

Table 2
Summary of 2017 CAMU Leak Detection Results
U. S. Steel - Gary Works
Gary, Indiana

Parameter	Location ID	LDS-01	LDS-01	LDS-02	LDS-02
	Sample Date	03/20/17	9/11/2017	03/20/17	9/11/2017
	Sample Type	N	N	N	N
Parameter	Units				
Total Metals					
Arsenic	mg/l	0.00068 J	0.0050 U	0.0050 U	0.0050 U
Barium	mg/l	0.19	0.26	0.024	0.059
Cadmium	mg/l	0.0020 U	0.0020 U	0.0020 U	0.0020 U
Chromium	mg/l	0.0030 J	0.0025 J	0.00021 J	0.00097 J
Hexavalent Chromium	mg/l	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Lead	mg/l	0.0050 U	0.00086 J	0.0050 U	0.0050 U
Lithium	mg/l	0.046	0.057	0.029	0.037
Mercury	mg/l	0.000072 J	< 0.00020 U	< 0.00020 U	< 0.00020 U
Selenium	mg/l	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Silver	mg/l	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Polychlorinated Biphenyls (PCBs)					
Aroclor 1268	ug/l	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor-1016	ug/l	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor-1221	ug/l	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor-1232	ug/l	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor-1242	ug/l	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor-1248	ug/l	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor-1254	ug/l	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor-1260	ug/l	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor-1262	ug/l	0.20 U	0.20 U	0.20 U	0.20 U
Polychlorinated biphenyls, Total	ug/l	0.20 U	0.20 U	0.20 U	0.20 U
Volatile Organic Compounds (VOCs)					
1,1,1,2-Tetrachloroethane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
1,1,1-Trichloroethane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
1,1,2,2-Tetrachloroethane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
1,1,2-Trichloroethane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
1,1-Dichloroethane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
1,1-Dichloroethene	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichloropropane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
1,2-Dibromo-3-Chloropropane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
1,2-Dibromoethane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
1,2-Dichloroethane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
1,2-Dichloropropane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
2-Butanone	ug/l	3.6 J	19	5.0 U	5.0 U
2-Hexanone	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
3-Chloro-1-propene	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Acetone	ug/l	19	110 J	10 U	11
Acetonitrile	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Acrolein	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Acrylonitrile	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	ug/l	210	150	0.90 J	1.0
Bromodichloromethane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
Bromoform	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
Chloroform	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
Chloroprene	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
Dibromomethane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
Dichlorodifluoromethane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
Ethyl methacrylate	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/l	2.4	5.6	1.0 U	1.0 U
Iodomethane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
Isobutanol	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylene	ug/l	8.5	8.7	2.0 U	0.81 J
Methacrylonitrile	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Methyl methacrylate	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/l	5.0 U	5.0 U	5.0 U	5.0 U
o-Xylene	ug/l	4.6	4.6	1.0 U	1.0 U
Propionitrile	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/l	2.6	3.2	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,4-Dichloro-2-butene	ug/l	2.0 U	2.0 U	2.0 U	2.0 U
Trichloroethene	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/l	1.0 U	1.0 UJ	1.0 U	1.0 UJ
Vinyl acetate	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/l	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/l	13	13	3.0 U	0.81 J
Semi-volatile Organic Compounds (SVOCs)					

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	Sample Date	03/20/17	9/11/2017	03/20/17	9/11/2017
	Sample Type	N	N	N	N
Units					
1,2,4,5-Tetrachlorobenzene	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
1,2,4-Trichlorobenzene	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
1,2-Dichlorobenzene	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
1,3,5-Trinitrobenzene	ug/l	10 U	10 U	11 U	10 U
1,3-Dichlorobenzene	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
1,4-Dichlorobenzene	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
1,4-Dioxane	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
1,4-Naphthoquinone	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
1-Naphthylamine	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
2,3,4,6-Tetrachlorophenol	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
2,4,5-Trichlorophenol	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
2,4,6-Trichlorophenol	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
2,4-Dichlorophenol	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
2,4-Dimethylphenol	ug/l	33	21	1.1 U	4.6
2,4-Dinitrophenol	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
2,4-Dinitrotoluene	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
2,6-Dichlorophenol	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
2,6-Dinitrotoluene	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
2-Acetylaminofluorene	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
2-Chloronaphthalene	ug/l	0.10 U	0.10 U	0.11 U	0.10 U
2-Chlorophenol	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
2-Methylnaphthalene	ug/l	11	39	0.33	6.8
2-Methylphenol	ug/l	9.2	5.0	1.1 U	1.1
2-Naphthylamine	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
2-Nitroaniline	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
2-Nitrophenol	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
2-Picoline	ug/l	4.3 J	5.0 U	5.4 U	5.0 U
2-sec-Butyl-4,6-dinitrophenol (D)	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
3,3'-Dichlorobenzidine	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
3,3'-Dimethylbenzidine	ug/l	26 U	25 U	27 U	25 U
3-Methylcholanthrene	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
3-Methylphenol & 4-Methylphenol	ug/l	13	11	1.1 U	1.5
3-Nitroaniline	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
4,6-Dinitro-2-methylphenol	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
4-Aminobiphenyl	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
4-Bromophenyl phenyl ether	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
4-Chloro-3-methylphenol	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
4-Chloroaniline	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
4-Chlorophenyl phenyl ether	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
4-Nitroaniline	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
4-Nitrophenol	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
4-Nitroquinoline-1-oxide	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
5-Nitro-o-toluidine	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
7,12-Dimethylbenz(a)anthracene	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
Acetophenone	ug/l	1.6	4.4	1.1 U	1.0 U
Aniline	ug/l	0.59 J	1.0 U	1.1 U	1.0 U
Aramite	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
Benzyl alcohol	ug/l	0.88 J	1.0 U	1.1 U	1.0 U
bis(2-Chloroethoxy)methane	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
bis(2-Chloroethyl)ether	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
bis(2-Ethylhexyl)phthalate	ug/l	1.0 U	5.5	1.1 U	1.0 U
Butyl benzyl phthalate	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
Carbazole	ug/l	22	25	1.1 U	5.1
Chlorobenzilate	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
Diallate	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
Dibenzofuran	ug/l	14	39	1.1 U	5.6
Diethyl phthalate	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
Dimethyl phthalate	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
Di-n-butyl phthalate	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
Di-n-octyl phthalate	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
Diphenylamine	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
Ethyl methanesulfonate	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
Hexachlorobenzene	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
Hexachlorobutadiene	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
Hexachlorocyclopentadiene	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
Hexachloroethane	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
Hexachlorophene	ug/l	83 U	80 U	87 U	80 U
Hexachloropropene	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
Isophorone	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
Isosafrole	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
m-Dinitrobenzene [1,3-Dinitrobenzene]	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
Methapyrene	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
Methyl methanesulfonate	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
Nitrobenzene	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
N-Nitrosodiethylamine	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
N-Nitrosodimethylamine	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
N-Nitrosodi-n-butylamine	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
N-Nitrosodi-n-propylamine	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
N-Nitrosodiphenylamine	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
N-Nitrosomethyl ethylamine	ug/l	5.2 U	5.0 U	5.4 U	5.0 U

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	Sample Date	03/20/17	9/11/2017	03/20/17	9/11/2017
	Sample Type	N	N	N	N
Units					
N-Nitrosomorpholine	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
N-Nitrosopiperidine	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
N-Nitrosopyrrolidine	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
o-Toluidine	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
p-Dimethylaminoazobenzene	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
Pentachlorobenzene	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
Pentachloroethane	ug/l	1.0 U	1.0 U	1.1 U	1.0 U
Pentachloronitrobenzene	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
Pentachlorophenol	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
Phenacetin	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
Phenol	ug/l	14	10	1.1 U	1.8
Pronamide	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
Pyridine	ug/l	0.59 J	10 U	11 U	10 U
Quinoline	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
Safrole	ug/l	5.2 U	5.0 U	5.4 U	5.0 U
Polynuclear Aromatic Hydrocarbons (PAHs)					
2-Methylnaphthalene	ug/l	11	29	0.44	5.7
Acenaphthene	ug/l	29	56	1.1	11
Acenaphthylene	ug/l	0.89	1.2	0.24	1.4
Anthracene	ug/l	1.0	1.4	0.074	0.20
Benzo(a)anthracene	ug/l	0.020 J	0.056	0.028 U	0.025 U
Benzo(a)pyrene	ug/l	0.015 J	0.045	0.028 U	0.025 U
Benzo(b)fluoranthene	ug/l	0.016 J	0.056	0.028 U	0.025 U
Benzo(g,h,i)perylene	ug/l	0.040 U	0.057	0.044 U	0.040 U
Benzo(k)fluoranthene	ug/l	0.013 J	0.023 J	0.028 U	0.025 U
Chrysene	ug/l	0.0082 J	0.045	0.028 U	0.025 U
Dibenz(a,h)anthracene	ug/l	0.025 U	0.0084 J	0.028 U	0.025 U
Fluoranthene	ug/l	0.25	0.37	0.019 J	0.041
Fluorene	ug/l	8.6	15	0.71	3.0
Indeno(1,2,3-cd)pyrene	ug/l	0.016 J	0.032	0.028 U	0.025 U
Naphthalene	ug/l	23	270	0.54	40
Phenanthrene	ug/l	3.6	8.1	0.22	1.0
Pyrene	ug/l	0.11	0.23	0.015 J	0.026
General Chemistry					
Total Dissolved Solids	mg/l	1,500	1,800	480	870
Total Suspended Solids	mg/l	1.2 U	1.3	1.2 U	15
Ammonia	mg/l	9.6	5.7	0.15	0.68
Field Parameters					
pH	SU	12	12	12	12
Field Specific Conductance	mS/cm	3.80	5.82	3.20	2.66
Temperature	°C	57.5	63.9	53.5	63.9

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Notes:

°C - degrees Celsius

mg/l - milligrams per liter

mS/cm - milliSiemens per centimeter

N - Normal Sample

ug/l - micrograms per liter

SU - standard units

J indicates the chemical result is estimated, detected above the method detection limit but below the reporting limit.

U indicates the chemical was not detected. The value presented is the reporting limit.

UU indicates the chemical was not detected at or above the sample reporting limit.

Bold - Indicates the sample result is a detect