0.0190	0.0025	0.0520	0.0041	0.0160	0.0025	0.1000	0.0025	0.0950	0.0017	0.0420	0.0026	
Barium	mg/l	0.1900	0.1800	0.5000	0.5100	0.0170	0.1800	0.0610	0.0990	0.0510	0.0860	0.1600	0.1600	0.0350	0.1500	0.0310	0.0530	0.0420	
Beryllium	mg/l	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0004	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0003	0.0003	
Cadmium	mg/l	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	
Calcium	mg/l	60.0000	450.0000	200.0000	200.0000	66.0000	99.0000	120.0000	120.0000	91.0000	110.0000	470.0000	200.0000	88.0000	150.0000	83.0000	390.0000	56.0000	
Chromium	mg/l	0.0011	0.0003	0.0006	0.0008	0.0014	0.0042	0.0033	0.0019	0.0003	0.0030	0.0007	0.0011	0.0071	0.0004	0.0023	0.0034	0.0008	
Chromium, Hexavalent	mg/l	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0092	0.0025	0.0055	0.0270	0.0025	
Cobalt	mg/l	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	
Copper	mg/l	0.0050	0.0028	0.0017	0.0017	0.0027	0.0021	0.0046	0.0027	0.0024	0.0023	0.0034	0.0019	0.0025	0.0050	0.0025	0.0033	0.0027	
Iron	mg/l	0.1400	0.1000	7.0000	7.1000	0.0280	2.3000	0.0990	2.6000	0.0360	0.4900	0.0730	11.0000	0.0230	8.5000	0.0150	45.0000	0.1600	
Lead	mg/l	0.0054	0.0025	0.0065	0.0069	0.0092	0.0088	0.0046	0.0048	0.0084	0.0014	0.0025	0.0078	0.0047	0.0068	0.0056	0.0180	0.0079	
Lithium	mg/l	0.0050	0.0820	0.0095	0.0092	0.0270	0.0260	0.1100	0.0420	0.0770	0.0071	0.1100	0.0470	0.1000	0.0470	0.0910	0.0710	0.0460	
Magnesium	mg/l	3.1000	0.1000	68.0000	69.0000	0.0620	35.0000	0.9300	44.0000	0.1000	0.9300	0.1000	68.0000	0.1000	55.0000	0.0140	220.0000	0.6300	
Manganese	mg/l	0.1600	0.0025	0.2700	0.2700	0.0025	0.3800	0.0570	0.2200	0.0025	0.0290	0.0025	0.1800	0.0025	0.1200	0.0025	0.3700	0.0160	
Mercury	mg/l	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	
Nickel	mg/l	0.0025	0.0058	0.0025	0.0025	0.0025	0.0004	0.0010	0.0006	0.0025	0.0033	0.0027	0.0025	0.0007	0.0025	0.0006	0.0025	0.0023	
Potassium	mg/l	85.0000	55.0000	4.0000	4.0000	14.0000	6.1000	66.0000	29.0000	63.0000	20.0000	86.0000	27.0000	56.0000	24.0000	59.0000	6.9000	78.0000	
Selenium	mg/l	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0032	0.0050	0.0065	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	
Silver	mg/l	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	
Sodium	mg/l	160.0000	92.0000	77.0000	78.0000	20.0000	43.0000	65.0000	81.0000	73.0000	57.0000	78.0000	71.0000	56.0000	110.0000	64.0000	160.0000	100.0000	
Thallium	mg/l	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	
Tin	mg/l	0.0180	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0010	0.0050	0.0050	0.0050	0.0050	0.0050	0.0020	0.0050	
Vanadium	mg/l	0.0009	0.0009	0.0014	0.0015	0.1400	0.0160	0.0380	0.0020	0.0660	0.0068	0.0013	0.0021	0.0440	0.0013	0.0490	0.0055	0.0180	
Zinc	mg/l	0.0060	0.0022	0.0055	0.0150	0.0017	0.0200	0.0058	0.0270	0.0092	0.0130	0.0034	0.0075	0.0022	0.0036	0.0050	0.0740	0.0068	
Metals, Dissolved																			
Chromium, Hexavalent	mg/l													0.010	0.003	0.004	0.003		
Iron	mg/l	0.039	0.079	6.800	6.900	0.010													
Manganese	mg/l	0.140	0.001	0.260	0.260	0.003													
General Chemistry																			
Acid Insoluble Sulfide	mg/l	0.480	0.500	0.500	0.500	0.500													
Alkalinity, bicarbonate, as CaCO3	mg/l	70.000	5.000	300.000	330.000	5.000													
Alkalinity, carbonate, as CaCO3	mg/l	15.000	53.000	5.000	5.000	30.000													
Alkalinity, Hydroxide (as CaCO3)	mg/l	5.000	1200.000	5.000	5.000	94.000													
Alkalinity, Phenolphthalein (as CaCO3)	mg/l	5.000	1200.000	5.000	5.000	110.000													
Alkalinity, Total as CaCO3	mg/l	85.000	1200.000	300.000	330.000	120.000													
Ammonia	mg/l	8.800	8.500	3.300	3.100	0.540	1.100	4.600	3.100	2.300	5.200	2.400	4.000	0.021	2.300	0.870	5.200	7.200	
Cyanide, Reactive	mg/l	0.002	0.003	0.065	0.020	0.010	0.028	0.010	0.046	0.028	0.025	0.003	0.064	0.820	0.042	0.024	0.037	0.018	
Inorganic Carbon, total	mg/l	1.600	0.250	6.200	4.600	0.250													
Methane	µg/L	2.500	320.000	600.000	580.000	160.000													
Nitrate as N	mg/l	0.100	0.100	0.100	0.100	0.270													
Nitrite as N	mg/l	0.100	1.100	0.100	0.100	0.980													
Nitrogen	mg/l	0.200	1.200	0.200	0.200	1.200													
Sulfate, dissolved	mg/l	60.000	34.000	110.000	110.000	43.000													
Total Carbon	mg/l	8.400	7.500	22.000	22.000	2.400													
Total Organic Carbon	mg/l	6.800	7.500	16.000	17.000	2.400													

Table 1P
Mass of Chemicals Placed in CAMU Unit 2
East Side Groundwater ISM Compliance Monitoring - Third Quarter 2017
U.S. Steel - Gary Works
Gary, Indiana

Parameter	Location ID	Median Concentration	Median Concentration	Mass of Chemicals in ISM Purge Water Placed in CAMU Unit 2 (Based on Median Concentration)		
	Sample Type					
	Sample Date					
	Units			Milligrams	Kilograms	Pounds
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
1,1,1-Trichloroethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
1,1,2,2-Tetrachloroethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
1,1,2-Trichloroethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
1,1-Dichloroethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
1,1-Dichloroethene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
1,2,3-Trichloropropane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
1,2-Dibromo-3-Chloropropane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
1,2-Dibromoethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
1,2-Dichloroethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
1,2-Dichloroethene	ug/l	1	0.001	0.26	2.59E-07	5.70E-07
1,2-Dichloropropane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
1,3-Dichloropropene, Total	ug/l	1	0.001	0.26	2.59E-07	5.70E-07
2-Butanone	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
2-Hexanone	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
3-Chloro-1-propene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
4-Methyl-2-pentanone	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Acetone	ug/l	5	0.005	1.30	1.30E-06	2.85E-06
Acetonitrile	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Acrolein	ug/l	10	0.01	2.59	2.59E-06	5.70E-06
Acrylonitrile	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Benzene	ug/l	250	0.25	64.83	6.48E-05	1.43E-04
Bromodichloromethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Bromoform	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Bromomethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Carbon disulfide	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Carbon tetrachloride	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Chlorobenzene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Chloroethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Chloroform	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Chloromethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Chloroprene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
cis-1,2-Dichloroethene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
cis-1,3-Dichloropropene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Dibromochloromethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Dibromomethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Dichlorodifluoromethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Ethyl methacrylate	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Ethylbenzene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Iodomethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Isobutanol	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
m&p-Xylene	ug/l	100	0.1	25.93	2.59E-05	5.70E-05
Methacrylonitrile	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Methyl methacrylate	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Methylene Chloride	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
o-Xylene	ug/l	50	0.05	12.97	1.30E-05	2.85E-05
Propionitrile	ug/l	5	0.005	1.30	1.30E-06	2.85E-06
Styrene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Tetrachloroethene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Toluene	ug/l	1.1	0.0011	0.29	2.85E-07	6.28E-07
trans-1,2-Dichloroethene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
trans-1,3-Dichloropropene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
trans-1,4-Dichloro-2-butene	ug/l	1	0.001	0.26	2.59E-07	5.70E-07
Trichloroethene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Trichlorofluoromethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Vinyl acetate	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Vinyl chloride	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Xylenes (total)	ug/l	1.5	0.0015	0.39	3.89E-07	8.56E-07

Table 1P
Mass of Chemicals Placed in CAMU Unit 2
East Side Groundwater ISM Compliance Monitoring - Third Quarter 2017
U.S. Steel - Gary Works
Gary, Indiana

Parameter	Location ID	Median Concentration	Median Concentration	Mass of Chemicals in ISM Purge Water Placed in CAMU Unit 2 (Based on Median Concentration)		
	Sample Type			Milligrams	Kilograms	Pounds
	Sample Date					
	Units					
Semi-Volatile Organic Compounds (SVOCs)						
1,2,4,5-Tetrachlorobenzene	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
1,2,4-Trichlorobenzene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
1,2-Dichlorobenzene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
1,3,5-Trinitrobenzene	ug/l	5	0.005	1.30	1.30E-06	2.85E-06
1,3-Dichlorobenzene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
1,3-Dinitrobenzene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
1,4-Dichlorobenzene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
1,4-Dioxane	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
1,4-Naphthoquinone	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
1-Naphthylamine	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
2,3,4,6-Tetrachlorophenol	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
2,4,5-Trichlorophenol	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
2,4,6-Trichlorophenol	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
2,4-Dichlorophenol	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
2,4-Dimethylphenol	ug/l	0.62	0.00062	0.16	1.61E-07	3.54E-07
2,4-Dinitrophenol	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
2,4-Dinitrotoluene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
2,6-Dichlorophenol	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
2,6-Dinitrotoluene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
2-Acetylaminofluorene	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
2-Chloronaphthalene	ug/l	0.05	0.00005	0.01	1.30E-08	2.85E-08
2-Chlorophenol	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
2-Methylnaphthalene	ug/l	0.05	0.00005	0.01	1.30E-08	2.85E-08
2-Methylphenol	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
2-Naphthylamine	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
2-Nitroaniline	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
2-Nitrophenol	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
2-Picoline	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
3,3'-Dichlorobenzidine	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
3,3'-Dimethylbenzidine	ug/l	12.5	0.0125	3.24	3.24E-06	7.13E-06
3-Methylcholanthrene	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
3-Methylphenol & 4-Methylphenol	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
3-Nitroaniline	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
4,6-Dinitro-2-methylphenol	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
4-Aminobiphenyl	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
4-Bromophenyl phenyl ether	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
4-Chloro-3-methylphenol	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
4-Chloroaniline	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
4-Chlorophenyl phenyl ether	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
4-Nitroaniline	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
4-Nitrophenol	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
4-Nitroquinoline-1-oxide	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
5-Nitro-o-toluidine	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
7,12-Dimethylbenz(a)anthracene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
a,a-Dimethylphenethylamine	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Acetophenone	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Aniline	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Anthracene	ug/l	0.05	0.00005	0.01	1.30E-08	2.85E-08
Aramite	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Benzyl alcohol	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
bis(2-Chloroethoxy)methane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
bis(2-Chloroethyl)ether	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
bis(2-Chloroisopropyl)ether	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
bis(2-Ethylhexyl)phthalate	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Butyl benzyl phthalate	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Carbazole	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Chlorobenzilate	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Diallate	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06

Table 1P
Mass of Chemicals Placed in CAMU Unit 2
East Side Groundwater ISM Compliance Monitoring - Third Quarter 2017
U.S. Steel - Gary Works
Gary, Indiana

Parameter	Location ID	Median Concentration	Median Concentration	Mass of Chemicals in ISM Purge Water Placed in CAMU Unit 2 (Based on Median Concentration)		
	Sample Type					
	Sample Date					
	Units			Milligrams	Kilograms	Pounds
Dibenzofuran	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Diethyl phthalate	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Dimethyl phthalate	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Di-n-butyl phthalate	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Di-n-octyl phthalate	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Dinoseb	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Diphenylamine	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Ethyl methanesulfonate	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Hexachlorobenzene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Hexachlorobutadiene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Hexachlorocyclopentadiene	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Hexachloroethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Hexachlorophene	ug/l	40	0.04	10.37	1.04E-05	2.28E-05
Hexachloropropene	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Isophorone	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Isosafrole	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Methapyrilene	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Methyl methanesulfonate	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Nitrobenzene	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
N-Nitrosodiethylamine	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
N-Nitrosodimethylamine	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
N-Nitrosodi-n-butylamine	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
N-Nitrosodi-n-propylamine	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
N-Nitrosodiphenylamine	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
N-Nitrosomethylethylamine	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
N-Nitrosomorpholine	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
N-Nitrosopiperidine	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
N-Nitrosopyrrolidine	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
o-Toluidine	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
p-Dimethylaminoazobenzene	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Pentachlorobenzene	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Pentachloroethane	ug/l	0.5	0.0005	0.13	1.30E-07	2.85E-07
Pentachloronitrobenzene	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Pentachlorophenol	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Phenacetin	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Phenol	ug/l	1.7	0.0017	0.44	4.41E-07	9.70E-07
p-Phenylene diamine	ug/l	25	0.025	6.48	6.48E-06	1.43E-05
Pronamide	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Pyridine	ug/l	5	0.005	1.30	1.30E-06	2.85E-06
Quinoline	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Safrole	ug/l	2.5	0.0025	0.65	6.48E-07	1.43E-06
Polynuclear Aromatic Hydrocarbons (PAHs)						
Acenaphthene	ug/l	0.023	0.000023	0.0060	5.96E-09	1.31E-08
Acenaphthylene	ug/l	0.0125	0.0000125	0.0032	3.24E-09	7.13E-09
Benzo(a)anthracene	ug/l	0.0125	0.0000125	0.0032	3.24E-09	7.13E-09
Benzo(a)pyrene	ug/l	0.0125	0.0000125	0.0032	3.24E-09	7.13E-09
Benzo(b)fluoranthene	ug/l	0.0125	0.0000125	0.0032	3.24E-09	7.13E-09
Benzo(g,h,i)perylene	ug/l	0.02	0.00002	0.0052	5.19E-09	1.14E-08
Benzo(k)fluoranthene	ug/l	0.0125	0.0000125	0.0032	3.24E-09	7.13E-09
Chrysene	ug/l	0.0125	0.0000125	0.0032	3.24E-09	7.13E-09
Dibenz(a,h)anthracene	ug/l	0.0125	0.0000125	0.0032	3.24E-09	7.13E-09
Fluoranthene	ug/l	0.053	0.000053	0.0137	1.37E-08	3.02E-08
Fluorene	ug/l	0.019	0.000019	0.0049	4.93E-09	1.08E-08
Indeno(1,2,3-cd)pyrene	ug/l	0.0125	0.0000125	0.0032	3.24E-09	7.13E-09
Naphthalene	ug/l	0.04	0.00004	0.0104	1.04E-08	2.28E-08
Phenanthrene	ug/l	0.028	0.000028	0.0073	7.26E-09	1.60E-08
Pyrene	ug/l	0.042	0.000042	0.0109	1.09E-08	2.40E-08

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U.S. Steel - Gary Works
Gary, Indiana

Parameter	Location ID	Median Concentration	Median Concentration mg/L	Mass of Chemicals in ISM Purge Water Placed in CAMU Unit 2 (Based on Median Concentration)		
	Sample Type					
	Sample Date					
	Units			Milligrams	Kilograms	Pounds
Metals, Total						
Aluminum	mg/l	0.13	0.13	33.71	3.37E-05	7.42E-05
Antimony	mg/l	0.0025	0.0025	0.65	6.48E-07	1.43E-06
Arsenic	mg/l	0.0066	0.0066	1.71	1.71E-06	3.77E-06
Barium	mg/l	0.079	0.079	20.49	2.05E-05	4.51E-05
Beryllium	mg/l	0.001	0.001	0.26	2.59E-07	5.70E-07
Cadmium	mg/l	0.005	0.005	1.30	1.30E-06	2.85E-06
Calcium	mg/l	150	150	38896.50	3.89E-02	8.56E-02
Chromium	mg/l	0.0018	0.0018	0.47	4.67E-07	1.03E-06
Chromium, Hexavalent	mg/l	0.0025	0.0025	0.65	6.48E-07	1.43E-06
Cobalt	mg/l	0.0025	0.0025	0.65	6.48E-07	1.43E-06
Copper	mg/l	0.0025	0.0025	0.65	6.48E-07	1.43E-06
Iron	mg/l	0.3	0.3	77.79	7.78E-05	1.71E-04
Lead	mg/l	0.0074	0.0074	1.92	1.92E-06	4.22E-06
Lithium	mg/l	0.046	0.046	11.93	1.19E-05	2.62E-05
Magnesium	mg/l	0.93	0.93	241.16	2.41E-04	5.31E-04
Manganese	mg/l	0.029	0.029	7.52	7.52E-06	1.65E-05
Mercury	mg/l	0.0001	0.0001	0.03	2.59E-08	5.70E-08
Nickel	mg/l	0.0025	0.0025	0.65	6.48E-07	1.43E-06
Potassium	mg/l	27	27	7001.37	7.00E-03	1.54E-02
Selenium	mg/l	0.005	0.005	1.30	1.30E-06	2.85E-06
Silver	mg/l	0.0025	0.0025	0.65	6.48E-07	1.43E-06
Sodium	mg/l	97	97	25153.07	2.52E-02	5.53E-02
Thallium	mg/l	0.005	0.005	1.30	1.30E-06	2.85E-06
Tin	mg/l	0.005	0.005	1.30	1.30E-06	2.85E-06
Vanadium	mg/l	0.0043	0.0043	1.12	1.12E-06	2.45E-06
Zinc	mg/l	0.0075	0.0075	1.94	1.94E-06	4.28E-06
Metals, Dissolved						
Chromium, Hexavalent	mg/l	0.0025	0.0025	0.65	6.48E-07	1.43E-06
Iron	mg/l	0.13	0.13	33.71	3.37E-05	7.42E-05
Manganese	mg/l	0.14	0.14	36.30	3.63E-05	7.99E-05
General Chemistry						
Acid Insoluble Sulfide	mg/l	0.5	0.5	129.66	1.30E-04	2.85E-04
Alkalinity, bicarbonate, as CaCO3	mg/l	70	70	18151.70	1.82E-02	3.99E-02
Alkalinity, carbonate, as CaCO3	mg/l	15	15	3889.65	3.89E-03	8.56E-03
Alkalinity, Hydroxide (as CaCO3)	mg/l	5	5	1296.55	1.30E-03	2.85E-03
Alkalinity, Phenolphthalein (as CaCO3)	mg/l	5	5	1296.55	1.30E-03	2.85E-03
Alkalinity, Total as CaCO3	mg/l	300	300	77793.00	7.78E-02	1.71E-01
Ammonia	mg/l	3.6	3.6	933.52	9.34E-04	2.05E-03
Cyanide, Reactive	mg/l	0.037	0.037	9.59	9.59E-06	2.11E-05
Inorganic Carbon, total	mg/l	1.6	1.6	414.90	4.15E-04	9.13E-04
Methane	µg/L	200	0.2	51.86	5.19E-05	1.14E-04
Nitrate as N	mg/l	0.1	0.1	25.93	2.59E-05	5.70E-05
Nitrite as N	mg/l	0.31	0.31	80.39	8.04E-05	1.77E-04
Nitrogen	mg/l	1	1	259.31	2.59E-04	5.70E-04
Sulfate, dissolved	mg/l	60	60	15558.60	1.56E-02	3.42E-02
Total Carbon	mg/l	11	11	2852.41	2.85E-03	6.28E-03
Total Organic Carbon	mg/l	11	11	2852.41	2.85E-03	6.28E-03

Table 1P
Mass of Chemicals Placed in CAMU Unit 2
East Side Groundwater ISM Compliance Monitoring - Third Quarter 2017
U.S. Steel - Gary Works
Gary, Indiana

Notes:
mg/l = milligrams per liter
ug/l = micrograms per liter
Bold font indicates positive detection
Italics and shading indicate a non-detect result; one-half the reporting limit was used for non-detect results
Blank cell indicates that analysis for the parameter was not required.
Samples collected on August 25-30, 2017.
Per TRI Reporting guidance, the median value is used when a range of data values is present.
Volume of purge water place in CAMU = 68.42 gallons
Volume of purge water placed in CAMU (liters): (68.42 gal)(3.79 liter/gal) = 259.31 liters
Mass of individual chemicals placed in CAMU = (concentration)(volume of purge water)