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Supplemental Tables (1 and 2) and References

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*Note.* The authors submitted these supplemental tables and references as additional resources for readers. The *Journal of Environmental Health* did not copy edit or format the text.

**Supplemental Table 1: Chemicals Contaminants of Concern Present at Superfund Sites in South Atlantic Region Which Increase Risk of Colorectal and Lung and Bronchus Cancer**

<b>Cancer Type</b>	<b>Chemical</b>	<b>Sites (n)</b>
Colorectal	Bromodichloromethane	19
Colorectal	Bromoform	7
Lung and bronchus	Arsenic	126
Lung and bronchus	Benzene	107
Lung and bronchus	Cadmium	106
Lung and bronchus	Cobalt And Cobalt Compounds	77
Lung and bronchus	Beryllium	65
Lung and bronchus	1,2-Dichloroethane	61
Lung and bronchus	Methylene Chloride	59
Lung and bronchus	Chlorinated Dioxins and Furans	57
Lung and bronchus	Methane	52
Lung and bronchus	Dichloromethane	49
Lung and bronchus	Polycyclic Aromatic Hydrocarbons	32
Lung and bronchus	Chromium (Hexavalent)	13
Lung and bronchus	1,2-Dibromo-3-Chloropropane	7
Lung and bronchus	Arsenic (Inorganic Compounds)	7
Lung and bronchus	Asbestos	7
Lung and bronchus	1,2-Dibromoethane	6
Lung and bronchus	Cumene (Isopropyl Benzene)	6
Lung and bronchus	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (Rdx)	6
Lung and bronchus	Petroleum	6
Lung and bronchus	Total Petroleum Hydrocarbons (TPH)	5
Lung and bronchus	1-Phenylethanone	4
Lung and bronchus	Trichloroethane (Mixed Isomers)	4
Lung and bronchus	(E)-1,3-Dichloro-1-Propene	3
Lung and bronchus	1,2-Dibromo-3-Chloropropane (DBCP)	3
Lung and bronchus	Cobalt-60	3
Lung and bronchus	Hexachloro-1,3-Butadiene	3
Lung and bronchus	Methylphenol (Cresol Mixed Isomers)	3
Lung and bronchus	N,N-Diphenylnitrous Amide	3
Lung and bronchus	N,N-Dipropylnitrous Amide	3
Lung and bronchus	Polycyclic Aromatic Hydrocarbons, High Molecular Weight	3
Lung and bronchus	Methyl-nitrobenzene derivatives	3
Lung and bronchus	1,3,5,7-Tetranitro-1,3,5,7-Tetrazocane (Hmx)	2
Lung and bronchus	2-(1-Methylpropyl)-4,6-Dinitrophenol (Dinoseb)	2
Lung and bronchus	2,4-Dichlorophenoxyacetic Acid	2
Lung and bronchus	3,6-Dichloro-2-Methoxybenzoic Acid	2

Lung and bronchus	4-(4-Amino-3-Chlorophenyl)-2-Chloroaniline	2
Lung and bronchus	Benzo[A]Aceanthrylene	2
Lung and bronchus	Ethylene Dibromide	2
Lung and bronchus	Phosphorus (P4)	2
Lung and bronchus	Methyl-substituted benzenes	5
Lung and bronchus	(3r)-1-Azabicyclo[2.2.2]Octan-3-Yl Hydroxy(Diphenyl) Acetate	1
Lung and bronchus	(Z)-1,3-Dichloro-1-Propene	1
Lung and bronchus	1-Chloro-2-[(2-Chloroethyl) Sulfanyl] Ethane	1
Lung and bronchus	1-Chloro-2-Ethenoxyethane	1
Lung and bronchus	1h-Indene	1
Lung and bronchus	2-(2,4,5-Trichlorophenoxy)Propanoic Acid	1
Lung and bronchus	2,2,2-Trichloro-1,1-Bis(4-Chlorophenyl)Ethanol	1
Lung and bronchus	2-Hydroxy-2,2-Diphenylacetic Acid	1
Lung and bronchus	2-Methyl-2-Propanol	1
Lung and bronchus	2-Methyl-4,6-Dinitrophenol (4,6-Dinitro-O-Cresol)	1
Lung and bronchus	2-Nitroaniline	1
Lung and bronchus	2-Propenenitrile (Acrylonitrile)	1
Lung and bronchus	4-(2,4-Dichlorophenoxy)Butanoic Acid	1
Lung and bronchus	Aluminum Oxide	1
Lung and bronchus	Aroclor 1268	1
Lung and bronchus	Azepan-2-One	1
Lung and bronchus	Benzophenone	1
Lung and bronchus	Bis(2-Chloroethoxy) Methane	1
Lung and bronchus	C11-C22 Aromatic Hydrocarbons	1
Lung and bronchus	Carbonyl Dichloride (Phosgene)	1
Lung and bronchus	Chloromethylbenzene	1
Lung and bronchus	Chromium(Iii) Chloride	1
Lung and bronchus	Cyclohexane	1
Lung and bronchus	Dibromomethane	1
Lung and bronchus	Dichloro-[(E)-2-Chloroethenyl] Arsane (Lewisite)	1
Lung and bronchus	Diphenamid	1
Lung and bronchus	Disulfoton	1
Lung and bronchus	Ethane-1,2-Diamine	1
Lung and bronchus	Methanethiol	1
Lung and bronchus	Mineral Oils	1
Lung and bronchus	Mustard Gas	1
Lung and bronchus	Naphthenic Acids	1
Lung and bronchus	Nitrite	1
Lung and bronchus	O-Dinitrobenzene	1
Lung and bronchus	Pentaerythritol Tetranitrate (Petn)	1
Lung and bronchus	Phenylmethanol	1

Lung and bronchus	Polycyclic Aromatic Hydrocarbons, Low Molecular Weight	1
Lung and bronchus	Propanedinitrile	1
Lung and bronchus	Propylbenzene	1
Lung and bronchus	Radionuclides	1
Lung and bronchus	S-Ethyl N,N-Dipropylcarbamothioate (Eptc)	1
Lung and bronchus	Silicon Dioxide (Amorphous Silica)	1
Lung and bronchus	Vanadium Oxide (5)	1

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Note: These chemicals were detected in environmental media at Superfund sites located within South Atlantic Region states or within a 5 km buffer of the state boundary (United States Environmental Protection Agency Superfund Program, 2013, 2023). Chemicals were considered a risk factor for colorectal or lung and bronchus cancer if they were classified as contaminant of concern by the U.S. Environmental Protection Agency (EPA) and a known human carcinogen specifically associated with lung, bronchus, or colorectal tumors by either the EPA Integrated Risk Information System (United States Environmental Protection Agency, 2023), the National Toxicology Program Chemical Effects in Biological Systems (National Institute of Environmental Health Sciences Division of Translational Toxicology, 2023), or the World Health Organization International Agency for Research on Cancer (International Agency for Research on Cancer, 2023). The EPA classifies chemicals as contaminants of concern based on several criteria including concentration, potential route(s) of exposure, and toxicity (United States Environmental Protection Agency, 2024).

**Supplemental Table 2: Characteristics of Subcounty Areas with Suppressed and Non-Suppressed National Environmental Public Health Tracking Network Cancer Incidence Rates**

	Colorectal Cancer Incidence Rates			Lung and Bronchus Cancer Incidence Rates		
	Non-Suppressed (n=3,749) Mean ± SD	Suppressed (n=2,562) Mean ± SD	p-value	Non-Suppressed (n=5,022) Mean ± SD	Suppressed (n=1,289) Mean ± SD	p-value
Proximity to Superfund Sites with CRCC	0.0365 ± 0.0755	0.0390 ± 0.0794	0.79	n/a	n/a	
Proximity to Superfund Sites with CRLC	n/a	n/a		0.1058 ± 0.2186	0.111 ± 0.2001	0.42
SVI score	0.53 ± 0.28	0.45 ± 0.29	<0.001	0.53 ± 0.28	0.40 ± 0.29	<0.001
SVI socioeconomic status theme score	0.53 ± 0.28	0.45 ± 0.30	<0.001	0.53 ± 0.28	0.39 ± 0.30	<0.001
Binge drinking among adults >18 years	15.9 ± 2.5	17.0 ± 3.0	<0.001	16.0 ± 2.5	17.5 ± 3.4	<0.001
Current cigarette smoking among adults >18 years	19.0 ± 5	17.7 ± 5.2	<0.001	19.2 ± 4.9	15.8 ± 5.0	<0.001
Obesity among adults >18 years	32.6 ± 5.4	31.5 ± 6.1	<0.001	32.9 ± 5.3	29.5 ± 6.2	<0.001
Percent of adults with no leisure-time physical activity	26.8 ± 5.9	24.0 ± 6.6	<0.001	26.6 ± 5.9	22.1 ± 6.8	<0.001
Colorectal cancer screening among adults 50 – 75	64.4 ± 5.2	64.6 ± 5.5	0.19	64.5 ± 5.1	64.6 ± 6.1	0.65
Percent urban-dwelling population	75.3 ± 41.3	83.3 ± 35.9	<0.001	74.8 ± 41.6	93.3 ± 24.3	<0.001

Notes: CRCC, chemical risks for colorectal cancer; CRLC, chemical risks for lung cancer; SVI, Social Vulnerability Index. CDC created standardized subcounty areas by spatially aggregating census tracts, excluding those without any resident population, into a contiguous area with a minimum population of 5 000 persons (Werner & Strosnider, 2020). P-values are from a two-sided t-test comparing the mean covariate value among subcounty areas with non-suppressed cancer incidence data to those with suppressed cancer incidence data.

## Supplemental References

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