

Waste Sites Detected in Study Provinces

ID	Number	Latitude	Longitude	High Risk	Risk Score	Area (m^2)	Soil Clay Fraction	Elevation	Drainage Direction	Upstream Drainage Area (km^2)	Height Above Nearest Drainage (m)	Landform Type	Soil Sand Fraction	Slope (degrees)	Fine Earth Density (kg / m^3)	Soil Great Group	Distance to Waterway (m)	Nearest Water Type	Population (1 km)	Population (5 km)	Population (10 km)	Wind Speed (m/s)	Place Name
8f4141951249875	8	18.852	105.641		0.36	1785	0.25	14	southeast	0.92314	0	Lower slope (warm)	0.49	1	116	1	1073	river	791	25,433	123,157	2.27	Nghi Lộc District, Nghệ An Province, Vietnam
8f41422140ce59c	10	20.744	106.627	Yes	0.28	2810	0.25	3	north	0.00800	1	Lower slope (flat)	0.43	1	121	0	3366	river	3,034	75,529	352,989	2.98	Xã Du Lễ, Huyện Kiến Thụy, Haiphong, Vietnam
8f414221c83508a	11	20.741	106.570		0.19	612	0.27	2	northeast	2.97761	0	Upper slope (flat)	0.38	0	112	0	560	river	3,319	69,042	339,120	3.15	Tiên Lãng, Haiphong, Thị trấn Tiên Lãng, Vietnam
8f41422a85b5172	12	20.821	106.597	Yes	0.10	67	-1.00	2	northeast	0.36000	0	Lower slope (flat)	-1.00	0	-1	-1	139	river	5,499	133,603	700,778	3.06	Vân Tràng 1, Trường Sơn, Haiphong, Xã Trường Sơn, 35999, Vietnam
8f41423aaa32171	13	20.708	106.707		0.34	711	0.26	3	northeast	0.00801	1	Lower slope (flat)	0.37	0	115	0	1772	river	2,510	58,956	216,158	3.25	Xã Đại Hạp, Huyện Kiến Thụy, Haiphong, Vietnam
8f414276d9ae353	14	20.815	106.754	Yes	0.33	6143	0.27	4	northwest	0.00800	0	Upper slope (flat)	0.42	0	110	1	520	river	2,239	74,870	595,672	3.34	Quận Hải An, Haiphong, Vietnam
8f4145229999c4b	40	18.504	105.820		0.30	1832	0.26	18	northwest	0.02434	2	Lower slope (warm)	0.40	3	140	1	377	dam	543	21,556	111,275	2.80	Lộc Hà District, Hà Tĩnh Province, Vietnam
8f414524556b899	41	18.511	105.705		0.25	1624	0.27	6	south	0.00811	0	Valley	0.40	1	120	0	1000	river	1,485	41,460	127,425	2.51	Hồng Lĩnh town, Hồng Lĩnh, Hà Tĩnh Province, 483700, Vietnam
8f414525a435730	42	18.617	105.696			0	0.28	5	southwest	0.00811	4	Lower slope (flat)	0.39	0	123	0	744	river	1,359	65,732	371,300	2.81	Petrolimex, Quốc lộ 1, Xuân An, Nghi Xuân District, Hà Tĩnh Province, 038, Vietnam
8f41452e464135e	43	18.619	105.794		0.27	1476	0.23	7	south	0.00811	1	Lower slope (flat)	0.44	0	124	1	1544	river	876	18,512	74,489	2.94	Linh Trung, Nghi Xuân District, Hà Tĩnh Province, 45506, Vietnam
8f4145360791a21	44	18.362	105.852		0.26	4874	0.26	5	southeast	0.06497	1	Lower slope (flat)	0.43	1	124	0	1485	water	2,287	57,999	170,786	2.49	Thạch Hà, Thạch Hà District, Hà Tĩnh Province, Vietnam
8f4151850b2a0d8	47	21.322	107.429			0	0.29	39	southwest	0.00797	50	Upper slope (warm)	0.40	9	121	0	456	water	908	15,839	32,967	2.43	Tiên Yên District, Quang Ninh Province, Vietnam
8f415c80648b89c	53	21.118	106.419	Yes		0	0.26	2	east	23.18360	0	Lower slope (flat)	0.44	1	124	48	786	river	2,811	67,777	159,766	3.48	Chí Linh, Hải Dương Province, Vietnam
8f415c80abadc4b	54	21.126	106.330	Yes	0.21	717	0.31	63	west	0.00798	7	Upper slope (warm)	0.40	6	116	1	186	water	1,588	43,830	182,088	3.85	Chí Linh, Hải Dương Province, Vietnam
8f415c95ac73742	55	21.028	106.328		0.40	3011	0.22	4	north	0.02397	1	Lower slope (flat)	0.45	0	118	1	150	ditch	1,506	55,212	298,038	3.19	Nam Sách District, Hải Dương Province, Vietnam
8f415c976836130	56	20.940	106.435		0.34	1951	0.28	5	north	0.02398	0	Lower slope (flat)	0.42	1	129	0	1720	river	3,587	67,533	290,867	2.74	Kim Cơn, Thanh Hà District, Hải Dương Province, Vietnam
8f4160a28b06865	65	16.398	107.637		0.25	1013	0.31	26	northeast	0.00821	9	Upper slope (warm)	0.43	4	126	1	243	stream	1,318	34,568	267,186	2.25	Hương Thủy, Thừa Thiên Huế Province, 530000, Vietnam
8f4161403cc021a	67	16.932	107.044	Yes		0	0.29	17	north	0.00818	7	Lower slope (warm)	0.43	4	132	0	198	stream	884	20,769	61,623	3.33	An Xá, Gio Linh District, Quang Trị province, Vietnam
8f4161429110913	68	16.858	106.996		0.36	2215	0.26	57	southwest	0.00819	32	Upper slope (warm)	0.47	3	125	1	1378	lake	294	10,285	55,357	3.89	Gio Linh District, Quang Trị province, Vietnam
8f416150935b336	69	16.794	107.071		0.36	737	0.29	34	west	0.04095	9	Lower slope (warm)	0.40	1	129	1	1145	river	1,653	63,361	125,048	3.37	Dong Ha City, Quang Trị province, Vietnam
8f4161c8c021cac	70	16.658	107.237		0.16	164	0.30	26	northeast	0.00820	15	Upper slope (warm)	0.42	1	116	2	1775	water	208	15,359	54,826	2.63	Tân Phước, Hải Lăng District, Quang Trị province, Vietnam
8f4161d8b58b95c	71	16.580	107.326		0.10	855	0.32	28	northwest	0.00820	11	Lower slope (warm)	0.37	2	117	0	424	reservoir	210	9,146	35,426	2.12	Phong Điền District, Thừa Thiên Huế Province, Vietnam
8f41642ed8258f4	72	16.041	108.142		0.05	6	0.29	35	north	0.03289	7	Lower slope (warm)	0.41	10	124	0	1159	pond	4,237	187,406	730,542	1.31	Hoàng Văn Thái, Liên Chiểu, Đà Nẵng, 556264, Vietnam
8f4164356625296	73	15.905	108.303		0.38	1532	0.27	10	west	0.00823	1	Upper slope (flat)	0.44	1	149	0	1696	ditch	3,647	96,686	254,527	2.85	Cẩm Hà, Hội An, Quang Nam Province, 560000, Vietnam
8f41656ccd736a5	74	16.222	107.261	Yes	0.40	4137	0.31	561	southeast	0.01643	4	Upper slope (warm)	0.41	4	118	1	259	canal	419	8,418	19,248	2.98	Phủ Vĩnh, A Lưới District, Thừa Thiên Huế Province, Vietnam
8f4165885b45518	75	15.435	107.807			0	0.33	362	southwest	0.00825	18	Upper slope (warm)	0.35	6	122	0	165	ditch	185	3,621	8,624	2.06	Khâm Đức, Phước Sơn District, Quang Nam Province, Vietnam
8f4165c108de1ab	76	15.701	108.072		0.25	3791	0.29	27	southwest	0.00823	16	Lower slope (warm)	0.37	1	118	0	517	stream	436	10,043	25,864	1.62	Nông Sơn District, Quang Nam Province, Vietnam
8f416ad30105974	77	18.089	105.793		0.38	4208	0.27	46	northeast	0.00813	24	Lower slope (warm)	0.44	3	116	3	180	water	276	4,993	19,453	2.82	Hồ Chí Minh Highway, Cây Trào, Hương Khê District, Hà Tĩnh Province, Vietnam
8f416e406223803	78	17.773	106.258		0.40	2106	0.28	64	southeast	0.00815	69	Upper slope (warm)	0.45	25	125	1	967	river	329	13,395	40,123	3.04	Tuyên Hóa District, Quang Bình province, 0084, Vietnam
8f416e59c34a56e	79	17.839	106.388		0.27	499	0.29	33	northeast	0.02443	11	Lower slope (warm)	0.46	2	127	1	543	reservoir	792	25,100	95,641	3.07	TL 22, Quảng Trạch District, Quang Bình province, Vietnam
8f416e6aab3004b	80	17.941	105.811		0.41	1879	0.31	88	northeast	0.28490	7	Valley	0.35	13	110	7	1016	river	232	4,605	15,248	2.66	Tuyên Hóa District, Quang Bình province, Vietnam
8f416e7b36aa98e	81	17.876	106.005		0.36	5050	0.27	70	northwest	0.08143	11	Lower slope (warm)	0.41	8	82	1	1315	water	274	5,673	16,831	2.08	Dong Le Town, Tuyên Hóa District, Quang Bình province, Vietnam
8f416ed801b3434	82	17.403	106.596		0.14	457	0.31	26	northeast	0.01633	9	Lower slope (warm)	0.40	4	123	2	370	river	624	31,432	116,922	3.94	Quảng Ninh District, Quang Bình province, Vietnam
8f658492da5a500	86	10.438	105.319		0.34	4461	0.38	1	southwest	0.02523	1	Lower slope (flat)	0.28	2	74	3	199	canal	816	48,520	167,308	3.13	Cần Đăng, Châu Thành District, An Giang Province, Vietnam
8f6584b3170c834	88	10.557	104.969		0.21	2078	0.20	16	east	0.01681	11	Lower slope (flat)	0.54	1	140	0	3720	stream	584	17,627	103,029	3.20	Tịnh Biên District, An Giang Province, Vietnam
8f6584d4219c26c	89	10.861	105.479		0.23	773	0.40	7	north	0.05039	1	Upper slope (flat)	0.28	0	99	3	635	canal	1,768	26,739	83,979	3.00	Sa Rài, Tân Hồng District, Dong Thap Province, Vietnam
8f658586e4e04c9	90	10.295	103.939		0.34	3432	0.25	10	north	0.04206	4	Lower slope (flat)	0.51	1	136	0	399	river	594	10,320	34,565	2.48	Cửa Dương, Phú Quốc City, Kiên Giang Province, 922221, Vietnam
8f65a225c4cc8e5	100	10.248	105.268		0.28	8068	0.39	2	southwest	0.00841	1	Lower slope (flat)	0.32	2	92	1	157	canal	2,210	41,512	104,159	3.07	Núi Sập, Thoại Sơn District, An Giang Province, Vietnam
8f65a25167b3a43	101	10.490	106.312		0.26	4441	0.30	1	southwest	0.00841	0	Lower slope (flat)	0.39	0	119	1	1460	canal	606	41,695	190,380	2.58	Tân Phước District, Tien Giang province, Vietnam
8f65a258362e361	102	10.609	106.279		0.23	1862	0.39	1	south	77.54121	0	Lower slope (warm)	0.32	1	115	3	127	canal	202	6,789	43,495	2.00	Thanh Hóa District, Long An province, Vietnam

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8f65a265d81ba74	103	10.583	105.505		0.17	238	0.44	5	northeast	0.00841	1	Lower slope (flat)	0.20	1	76	2	573	canal	1,279	43,019	145,620	3.12	843, Tân Mỹ, Thanh Bình District, Dong Thap Province, Vietnam
8f65a26eb9a90e2	106	10.673	105.536		0.32	1701	0.35	4	north	0.00840	0	Upper slope (warm)	0.33	2	103	1	420	river	1,568	29,099	71,610	3.07	Tam Nông District, Dong Thap Province, Vietnam
8f65a27093936d0	107	10.476	105.721		0.25	4680	0.42	3	south	0.05045	0	Lower slope (flat)	0.24	0	96	1	1112	canal	1,052	34,216	173,691	3.07	Cao Lanh District, Dong Thap Province, Vietnam
8f65a2a222e6a6c	110	9.802	105.641		0.23	1685	0.35	1	northwest	0.00843	1	Lower slope (flat)	0.33	0	85	2	911	canal	2,198	23,759	80,968	3.16	61, Hòa Quới, Phụng Hiệp District, Hậu Giang Province, Vietnam
8f65a2a69521581	111	9.743	105.404		0.27	2321	0.31	3	north	0.00843	1	Upper slope (flat)	0.35	0	99	1	1163	river	2,751	34,452	109,000	3.16	Quốc lộ 61, Vị Thanh, Hậu Giang Province, Vietnam
8f65a2b4232a459	112	9.696	105.570	Yes	0.37	3012	0.38	-1	north	0.00843	0	Lower slope (flat)	0.28	1	87	1	66	ditch	3,308	46,371	116,281	3.27	Phường Bình Thạnh, Long Mỹ Town, Hậu Giang Province, Vietnam
8f65a348daccda	118	10.420	104.968		0.43	1120	0.30	6	north	0.00841	3	Lower slope (flat)	0.39	0	122	3	675	river	1,466	33,515	88,685	3.07	Trị Tôn District, An Giang Province, Vietnam
8f65a3574a16500	119	10.092	105.025	Yes	0.32	1033	0.41	0	south	0.01684	0	Upper slope (flat)	0.22	0	102	3	195	water	839	19,146	76,483	3.33	Hon Dat District, Kien Giang Province, Vietnam
8f65a36e476c28	120	10.403	104.494	Yes	0.21	45	0.43	2	east	0.00841	2	Upper slope (flat)	0.25	1	83	2	294	canal	323	11,284	32,477	2.24	Ha Tien City, Kien Giang Province, KP1, Vietnam
8f65a3719320908	121	10.254	104.616	Yes	0.33	1145	0.43	3	southeast	0.00841	0	Lower slope (flat)	0.21	0	116	1	818	ditch	399	10,761	20,901	3.13	Kien Luong District, Kien Giang Province, Vietnam
8f65a3c00309571	122	9.878	105.171		0.15	91	0.32	3	south	0.00842	1	Lower slope (flat)	0.34	0	109	0	397	canal	1,651	43,828	160,547	3.06	Minh Lương, Châu Thành District, Kien Giang Province, Vietnam
8f65a3c264a8acb	123	9.837	105.234		0.33	120	0.36	-1	west	0.01685	0	Lower slope (warm)	0.24	1	101	0	241	canal	2,679	33,243	98,271	2.98	Giồng Riềng District, Kien Giang Province, Vietnam
8f65a3d31d88614	124	9.746	105.344		0.17	999	0.32	1	west	0.00843	1	Upper slope (flat)	0.32	1	95	2	86	canal	1,073	33,249	109,568	2.87	Quốc lộ 61, Gò Quao District, Kien Giang Province, Vietnam
8f65a441edac840	125	8.645	106.601	Yes	0.38	3150	0.31	10	southwest	0.04226	23	Lower slope (warm)	0.37	6	99	1	194	coastline	120	1,995	4,592	2.81	Prison Escape, Ha Huy Giap Street, Khu 5, Cồn Sơn, Cồn Dao, Cồn Đảo District, Ba Ria-Vung Tau Province, Vietnam
8f65b181069981b	146	10.965	106.430		0.45	1370	0.31	1	north	0.01679	1	Valley	0.41	1	133	2	409	river	1,878	52,045	245,318	2.17	Tam Tấn, Thái Mỹ Commune, Cù Chi District, Ho Chi Minh City, 82719, Vietnam
8f65b19350a008d	147	10.753	106.567		0.30	255	0.36	2	northwest	0.00840	1	Lower slope (flat)	0.29	2	119	0	92	stream	7,091	391,284	2,688,243	2.58	Tan Tao A Ward, Ho Chi Minh City, Vietnam
8f65b1d2ad6ecd	149	11.101	106.747		0.46	64	0.27	43	northwest	0.00839	6	Valley	0.49	2	126	2	4423	stream	1,280	54,286	276,164	2.25	Phường Hội Nghĩa, Tân Uyên Town, Binh Duong province, Vietnam
8f65b1d36665359	150	11.138	106.849		0.33	3372	0.31	56	southwest	0.04195	7	Valley	0.43	5	123	1	579	stream	1,914	27,658	98,811	2.01	Tân Thành, Bắc Tân Uyên District, Binh Duong province, Vietnam
8f65b1d52413376	151	11.179	106.657		0.33	1584	0.27	48	north	0.00839	2	Upper slope (warm)	0.51	0	127	2	2454	water	858	32,847	225,079	2.49	Chánh Phú Hòa, Ben Cat Town, Binh Duong province, Vietnam
8f65b504d8cc340	163	10.393	106.781	Yes	0.36	189	0.34	2	southwest	0.00841	1	Upper slope (flat)	0.35	2	93	1	1882	canal	1,254	24,652	73,448	3.50	Kiêng Phước, Gò Công Dong District, Tien Giang province, Vietnam
8f65b50db91659	164	10.662	106.855	Yes	0.19	1805	0.34	5	east	0.02521	1	Lower slope (flat)	0.36	2	100	0	264	river	593	24,714	118,268	2.39	Xã Phước Khánh, Nhơn Trạch District, Đồng Nai Province, 710000, Vietnam
8f65b52328b6984	165	10.510	106.651	Yes	0.26	390	0.40	5	northeast	0.00841	6	Upper slope (flat)	0.24	2	131	2	49	river	1,148	51,734	182,545	3.17	Xã Phước Đồng, Cần Đức District, Long An province, Vietnam
8f65b529648e2d4	166	10.725	106.689	Yes	0.34	1699	0.42	3	northeast	0.04201	1	Upper slope (flat)	0.23	1	119	1	5	river	16,438	1,269,686	4,648,837	2.35	Đường số 1, Bình Hưng, Bình Chánh District, Ho Chi Minh City, 70000, Vietnam
8f65b530c792976	167	10.378	106.643	Yes	0.16	213	0.35	-2	west	0.00841	0	Upper slope (flat)	0.32	0	121	1	1845	canal	2,119	88,544	239,088	3.20	Long Chánh, Gò Công Town, Tien Giang province, Vietnam
8f65b53408d4b83	168	10.336	106.529		0.17	86	0.26	1	south	0.00841	0	Lower slope (flat)	0.42	1	124	1	757	canal	1,819	36,359	163,861	3.05	12A, Bình Đông, Gò Công Tây District, Tien Giang province, 0009, Vietnam
8f65b537076dcb6	169	10.338	106.584		0.31	3353	0.26	2	northeast	0.00841	1	Lower slope (flat)	0.43	0	127	0	682	canal	4,675	49,766	173,074	3.06	ĐT.827, Vĩnh Bình, Gò Công Tây District, Tien Giang province, 0009, Vietnam
8f65b542b883534	170	10.768	107.222		0.80	134	0.29	190	northwest	0.00840	11	Upper slope (warm)	0.46	3	120	1	961	stream	1,455	30,321	108,854	2.45	Xã Xuân Mỹ, Cẩm Mỹ District, Đồng Nai Province, 810000, Vietnam
8f65b546a934b41	171	10.730	107.086		0.32	6237	0.31	46	southwest	0.01680	5	Lower slope (warm)	0.42	2	122	2	2309	river	539	12,559	97,940	2.24	Bau Can, Long Thành District, Đồng Nai Province, Vietnam
8f65b54f2b8950a	172	10.937	107.223		0.31	463	0.31	213	east	0.00840	35	Upper slope (warm)	0.45	4	122	1	783	lake	3,406	101,419	220,086	2.83	Phường Suối Tre, Long Khánh City, Đồng Nai Province, Vietnam
8f65b559e7b22c4	173	10.914	107.431		0.14	612	0.31	172	southeast	0.05038	22	Upper slope (warm)	0.44	3	136	0	1148	reservoir	1,636	44,482	119,675	3.69	Xuân Lộc District, Đồng Nai Province, Vietnam
8f65b5681b61a53	174	10.995	106.853		0.21	232	0.28	37	north	0.05876	12	Upper slope (flat)	0.44	0	131	0	275	pond	9,001	280,670	859,741	2.04	Trảng Dài Ward, Biên Hòa City, Đồng Nai Province, 76913, Vietnam
8f65b56b5a998ca	175	10.980	106.933		0.46	23653	0.32	20	northeast	0.00839	4	Lower slope (warm)	0.41	0	131	1	997	stream	2,367	151,814	684,446	2.18	Hồ Nai 3, Xã Hồ Nai 3, Trảng Bom District, Đồng Nai Province, Vietnam
8f65b572e461892	176	10.692	106.936		0.25	1365	0.26	24	southwest	0.06722	4	Upper slope (flat)	0.48	1	130	0	3185	river	2,413	52,805	177,718	1.95	Nguyễn Văn Cừ, Xã Phước An, Nhơn Trạch District, Đồng Nai Province, Vietnam
8f65b57ac60164a	177	10.831	106.971		0.20	1842	0.29	33	south	0.02520	2	Upper slope (flat)	0.47	2	129	0	821	reservoir	1,356	58,444	217,091	2.34	An Phuoc, Long Thành District, Đồng Nai Province, 8464, Vietnam
8f65b5adacb16b0	179	10.302	106.632		0.25	1363	0.29	2	northwest	0.12619	1	Upper slope (warm)	0.40	1	127	1	292	canal	3,493	35,068	202,787	3.28	Hòa Phú, Gò Công Tây District, Tien Giang province, Vietnam
8f65b5af5351094	180	10.189	106.686		0.22	4297	0.38	-3	south	0.49652	0	Upper slope (flat)	0.26	2	124	0	1773	canal	5,213	36,939	95,720	3.30	Bình Đại, Bình Đại District, Bến Tre Province, Vietnam
8f69300b306ccf5	189	13.835	109.080		0.17	52	0.26	48	north	0.01661	7	Valley	0.50	6	136	3	2303	river	1,674	44,649	223,809	1.82	An Nhơn, An Nhơn District, Bình Định Province, 5800, Vietnam
8f693215ec11085	192	13.001	108.868		0.27	386	0.33	211	east	0.00833	39	Upper slope (warm)	0.40	3	139	0	1677	river	292	6,171	21,756	3.68	Buôn Bàu, Sông Hinh District, Phu Yen province, Vietnam

Waste Sites Detected in Study Provinces

ID	Number	Latitude	Longitude	High Risk	Risk Score	Area (m^2)	Soil Clay Fraction	Elevation	Drainage Direction	Upstream Drainage Area (km^2)	Height Above Nearest Drainage (m)	Landform Type	Soil Sand Fraction	Slope (degrees)	Fine Earth Density (kg / m^3)	Soil Great Group	Distance to Waterway (m)	Nearest Water Type	Population (1 km)	Population (5 km)	Population (10 km)	Wind Speed (m/s)	Place Name
8f6932a464a14c2	193	13.273	109.217		0.25	456	0.33	45	northeast	0.05827	9	Valley	0.39	4	127	2	3664	river	479	24,834	90,300	3.45	Chi Thanh Town, Tuy An District, Phu Yen province, Vietnam
8f6932cc4486855	194	12.845	108.481		0.23	5249	0.29	451	southeast	0.00834	17	Upper slope (warm)	0.45	2	138	0	400	river	381	21,422	79,949	4.14	Ea Kar District, Đắk Lắk province, Vietnam