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2021 CONSTRUCTION MONITORING

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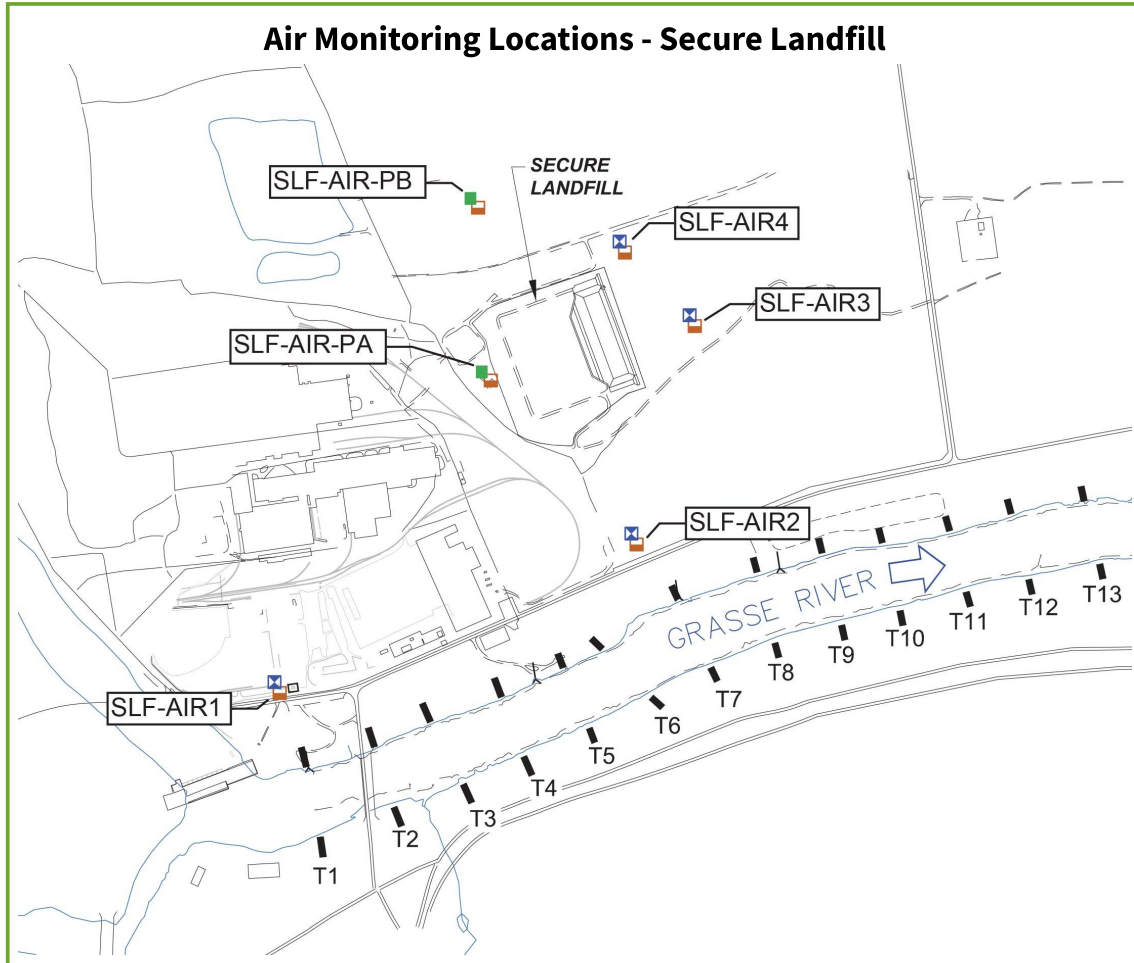
2021

Environmental monitoring for the 2021 construction includes water and air. Air monitoring is being performed around the secure landfill, Route 131 Staging Area, Haverstock Road Staging Area, and Alcoa East Plant dock during construction at those locations. Water monitoring is being performed in the river and at water intakes. These monitoring activities and results for **April 2021** are summarized below. **(Additional 2021 Lab Results: Current Month ([monitoringConstruction2021.html](#)) | April ([monitoringConstruction2021_April.html](#)) | May ([monitoringConstruction2021_May.html](#)) | June ([monitoringConstruction2021_June.html](#)) | July ([monitoringConstruction2021_July.html](#)) | August ([monitoringConstruction2021_August.html](#)) | September ([monitoringConstruction2021_September.html](#)))**

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Air Monitoring - 2021 Secure Landfill Construction and Operation

Program includes particulate monitoring using real-time meters for particulates (or dust) and volatile organic compounds (VOCs) and sampling for PCB analytical testing. Corrective action levels have been established based on levels that are safe for the community for particulates, VOCs, and PCBs. The actual monitoring results are compared to the corrective action levels to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

		Monitoring Station ID (see figure)						
Date	Action Level Check	SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	Notes
April 28	All Below	0.0203	0.0284	0.0186	0.027	0.0325	0.0192	--
April 29	All Below	0.0219	0.0312	0.0138	0.0326	0.0143	0.0285	--
April 30	All Below	0.0251	0.0485	0.0203	0.0431	0.039	0.0408	--

NA = Data not collected in accordance with plan
 Particulates (milligrams per cubic meter)

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2021 Air Volatile Organic Compound Data (Corrective Action Level = 25 ppm above upwind location)

		Monitoring Station ID (see figure)						
Date	Action Level Check	SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	Notes
April 28	All Below	0.0039	0	0.0001	0.0957	0.0812	0.0192	--
April 29	All Below	0.0202	0.0001	0	0.1142	0.0455	0.0285	--
April 30	All Below	0.0418	0.0367	0.004	0.1144	0.0014	0.0408	--

NA = Data not collected in accordance with plan

Volatile Organic Compounds (VOCs parts per million)

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2021 Air PCB Data (Corrective Action Level = 0.100 microgram per cubic meter)

		Monitoring Station ID (see figure)						
Date	Action Level Check	SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	Notes
April 28	All Below	0.000250	0.000510	0.000320	0.000230	Below detectable levels	Below detectable levels	- -
April 29	All Below	0.000410	0.000380	0.000350	0.000260	Below detectable levels	Below detectable levels	- -
April 30	All Below	0.000340	0.000470	0.000420	0.000360	Below detectable levels	Below detectable levels	- -

NA = Analysis not required in accordance with plan

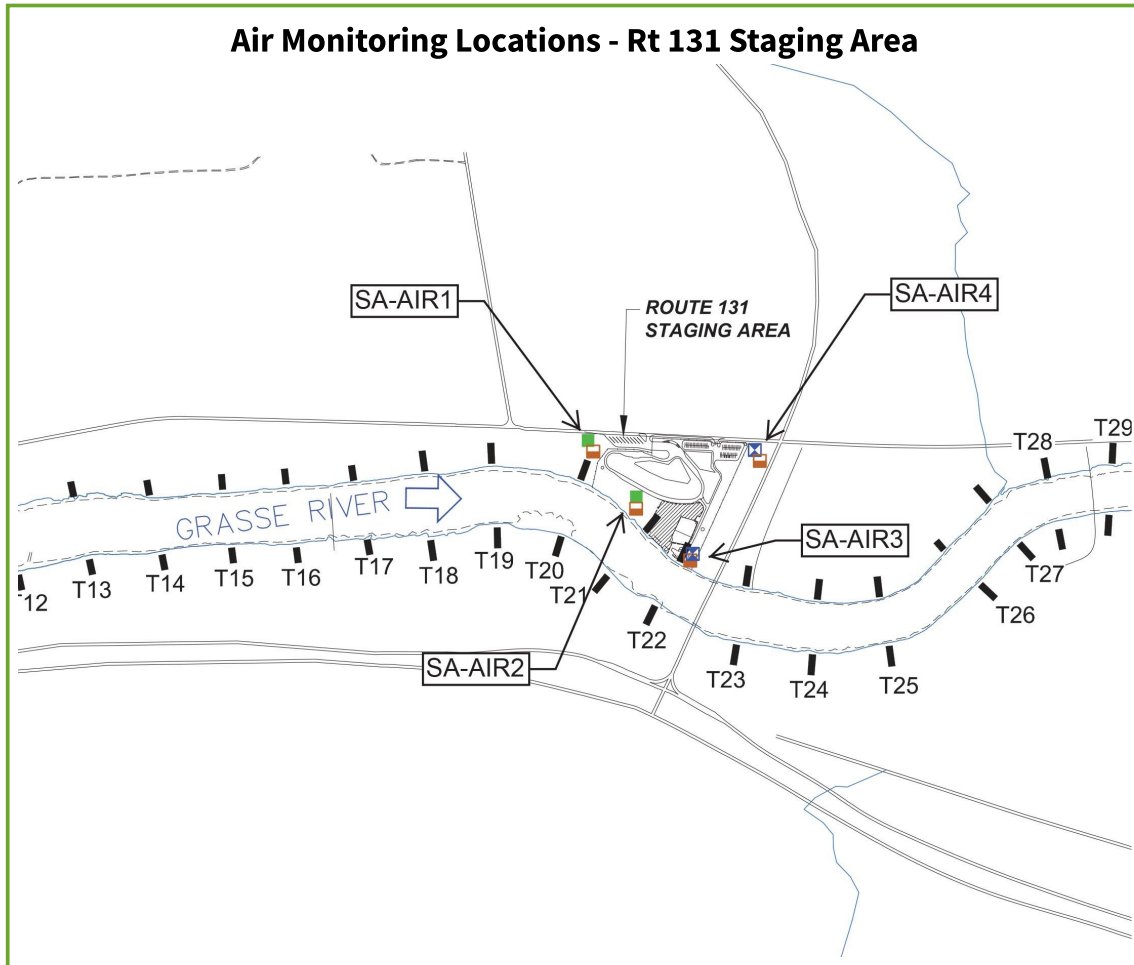
Total PCBs (micrograms per cubic meter)

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Air Monitoring - 2021 Route 131 Staging Area

Program includes particulate monitoring using real-time meters for particulates (or dust) and volatile organic compounds (VOCs) and sampling for PCB analytical testing during handling of potential PCB-containing material. Corrective action levels have been established based on levels that are safe for the community for particulates, VOCs, and PCBs. The actual

monitoring results are compared to the corrective action levels to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

Date	Action Level Check	Monitoring Station ID (see figure)				Notes
		SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	
April 6	All Below	0.006	0.007	0.0214	0.0155	--
April 7	All Below	0.0173	0.0103	0.0228	0.0169	--
April 8	All Below	0.0151	0.0076	0.0393	0.0353	--
April 9	All Below	0.014	0.007	0.0391	0.0323	--
April 10	All Below	0.0172	0.0053	0.0218	0.015	--
April 11	All Below	0.043	0.032	0.0416	0.0362	--
April 12	All Below	0.0086	0.0148	0.0141	0.0104	--
April 13	All Below	0.0034	0.0148	0.0131	0.0078	--
April 14	All Below	0.0076	0.0134	0.02	0.0149	--
April 15	All Below	0.0098	0.0148	0.0209	0.0143	--

Date	Action Level Check	Monitoring Station ID (see figure)				Notes
		SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	
April 16	All Below	0.0318	0.0291	0.0437	0.0379	--
April 17	All Below	0.009	0.0151	0.0231	0.0148	--
April 18	All Below	0.0192	0.0221	0.0296	0.024	--
April 19	All Below	0.015	0.0197	0.0246	0.0193	--
April 20	All Below	0.0232	0.0209	0.0261	0.0235	--
April 21	All Below	0.0012	0.0123	0.0166	0.013	--
April 22	All Below	0.001	0.0122	0.02	0.0087	--
April 23	All Below	0.0074	0.0184	0.024	0.0162	--
April 24	All Below	0.0221	0.0292	0.0344	0.0334	--
April 25	All Below	0.0275	0.0272	0.0346	0.0325	--
April 26	All Below	0.0194	0.0234	0.0298	0.0261	--
April 27	All Below	0.0175	0.0166	0.047	0.0212	--
April 28	All Below	0.0114	0.0232	0.0794	0.0311	--
April 29	All Below	0.0282	0.0265	0.0256	0.0239	--
April 30	All Below	0.0337	0.0273	0.0401	0.0349	--

NA = Data not collected in accordance with plan
 Particulates (milligrams per cubic meter)

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2021 Air Volatile Organic Compound Data (Corrective Action Level = 25 ppm above upwind location)

Date	Action Level Check	Monitoring Station ID (see figure)				Notes
		SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	
April 27	All Below	0	0	0.0174	0.0392	--
April 28	All Below	0.0244	0.0189	0.1221	0.0483	--
April 29	All Below	0.0052	0.0276	0	0.0419	--
April 30	All Below	0.0004	0.0029	0	0	--

NA = Data not collected in accordance with plan
 Volatile Organic Compounds (VOCs parts per million)

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2021 Air PCB Data (Corrective Action Level = 0.100 microgram per cubic meter)

Monitoring Station ID (see figure)	

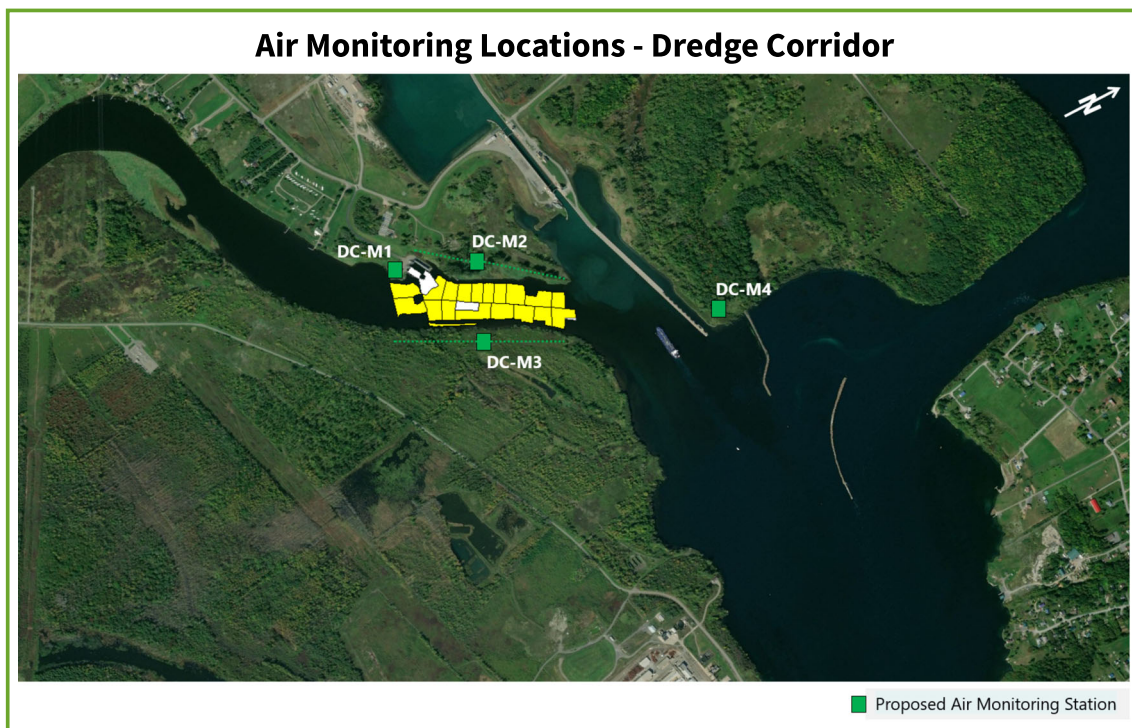
	Action Level	Monitoring Station ID (see figure)				
Date	Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
Date	Action Level	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
April 28	All Below	Below detectable levels	Below detectable levels	0.000170	0.000200	- -
April 29	All Below	Below detectable levels	Below detectable levels	0.000390	0.000390	- -
April 30	All Below	Below detectable levels	Below detectable levels	0.000480	0.000350	- -

NA = Analysis not required in accordance with plan
 Total PCBs (micrograms per cubic meter)

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Air Monitoring - 2021 Dredge Mobile River Stations

Program includes sampling for PCB analytical testing. The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.



2021 Air PCB Data (Corrective Action Level = 0.100 microgram per cubic meter)

		Monitoring Station ID (see figure)				
Date	Action Level Check	DC-M1	DC-M2	DC-M3	DC-M4	Notes
April 27	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 28	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 29	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 30	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -

NA = Analysis not required in accordance with plan

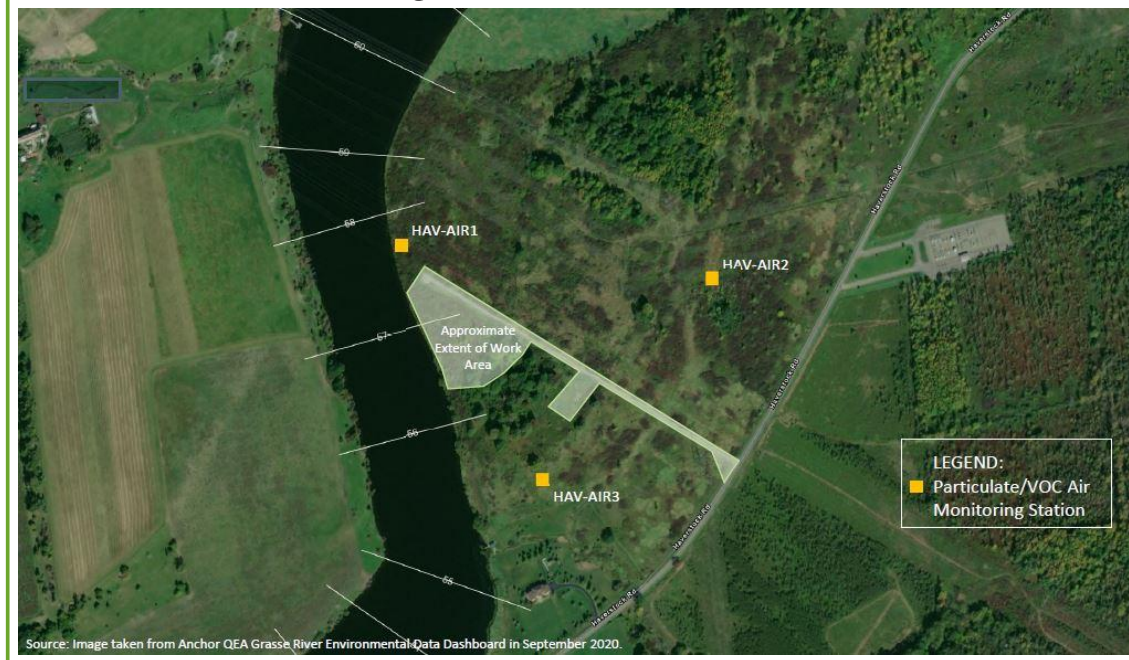
Total PCBs (micrograms per cubic meter)

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Air Monitoring - 2021 Haverstock Road Support Area

Program includes particulate monitoring using real-time meters for particulates (or dust). The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Air Monitoring Locations - Haverstock Road Area



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

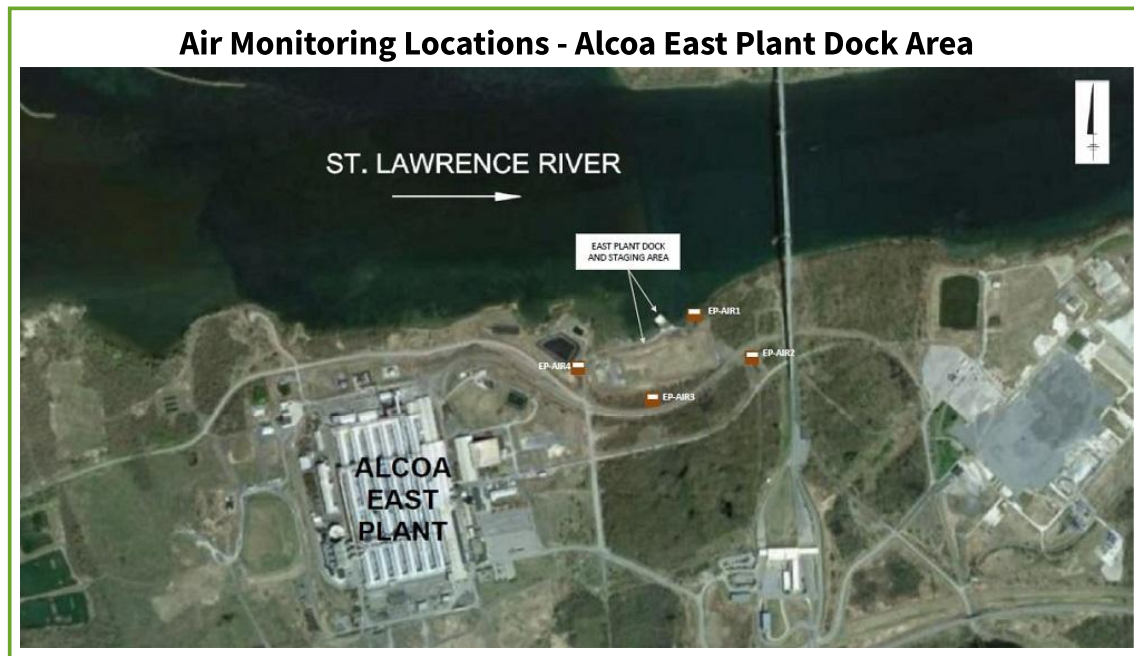
Date	Action Level Check	Monitoring Station ID (see figure)			Notes
		HAV-AIR1	HAV-AIR2	HAV-AIR3	
April 22	All Below	0.0054	0.0087	0.0057	--
April 23	All Below	0.0041	0.0133	0.0106	--
April 24	All Below	0.0222	0.0295	0.0238	--
April 25	All Below	0.0343	0.0265	0.0244	--
April 26	All Below	0.033	0.0235	0.0211	--
April 27	All Below	0.011	0.03	0.005	--
April 28	All Below	0.0089	0.0188	0.0072	--
April 29	All Below	0.0148	0.0298	0.0237	--
April 30	All Below	0.0171	0.0368	0.029	--

NA = Data not collected in accordance with plan
 Particulates (milligrams per cubic meter)

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Air Monitoring - 2021 Alcoa East Plant Dock Area

Program includes particulate monitoring using real-time meters for particulates (or dust). The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below. Monitoring is only performed when there is active work at this area.



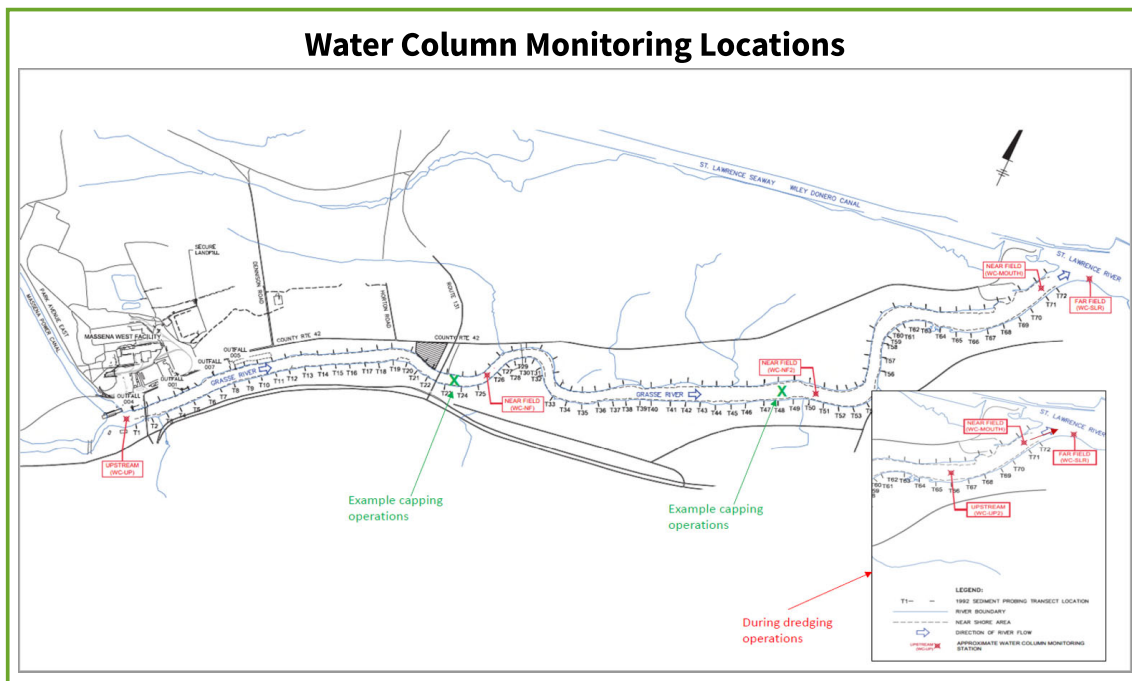
2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

Date	Action Level Check	Monitoring Station ID (see figure)				Notes
		EP-AIR1	EP-AIR2	EP-AIR3	EP-AIR4	
April 15	All Below	0.0209	0.0268	0.0169	0.01033	--
April 16	All Below	0.031	0.0303	0.0323	0.042	--
April 17	All Below	0.0144	0.0131	0.0142	0.0181	--
April 18	All Below	0.0216	0.0206	0.0224	0.0272	--
April 19	All Below	0.0177	0.0167	0.0174	0.0193	--
April 20	All Below	0.0293	0.0197	0.0152	0.0163	--
April 21	All Below	0.0231	0.0117	0.0126	0.0137	--
April 22	All Below	0.0117	0.0075	0.0083	0.0123	--
April 23	All Below	0.0089	0.0115	0.0112	0.0143	--
April 24	All Below	0.0242	0.025	0.0263	0.0293	--
April 25	All Below	0.0492	0.025	0.0257	0.0439	--
April 26	All Below	0	0.0218	0.0252	0.0285	--

NA = Data not collected in accordance with plan
 Particulates (milligrams per cubic meter)

Water Monitoring - 2021 River Remediation

Program includes turbidity monitoring using real-time meters for solids and PCB analytical testing at the water intake locations and total suspended solids (TSS) and PCB analytical testing at the river locations. Corrective action levels have been established based on levels that are safe for the community for both solids and PCBs. The actual monitoring results will be compared to the corrective action levels to determine if adjustments in construction are needed. The water locations and tabulated results are provided below.



2021 Water Column Total Suspended Solids Data (Corrective Action Level = 100 mg/L above WC-UP Level at WC-SLR)

		Monitoring Station ID (see figure)					
Date	Action Level Check	WC-UP1	WC-NF2	WC-NF	WC-MOUTH	WC-SLR	Notes
April 6	All Below	Below detectable levels	NA	Below detectable levels	Below detectable levels	Below detectable levels	- -

		Monitoring Station ID (see figure)					
Date	Action	WC-UP1	WC-NF2	WC-NF	WC-MOUTH	WC-SLR	Notes
	Level						
April 7	All Below	Below detectable levels	NA	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 8	All Below	Below detectable levels	NA	5.1	Below detectable levels	Below detectable levels	- -
April 9	All Below	Below detectable levels	NA	Below detectable levels	5.8	Below detectable levels	- -
April 10	All Below	Below detectable levels	NA	Below detectable levels	5.8	5.0	- -
April 12	All Below	Below detectable levels	NA	8.1	8.3	8.7	- -
April 13	All Below	Below detectable levels	NA	10	6.5	5.1	- -
April 14	All Below	Below detectable levels	NA	6.6	7.6	Below detectable levels	- -
April 15	All Below	Below detectable levels	Below detectable levels	Below detectable levels	NA	Below detectable levels	- -
April 16	All Below	Below detectable levels	Below detectable levels	5.0	NA	5.5	- -
April 17	All Below	Below detectable levels	8.0	7.8	NA	Below detectable levels	- -
April 19	All Below	11	7.1	7.5	NA	Below detectable levels	- -
April 20	All Below	Below detectable levels	12	6.7	NA	Below detectable levels	- -
April 21	All Below	Below detectable levels	5.9	7.3	NA	7.0	- -
April 22	All Below	Below detectable levels	11	8.3	NA	7.5	- -

		Monitoring Station ID (see figure)					
Date	Action Level	WC-UP1	WC-NF2	WC-NF	WC-MOUTH	WC-SLR	Notes
	Check						
April 23	All Below	Below detectable levels	14	6.7	NA	6.5	- -
April 24	All Below	Below detectable levels	5.8	7.0	NA	6.2	- -
April 26	All Below	Below detectable levels	NA	Below detectable levels	8.0	5.8	- -
April 27	All Below	Below detectable levels	27	6.6	NA	7.6	- -
April 28	All Below	Below detectable levels	5.2	7.1	NA	7.2	- -
April 29	All Below	Below detectable levels	14	9.3	NA	7.0	- -
April 30	All Below	Below detectable levels	16	6.3	NA	5.4	- -

Total Suspended Solids (TSS; milligrams per liter)

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2021 Water Column PCB Data (Corrective Action Level at WC-SLR = 0.5 microgram per liter)

		Monitoring Station ID (see figure)					
Date	Action Level	WC-UP2	WC-NF2	WC-NF	WC-MOUTH	WC-SLR	Notes
	Check						
April 6	All Below	NA	NA	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 7	All Below	NA	NA	Below detectable levels	Below detectable levels	Below detectable levels	- -

		Monitoring Station ID (see figure)					
Date	Action	WC-UP2	WC-NF2	WC-NF	WC-MOUTH	WC-SLR	Notes
	Level						
April 8	All Below	NA	NA	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 9	All Below	NA	NA	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 10	All Below	NA	NA	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 12	All Below	NA	NA	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 13	All Below	NA	NA	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 14	All Below	NA	NA	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 15	All Below	NA	Below detectable levels	Below detectable levels	NA	Below detectable levels	- -
April 16	All Below	NA	Below detectable levels	Below detectable levels	NA	Below detectable levels	- -
April 17	All Below	NA	Below detectable levels	Below detectable levels	NA	Below detectable levels	- -
April 19	All Below	NA	Below detectable levels	Below detectable levels	NA	Below detectable levels	- -
April 20	All Below	NA	Below detectable levels	Below detectable levels	NA	Below detectable levels	- -
April 21	All Below	NA	Below detectable levels	Below detectable levels	NA	Below detectable levels	- -
April 22	All Below	NA	Below detectable levels	Below detectable levels	NA	Below detectable levels	- -
April 23	All Below	NA	Below detectable levels	Below detectable levels	NA	Below detectable levels	- -

		Monitoring Station ID (see figure)					
Date	Action Level	WC-UP2	WC-NF2	WC-NF	WC-MOUTH	WC-SLR	Notes
	Check						
April 24	All Below	NA	Below detectable levels	Below detectable levels	NA	Below detectable levels	- -
April 26	All Below	NA	NA	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 27	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
April 28	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
April 30	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -

Total PCBs (micrograms per liter)

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2021 Water Intake Turbidity Data (Corrective Action Level = 25 NTU above Baseline Level)

		Monitoring Station ID (see figure)			
Date	Action Level Check	IN-AE-RAW	IN-SRMT-RAW	IN-SRMT-FIL	Notes
April 7	All Below	0.8	1.1	0.2	--
April 8	All Below	1.1	1.3	0.2	--
April 9	All Below	1.0	1.1	0.2	--
April 10	All Below	1.1	1.1	0.1	--

		Monitoring Station ID (see figure)			
Date	Action Level Check	IN-AE-RAW	IN-SRMT-RAW	IN-SRMT-FIL	Notes
April 12	All Below	1.1	1.9	0.1	--
April 13	All Below	1.3	0.9	0.2	--
April 14	All Below	2.1	1.0	0.2	--
April 15	All Below	0.9	1.0	0.3	--
April 16	All Below	0.8	1.1	0.1	--
April 17	All Below	0.8	1.1	0.1	--
April 19	All Below	0.7	1.1	0.1	--
April 20	All Below	0.7	0.7	0.1	--
April 21	All Below	0.8	0.7	0.2	--
April 22	All Below	0.8	0.6	0.2	--
April 23	All Below	1.3	0.9	0.0	--
April 24	All Below	0.9	0.8	0.1	--
April 26	All Below	0.8	0.7	0.3	--
April 27	All Below	0.3	0.7	0.1	--
April 28	All Below	1.2	1.7	0.1	--
April 29	All Below	0.7	0.9	0.2	--
April 30	All Below	0.8	0.9	0.1	--

Turbidity (Nephelometric Turbidity Unit)

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2021 Water Intake PCB Data (Corrective Action Level at WC-SLR = 0.5 microgram per liter)

		Monitoring Station ID (see figure)			
Date	Action Level Check	WC-AW-RAW	WC-SRMT-RAW	WC-SRMT-FIL	Notes
April 7	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 8	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 9	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 10	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 12	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 13	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -

		Monitoring Station ID (see figure)			
Date	Action Level Check	WC-AW-RAW	WC-SRMT-RAW	WC-SRMT-FIL	Notes
April 14	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 15	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 16	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 17	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 19	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 20	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 21	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 22	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 23	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 24	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 26	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 27	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 28	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -
April 30	All Below	Below detectable levels	Below detectable levels	Below detectable levels	- -

Total PCBs (micrograms per liter)

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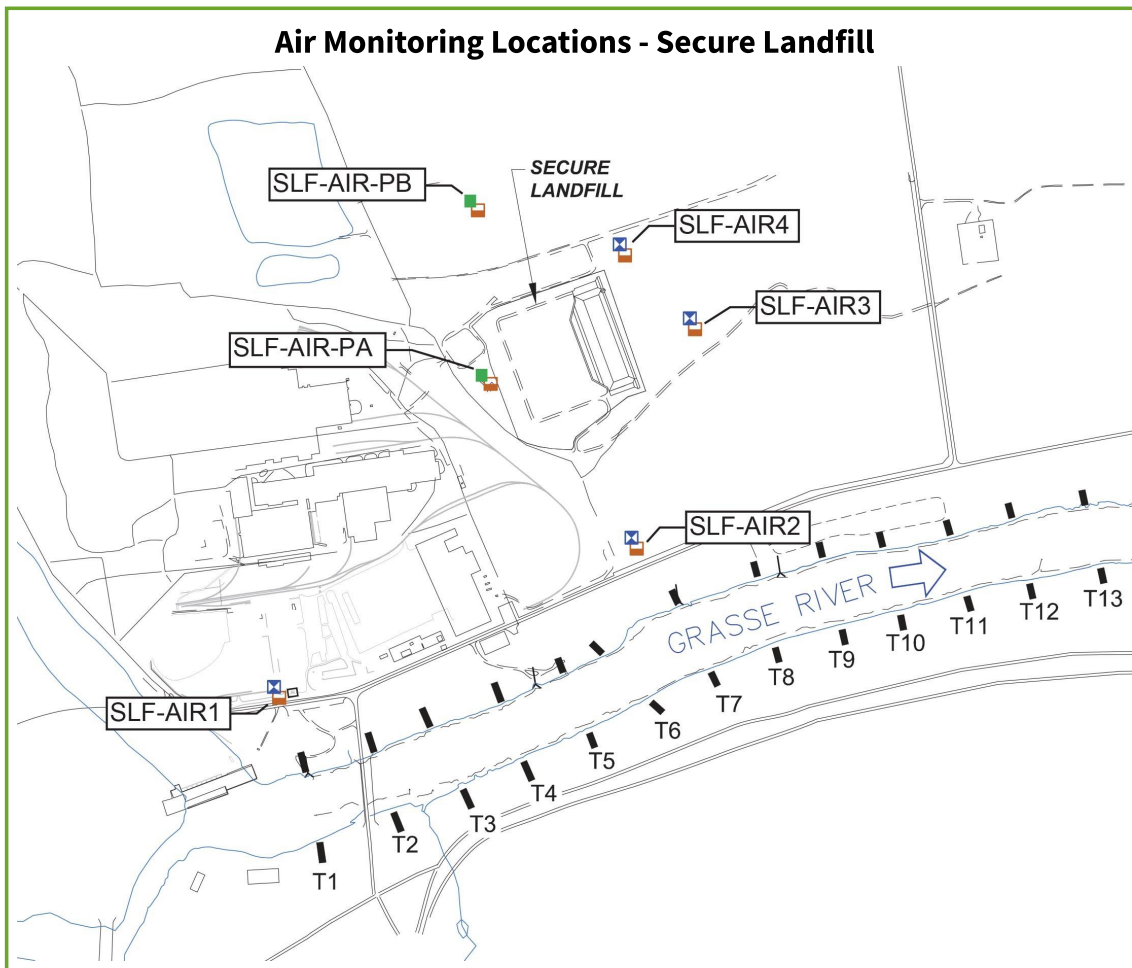
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Air Monitoring - 2021 Secure Landfill Construction and Operation

Program includes particulate monitoring using real-time meters for particulates (or dust) and volatile organic compounds (VOCs) and sampling for PCB analytical testing. Corrective action levels have been established based on levels that are safe for the community for particulates, VOCs, and PCBs. The actual monitoring results are compared to the corrective action levels to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

Date	Action Level Check	Monitoring Station ID (see figure)						Notes
		SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	
May 1	All Below	0.0098	0.0134	0.016	0.0134	0.0132	0.012	--
May 2	All Below	0.0048	0.01	0.009	0.0084	0.0065	0.003	--
May 3	All Below	0.0096	0.0148	0.009	0.0175	NA	NA	--
May 4	All Below	0.0143	0.0104	0.0091	0.0098	0.011	0.009	--
May 5	All Below	0.0152	0.035	0.0296	0.0379	0.0324	0.0201	--
May 6	All Below	0.0172	0.0301	0.0172	0.0364	0.0246	0.0179	--
May 7	All Below	0.0048	0.0128	0.0136	0.0089	0.012	0.0046	--

		Monitoring Station ID (see figure)						
Date	Action Level	SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-	Notes
	Check						PB	
May 8	All Below	0.0069	0.009	0.0082	0.0098	0.012	0.0043	--
May 9	All Below	0.0069	0.0092	0.008	0.0107	0.0087	0.0045	--
May 10	All Below	0.0187	0.0183	0.008	0.0258	NA	NA	--
May 11	All Below	0.0069	0.0097	0.008	0.0108	0.0086	0.0075	--
May 12	All Below	0.003	0.0047	0.0022	0.0192	0.0041	0.0078	--
May 13	All Below	0.0116	0.0172	0	0.0148	0.0083	0.0068	--
May 14	All Below	0.0086	0.0097	0	0.0681	0.011	0.0063	--
May 15	All Below	0.0068	0.0092	0	0.0154	0.01	0.0062	--
May 16	All Below	0.0133	0.0158	0	0.0209	0.01	0.0098	--
May 17	All Below	0.019	0.0178	0.0156	0.0212	NA	NA	--
May 18	All Below	0.2623	0.0184	0.0142	0.0204	0.0151	0.009	SLF-AIR1 level not related to field activities
May 19	All Below	0.0321	0.0597	0.0479	0.0595	0.0573	0.0402	--
May 20	All Below	0.0334	0.0339	0.04	0.0555	0.0537	0.0397	--
May 21	All Below	0.0189	0.0425	0.0355	0.0449	0.0403	0.0292	--
May 22	All Below	0.0463	0.0323	0.025	0.033	0.0281	0.0221	--
May 23	All Below	0.5294	0.0291	0.023	0.0364	0.0276	0.0264	SLF-AIR1 level not related to field activities
May 24	All Below	0.0146	0.0197	0.018	0.0234	NA	NA	--
May 25	All Below	0.0192	0.0245	0.0128	0.0151	0.0145	0.0136	--
May 26	All Below	0.024	0.0354	0.0307	0.0392	0.034	0.0286	--
May 27	All Below	0.0255	0.0383	0.029	0.0431	0.034	0.0306	--
May 28	All Below	0.01	0.007	0.0073	0.0066	0.0059	0.005	--

		Monitoring Station ID (see figure)						
Date	Action Level Check	SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	Notes
May 29	All Below	0.0163	0.0188	0.0124	0.0328	0.0118	0.02	--
May 30	All Below	0.0181	0.027	0.023	0.0227	0.0305	0.0186	--
May 31	All Below	0.0137	0.0167	0.016	0.0137	NA	NA	--

NA = Data not collected in accordance with plan

Particulates (milligrams per cubic meter)

[Return to top for lab results from previous months](#)

2021 Air Volatile Organic Compound Data (Corrective Action Level = 25 ppm above upwind location)

		Monitoring Station ID (see figure)						
Date	Action Level Check	SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	Notes
May 1	All Below	0.0487	0.1412	0.1857	0.2642	0.0021	0.012	--
May 2	All Below	0.0395	0	0.0043	0.3006	0	0.003	--
May 3	All Below	0.048	0.0094	0.0	0.2088	NA	NA	--
May 4	All Below	0.009	0.0946	0.0178	0.1246	0.0002	0.009	--
May 5	All Below	0.0018	0.0456	0.0093	0.0509	0	0.0201	--
May 6	All Below	0.0117	0.0003	0.0557	0.1066	0.0108	0.0179	--
May 7	All Below	0.0053	0.0212	0.0416	0.1092	0.0277	0.0046	--
May 8	All Below	0.0017	0.002	0.0006	0.0405	0.0723	0.0043	--
May 9	All Below	0.0001	0	0	0	0.0542	0.0045	--
May 10	All Below	0.0057	0	0	0	NA	NA	--
May 11	All Below	0.0048	0.0089	0.0027	0.0465	0.016	0.0075	--
May 12	All Below	0.009	0.0023	0.007	0.0519	0.0	0.0078	--
May 13	All Below	0.0148	0.0395	0.0762	0.1002	0.0006	0.0068	--
May 14	All Below	0.0049	0.027	0.0696	0.1052	0.0112	0.0063	--
May 15	All Below	0.0112	0	0.036	0	0.008	0.0062	--
May 16	All Below	0.0114	0	0.0406	0	0.0002	0.0098	--
May 17	All Below	0.0212	0.0538	0	0.0954	NA	NA	--
May 18	All Below	0.0214	0.0473	0.0031	0.0865	0.0004	0.009	--
May 19	All Below	0.0345	0.0846	0.0485	0.102	0	0.0402	--
May 20	All Below	0.0182	0.0101	0.0271	0.0511	0.1121	0.0397	--
May 21	All Below	0.0353	0.0211	0	0.0588	0.0699	0.0292	--
May 22	All Below	0.0329	0.0266	0	0.0642	0.0379	0.0221	--
May 23	All Below	0.0236	0.0264	0	0.1398	0	0.0264	--
May 24	All Below	0.0218	0.0765	0.1215	0.3948	NA	NA	--

		Monitoring Station ID (see figure)						
Date	Action Level Check	SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	Notes
May 25	All Below	0.0136	0.0549	0.0338	0.3965	0	0.0136	--
May 26	All Below	0.0253	0.0099	0.0001	0.2379	0	0.0286	--
May 27	All Below	0.0529	0.0945	0.0365	0.2874	0	0.0306	--
May 28	All Below	0.0024	0.0929	0.055	0.5871	0	0.005	--
May 29	All Below	0.0002	0.1362	0.0713	0.7259	0	0.02	--
May 30	All Below	0	0.1213	0.0446	0.7922	0	0.0186	--
May 31	All Below	0	0.1008	0.0208	0	NA	NA	--

NA = Data not collected in accordance with plan

Volatile Organic Compounds (VOCs parts per million)

Return to top for lab results from previous months

2021 Air PCB Data (Corrective Action Level = 0.100 microgram per cubic meter)

		Monitoring Station ID (see figure)						
Date	Action Level Check	SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	Notes
May 1	All Below	0.000110	0.000200	0.000110	0.000090	NA	NA	- -
May 2	All Below	0.000110	0.000380	0.000250	0.000100	Below detectable levels	Below detectable levels	- -
May 3	All Below	0.000230	0.000630	0.000300	0.000250	NA	NA	- -
May 4	All Below	0.000170	0.000190	0.000290	0.000170	Below detectable levels	NA	- -
May 5	All Below	0.000270	0.000300	Below detectable levels	0.000190	Below detectable levels	Below detectable levels	- -
May 6	All Below	0.000260	0.000270	0.000230	0.000180	NA	NA	- -
May 7	All Below	0.000170	0.000290	0.000240	0.000190	Below detectable levels	Below detectable levels	- -
May 8	All Below	0.000690	0.000360	0.000360	0.000730	Below detectable levels	Below detectable levels	- -
May 9	All Below	0.000210	0.000410	0.000300	0.000140	Below detectable levels	Below detectable levels	- -
May 10	All Below	0.000210	0.000410	0.000280	0.000150	NA	NA	- -

		Monitoring Station ID (see figure)						
Date	Action Level Check	SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	Notes
May 11	All Below	0.000150	0.000600	0.000360	0.000170	Below detectable levels	Below detectable levels	- -
May 12	All Below	0.000100	0.000380	0.000290	0.000120	NA	NA	- -
May 13	All Below	0.000240	Below detectable levels	0.000400	0.000320	Below detectable levels	Below detectable levels	- -
May 14	All Below	0.000300	0.000410	0.000360	0.000320	Below detectable levels	Below detectable levels	- -
May 15	All Below	0.000140	0.000720	0.000340	0.000320	Below detectable levels	Below detectable levels	- -
May 16	All Below	0.000170	0.000680	0.000290	0.000300	Below detectable levels	Below detectable levels	- -
May 17	All Below	0.000330	0.000340	0.000270	0.000190	NA	NA	- -
May 18	All Below	0.000300	0.000670	0.000370	0.000330	Below detectable levels	Below detectable levels	- -
May 19	All Below	0.000500	0.000630	0.000510	0.000480	Below detectable levels	Below detectable levels	- -
May 20	All Below	0.000390	0.000630	Below detectable levels	0.000620	Below detectable levels	Below detectable levels	- -
May 21	All Below	0.000740	0.000670	Below detectable levels	0.000500	Below detectable levels	Below detectable levels	- -
May 22	All Below	0.000360	0.000990	0.000690	0.000610	NA	NA	- -
May 23	All Below	0.000330	NA	0.001210	0.000560	NA	NA	- -
May 24	All Below	0.000180	0.000230	Below detectable levels	Below detectable levels	NA	NA	- -
May 25	All Below	0.000350	0.000310	Below detectable levels	0.000230	Below detectable levels	Below detectable levels	- -
May 26	All Below	0.000260	0.000700	0.000500	0.000470	NA	NA	- -

		Monitoring Station ID (see figure)						
Date	Action Level Check	SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	Notes
May 27	All Below	0.000260	0.000720	0.000290	0.000590	NA	NA	- -
May 28	All Below	0.000170	0.000130	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 29	All Below	0.000210	0.000280	0.000150	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 30	All Below	0.000320	0.000230	Below detectable levels	0.000190	Below detectable levels	Below detectable levels	- -

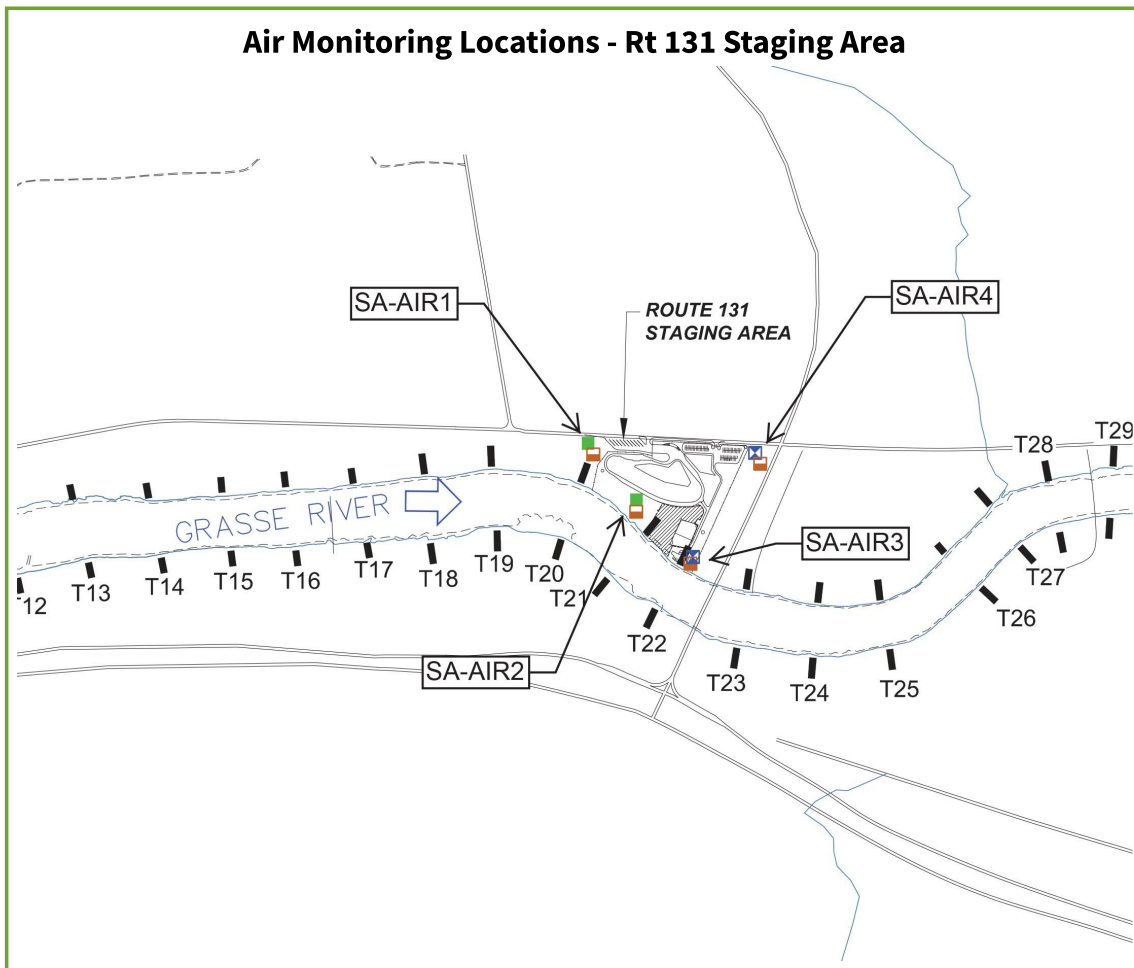
NA = Analysis not required in accordance with plan

Total PCBs (micrograms per cubic meter)

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Air Monitoring - 2021 Route 131 Staging Area

Program includes particulate monitoring using real-time meters for particulates (or dust) and volatile organic compounds (VOCs) and sampling for PCB analytical testing during handling of potential PCB-containing material. Corrective action levels have been established based on levels that are safe for the community for particulates, VOCs, and PCBs. The actual monitoring results are compared to the corrective action levels to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

Date	Action Level Check	Monitoring Station ID (see figure)				Notes
		SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	
May 1	See notes	0.0132	0.0125	0.1535	0.0119	SA-AIR3 level due to steam release, operations reviewed and adjusted.
May 2	All Below	0.0069	0.0064	0.0467	0.0079	--
May 3	All Below	0.0108	0.0079	0.021	0.0105	--
May 4	All Below	0.0077	0.0084	0.0095	0.008	--
May 5	All Below	0.0261	0.0156	0.0311	0.0286	--
May 6	All Below	0.0255	0.0174	0.0566	0.0263	--
May 7	All Below	0.0065	0.0079	0.026	0.1025	SA-AIR4 levels not related to field activities.

		Monitoring Station ID (see figure)				
Date	Action Level	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
	Check					
May 8	All Below	0.0091	0.0067	0.0104	0.0079	--
May 9	All Below	0.012	0.0085	0.0929	0.0077	--
May 10	All Below	0.0093	0.008	0.0097	0.0091	--
May 11	All Below	0.012	0.007	0.0224	0.0152	--
May 12	All Below	0.009	0.0083	0.0384	0.0102	--
May 13	All Below	0.0102	0.0095	0.0278	0.0108	--
May 14	All Below	0.0228	0.0072	0.014	0.026	--
May 15	All Below	0.0153	0.0076	0.0643	0.0246	--
May 16	All Below	0.0163	0.0086	0.0132	0.0173	--
May 17	All Below	0.0199	0.0123	0.0213	0.0135	--
May 18	All Below	0.0274	0.0089	0.0151	0.0147	--
May 19	All Below	0.0364	0.0286	0.0416	0.0372	--
May 20	All Below	0.0335	0.0231	0.0346	0.0335	--
May 21	All Below	0.0359	0.0197	0.0322	0.0311	--
May 22	All Below	0.0364	0.0154	0.0266	0.0338	--
May 23	All Below	0.0352	0.0155	0.0262	0.0314	--
May 24	All Below	0.024	0.0094	0.0469	0.0677	--
May 25	All Below	0.0163	0.018	0.0112	0.0209	--
May 26	All Below	0.0374	0.0192	0.0273	0.0314	--
May 27	All Below	0.0485	0.0196	0.0526	0.0511	--
May 28	All Below	0.0236	0.0083	0.0212	0.0049	--
May 29	All Below	0.0131	0.0118	0.0293	0.0359	--

		Monitoring Station ID (see figure)				
Date	Action Level Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
May 30	All Below	0.02	0.0171	0.022	0.0205	--
May 31	All Below	0.0125	0.0094	0.0262	0.0363	--

NA = Data not collected in accordance with plan
 Particulates (milligrams per cubic meter)

[Return to top for lab results from previous months](#)

2021 Air Volatile Organic Compound Data (Corrective Action Level = 25 ppm above upwind location)

		Monitoring Station ID (see figure)				
Date	Action Level Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
May 1	All Below	0.0092	0	0.0548	0.0002	--
May 2	All Below	0	0	0.0119	0	--
May 3	All Below	0	0.0011	0.0004	0.0276	--
May 4	All Below	0.0003	0.0023	0	0.0002	--
May 5	All Below	0.0003	0.0022	0.0025	0	--
May 6	All Below	0.0029	0.0001	0.0252	0.0008	--
May 7	All Below	0.0091	0.001	0.1345	0.0257	--
May 8	All Below	0.0044	0.0002	0.0029	0.0222	--
May 9	All Below	0	0.0002	0	0.0002	--
May 10	All Below	0.0015	0.0006	0	0.0002	--
May 11	All Below	0.0025	0	0.0005	0.0006	--
May 12	All Below	0.0002	0	0.0043	0.0001	--
May 13	All Below	0.0125	0	0.0359	0.0269	--
May 14	All Below	0.019	0	0.0495	0.0003	--
May 15	All Below	0.0001	0	0.1124	0	--
May 16	All Below	0.0016	0	0.0091	0	--
May 17	All Below	0.0001	0.0079	0	0	--
May 18	All Below	0	0.0001	0	0	--
May 19	All Below	0	0.0005	0.0035	0	--
May 20	All Below	0.0008	0.0003	0.0707	0	--
May 21	All Below	0	0	0.0008	0	--
May 22	All Below	0	0	0.0626	0	--
May 23	All Below	0	0	0.001	0	--
May 24	All Below	0.0112	0	0	0	--
May 25	All Below	0.0002	0	0.0036	0	--
May 26	All Below	0	0	0.0052	0	--

		Monitoring Station ID (see figure)				
Date	Action Level Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
May 27	All Below	0	0	0.0008	0	--
May 28	All Below	0.0116	0	0.0105	0	--
May 29	All Below	0.0127	0	0	0	--
May 30	All Below	0.0046	0	0	0	--
May 31	All Below	0	0	0	0	--

NA = Data not collected in accordance with plan

Volatile Organic Compounds (VOCs parts per million)

[Return to top for lab results from previous months](#)

2021 Air PCB Data (Corrective Action Level = 0.100 microgram per cubic meter)

		Monitoring Station ID (see figure)				
Date	Action Level Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
May 1	All Below	Below detectable levels	Below detectable levels	0.000400	0.000100	--
May 2	All Below	Below detectable levels	Below detectable levels	0.000310	Below detectable levels	--
May 3	All Below	Below detectable levels	Below detectable levels	0.000280	0.000250	--
May 4	All Below	Below detectable levels	Below detectable levels	0.000140	0.000150	--
May 5	All Below	Below detectable levels	Below detectable levels	0.000250	0.000200	--
May 6	All Below	Below detectable levels	Below detectable levels	0.000390	0.000160	--
May 7	All Below	Below detectable levels	Below detectable levels	0.000480	0.000110	--
May 8	All Below	Below detectable levels	Below detectable levels	0.000350	0.000220	--
May 9	All Below	Below detectable levels	Below detectable levels	0.000460	0.000140	--
May 10	All Below	Below detectable levels	Below detectable levels	0.000260	0.000170	--

		Monitoring Station ID (see figure)				
Date	Action Level Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
May 11	All Below	Below detectable levels	Below detectable levels	0.000250	0.000150	--
May 12	All Below	Below detectable levels	Below detectable levels	0.000470	0.000170	--
May 13	All Below	Below detectable levels	Below detectable levels	0.000450	0.000150	--
May 14	All Below	Below detectable levels	Below detectable levels	0.000430	0.000270	--
May 15	All Below	Below detectable levels	Below detectable levels	0.000300	0.000110	--
May 16	All Below	Below detectable levels	Below detectable levels	0.000200	0.000320	--
May 17	All Below	Below detectable levels	Below detectable levels	0.000190	0.000210	--
May 18	All Below	Below detectable levels	Below detectable levels	0.000310	0.000270	--
May 19	All Below	Below detectable levels	Below detectable levels	0.000380	0.000340	--
May 20	All Below	Below detectable levels	Below detectable levels	0.000480	0.000390	--
May 21	All Below	Below detectable levels	Below detectable levels	0.000480	0.000390	--
May 22	All Below	Below detectable levels	Below detectable levels	0.000340	0.000370	--
May 23	All Below	Below detectable levels	Below detectable levels	0.000400	0.000270	--
May 24	All Below	Below detectable levels	Below detectable levels	0.000120	0.000130	--
May 25	All Below	Below detectable levels	Below detectable levels	0.000300	0.000200	--

		Monitoring Station ID (see figure)				
Date	Action Level Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
May 26	All Below	Below detectable levels	Below detectable levels	--	0.000170	SA-AIR3 could not be analyzed
May 27	All Below	Below detectable levels	Below detectable levels	0.000210	0.000190	--
May 28	All Below	Below detectable levels	Below detectable levels	0.000170	0.000090	--
May 29	All Below	Below detectable levels	Below detectable levels	0.000120	0.000130	--
May 30	All Below	Below detectable levels	Below detectable levels	0.000180	0.000140	--

NA = Analysis not required in accordance with plan

Total PCBs (micrograms per cubic meter)

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Air Monitoring - 2021 Dredge Mobile River Stations

Program includes sampling for PCB analytical testing. The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Air Monitoring Locations - Dredge Corridor



■ Proposed Air Monitoring Station

2021 Air PCB Data (Corrective Action Level = 0.100 microgram per cubic meter)

		Monitoring Station ID (see figure)				
Date	Action Level Check	DC-M1	DC-M2	DC-M3	DC-M4	Notes
May 1	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 2	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 4	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 5	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 6	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 7	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 8	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 9	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 11	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 12	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 13	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -

		Monitoring Station ID (see figure)				
Date	Action Level Check	DC-M1	DC-M2	DC-M3	DC-M4	Notes
May 14	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 15	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 23	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 27	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 28	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 29	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 30	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -

NA = Analysis not required in accordance with plan

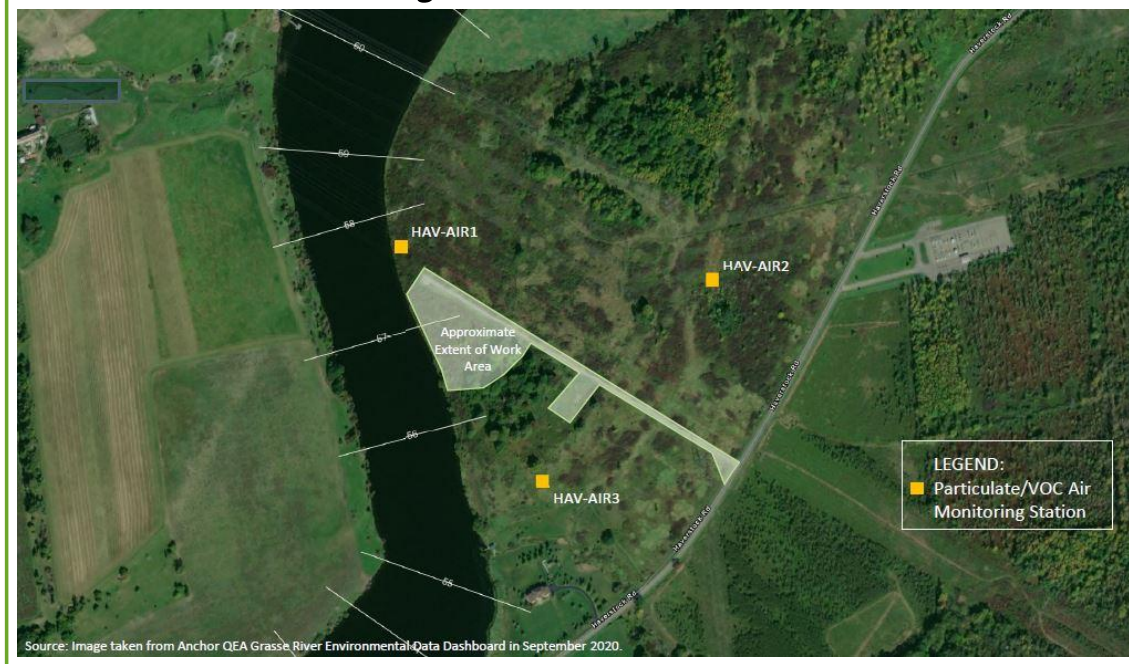
Total PCBs (micrograms per cubic meter)

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Air Monitoring - 2021 Haverstock Road Support Area

Program includes particulate monitoring using real-time meters for particulates (or dust). The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Air Monitoring Locations - Haverstock Road Area



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

Date	Action Level Check	Monitoring Station ID (see figure)			Notes
		HAV-AIR1	HAV-AIR2	HAV-AIR3	
May 1	All Below	0.0068	0.0131	0.0071	--
May 4	All Below	0.0049	0.0107	0.0015	--
May 5	All Below	0.0136	0.0238	0.0199	--
May 6	All Below	0.0196	0.0266	0.0167	--
May 7	All Below	0.0023	0.0057	0.0067	--
May 8	All Below	0.0046	0.0109	0.0104	--
May 11	All Below	0.0041	0.0105	0.0092	--
May 12	All Below	0.002	0.0069	0.0056	--
May 13	All Below	0.0103	0.0221	0.0242	--
May 14	All Below	0.0103	0.0122	0.0159	--
May 15	All Below	0.0099	0.011	0.0111	--
May 16	All Below	0.0108	0.0304	0.0294	--
May 17	All Below	0.0121	0.0153	0.0187	--
May 18	All Below	0.014	0.0208	0.0213	--
May 19	All Below	0.0172	0.0344	0.042	--
May 20	All Below	0.0173	0.0341	0.0334	--
May 21	All Below	0.0205	0.0318	0.0407	--
May 22	All Below	0.0247	0.0288	0.0303	--
May 23	All Below	0.0272	0.0281	0.0292	--
May 24	All Below	0.0154	0.0174	0.0165	--

Date	Action Level Check	Monitoring Station ID (see figure)			Notes
		HAV-AIR1	HAV-AIR2	HAV-AIR3	
May 25	All Below	0.0097	0.013	0.016	--
May 26	All Below	0.0301	0.0296	0.0303	--
May 27	All Below	0.0341	0.0308	0.0311	--
May 28	All Below	0.0046	0.0086	0.0153	--
May 29	All Below	0.0057	0.016	0.0212	--
May 30	All Below	0.0192	0.0476	0.053	--
May 31	All Below	0.0083	0.0137	0.0157	--

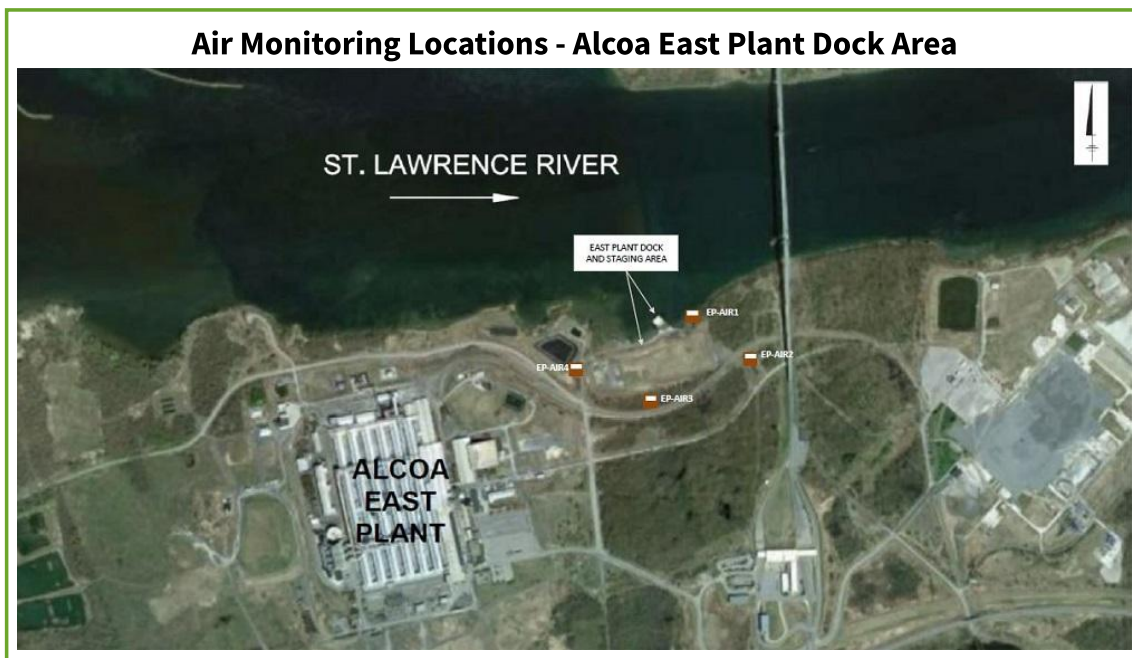
NA = Data not collected in accordance with plan

Particulates (milligrams per cubic meter)

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Air Monitoring - 2021 Alcoa East Plant Dock Area

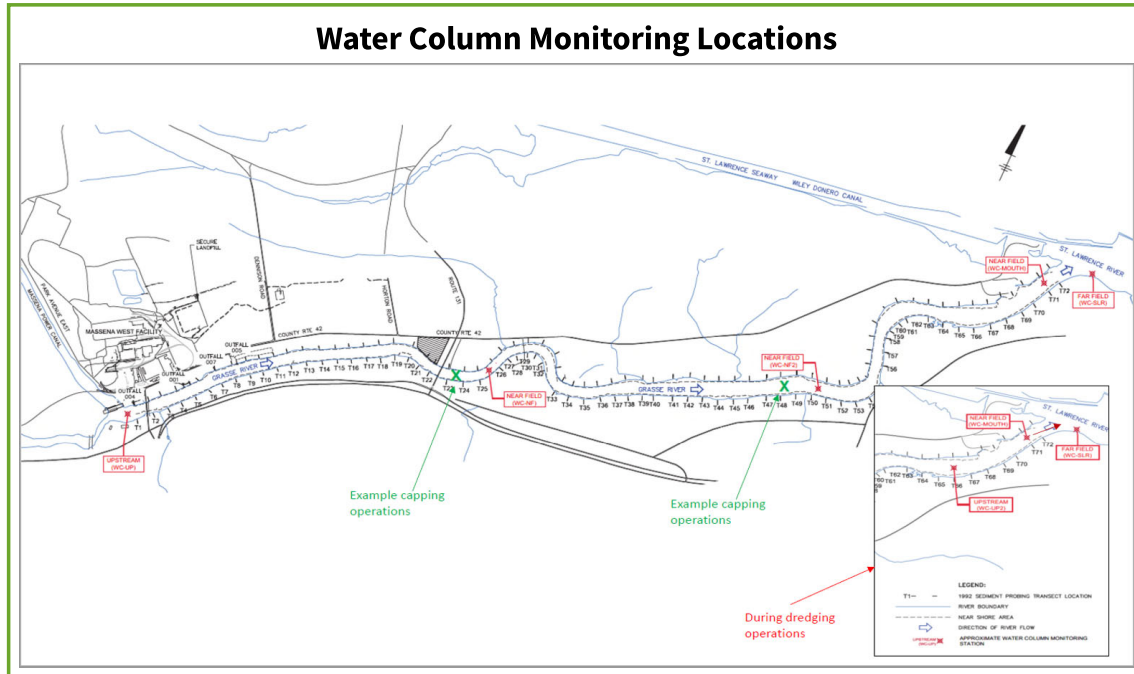
Program includes particulate monitoring using real-time meters for particulates (or dust) and volatile organic compounds (VOCs). Corrective action levels have been established based on levels that are safe for the community for particulates and VOCs. The actual monitoring results are compared to the corrective action levels to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below. (No active work in May.)



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Water Monitoring - 2021 River Remediation

Program includes turbidity monitoring using real-time meters for solids and PCB analytical testing at the water intake locations and total suspended solids (TSS) and PCB analytical testing at the river locations. Corrective action levels have been established based on levels that are safe for the community for both solids and PCBs. The actual monitoring results will be compared to the corrective action levels to determine if adjustments in construction are needed. The water locations and tabulated results are provided below.



2021 Water Column Total Suspended Solids Data (Corrective Action Level = 100 mg/L above WC-UP Level at WC-SLR)

		Monitoring Station ID (see figure)						
Date	Action Level Check	WC-UP1	WC-NF2	WC-NF	WC-NF3	WC-MOUTH	WC-SLR	Notes
May 1	All Below	22	15	10	NA	NA	8.9	--
May 3	All Below	15	22	10	NA	NA	9.5	--
May 4	All Below	6.6	6.3	10	NA	NA	7.5	--
May 5	All Below	5.0	14	16	NA	NA	5.1	--

		Monitoring Station ID (see figure)						
Date	Action Level Check	WC-UP1	WC-NF2	WC-NF	WC-NF3	WC-MOUTH	WC-SLR	Notes
May 6	All Below	Below detectable levels	13	7.6	NA	NA	6.7	--
May 7	All Below	Below detectable levels	19	13	NA	NA	6.3	--
May 8	All Below	Below detectable levels	7.6	6.3	NA	NA	6.1	--
May 10	All Below	Below detectable levels	5.4	5.3	NA	NA	Below detectable levels	--
May 11	All Below	Below detectable levels	13	Below detectable levels	NA	NA	Below detectable levels	--
May 12	All Below	Below detectable levels	23	Below detectable levels	NA	NA	Below detectable levels	--
May 13	All Below	Below detectable levels	13	7.5	NA	NA	7.6	--
May 14	All Below	Below detectable levels	69	5.2	NA	NA	Below detectable levels	--
May 15	All Below	Below detectable levels	NA	85	NA	8.5	Below detectable levels	--
May 17	All Below	Below detectable levels	NA	Below detectable levels	NA	7.1	5.0	--
May 18	All Below	Below detectable levels	17	18	NA	6.9	Below detectable levels	--
May 19	All Below	Below detectable levels	25	9.9	NA	9.1	Below detectable levels	--
May 20	All Below	Below detectable levels	Below detectable levels	12	NA	11	8.8	--
May 21	All Below	Below detectable levels	7.8	14	NA	12	11	--
May 22	All Below	Below detectable levels	9.5	11	8.0	NA	9.9	--

		Monitoring Station ID (see figure)						
Date	Action Level Check	WC-UP1	WC-NF2	WC-NF	WC-NF3	WC-MOUTH	WC-SLR	Notes
May 24	All Below	Below detectable levels	6.7	Below detectable levels	5.1	NA	Below detectable levels	--
May 25	All Below	Below detectable levels	8.4	6.4	16	NA	6.1	--
May 26	All Below	Below detectable levels	56	5.7	NA	NA	5.9	--
May 27	All Below	Below detectable levels	23	5.7	NA	NA	5.1	--
May 28	All Below	Below detectable levels	100	Below detectable levels	NA	NA	Below detectable levels	--
May 29	All Below	Below detectable levels	110	6.3	NA	NA	5.0	WC-NF2 above advisory level criteria resulting in operations review

Total Suspended Solids (TSS; milligrams per liter)

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2021 Water Column PCB Data (Corrective Action Level at WC-SLR = 0.5 microgram per liter)

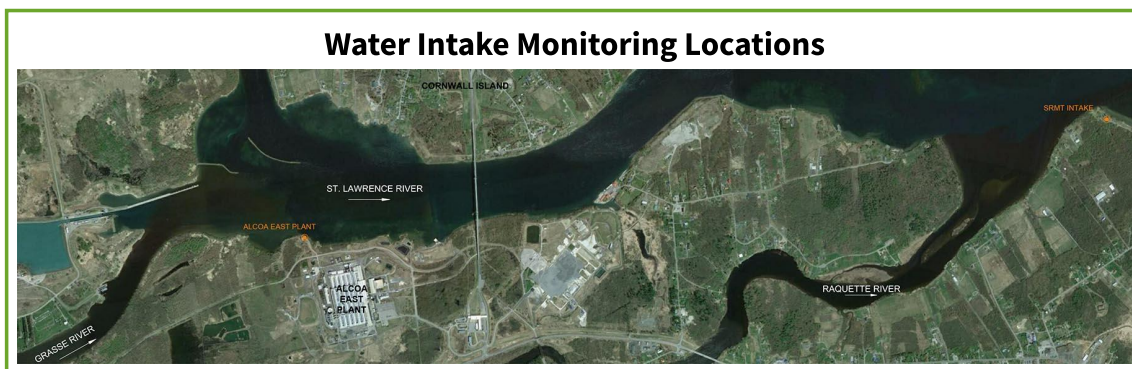
		Monitoring Station ID (see figure)					
Date	Action Level Check	WC-UP2	WC-NF2	WC-NF	WC-MOUTH	WC-SLR	Notes
May 1	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
May 3	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -

		Monitoring Station ID (see figure)					
Date	Action Level Check	WC-UP2	WC-NF2	WC-NF	WC-MOUTH	WC-SLR	Notes
May 4	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
May 5	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
May 6	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
May 7	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
May 10	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
May 11	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
May 12	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
May 13	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
May 14	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
May 15	All Below	NA	NA	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 17	All Below	NA	NA	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 18	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 19	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 20	All Below	NA	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
May 21	All Below	NA	Below detectable levels	NA	Below detectable levels	Below detectable levels	- -

		Monitoring Station ID (see figure)					
Date	Action Level Check	WC-UP2	WC-NF2	WC-NF	WC-MOUTH	WC-SLR	Notes
May 22	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
May 24	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
May 25	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
May 26	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
May 27	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
May 28	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
May 29	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -

Total PCBs (micrograms per liter)

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2021 Water Intake Turbidity Data (Corrective Action Level = 25 NTU above Baseline Level)

		Monitoring Station ID (see figure)			
Date	Action Level Check	IN-AE-RAW	IN-SRMT-RAW	IN-SRMT-FIL	Notes
May 1	All Below	0.8	1.0	0.1	--

Date	Action Level Check	Monitoring Station ID (see figure)			Notes
		IN-AE-RAW	IN-SRMT-RAW	IN-SRMT-FIL	
May 3	All Below	1.2	0.6	0.3	--
May 4	All Below	1.6	2.0	0.2	--
May 5	All Below	0.7	1.5	0.2	--
May 6	All Below	1.2	1.4	0.3	--
May 7	All Below	1.2	1.2	0.2	--
May 8	All Below	1.3	1.0	0.1	--
May 10	All Below	0.2	1.6	0.0	--
May 10	All Below	0.2	1.6	0.0	--
May 11	All Below	1.0	1.0	0.0	--
May 12	All Below	1.5	1.2	0.0	--
May 13	All Below	1.2	1.9	0.0	--
May 14	All Below	1.1	0.9	0.0	--
May 15	All Below	1.0	1.3	0.1	--
May 17	All Below	1.3	0.9	0.0	--
May 18	All Below	0.9	1.1	0.1	--
May 19	All Below	1.4	1.0	0.0	--
May 20	All Below	0.5	1.0	0.0	--
May 21	All Below	1.4	1.1	0.1	--
May 24	All Below	0.9	0.1	1.1	--
May 25	All Below	1.3	1.0	0.0	--
May 26	All Below	1.1	0.0	0.9	--
May 27	All Below	1.5	0.0	1.0	--
May 28	All Below	0.8	1.4	0.0	--
May 29	All Below	0.9	1.1	0.0	--

Turbidity (Nephelometric Turbidity Unit)

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2021 Water Intake PCB Data (Corrective Action Level at WC-SLR = 0.5 microgram per liter)

Date	Action Level Check	Monitoring Station ID (see figure)			Notes
		WC-AW-RAW	WC-SRMT-RAW	WC-SRMT-FIL	
May 1	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 3	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 4	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--


		Monitoring Station ID (see figure)			
Date	Action Level Check	WC-AW-RAW	WC-SRMT-RAW	WC-SRMT-FIL	Notes
May 5	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 6	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 7	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 10	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 11	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 12	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 13	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 14	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 15	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 17	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 18	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 19	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 20	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 21	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 22	--	--	--	--	No samples due to field delay
May 24	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 25	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 26	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 27	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 28	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
May 29	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--

Total PCBs (micrograms per liter)

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2021 CONSTRUCTION MONITORING

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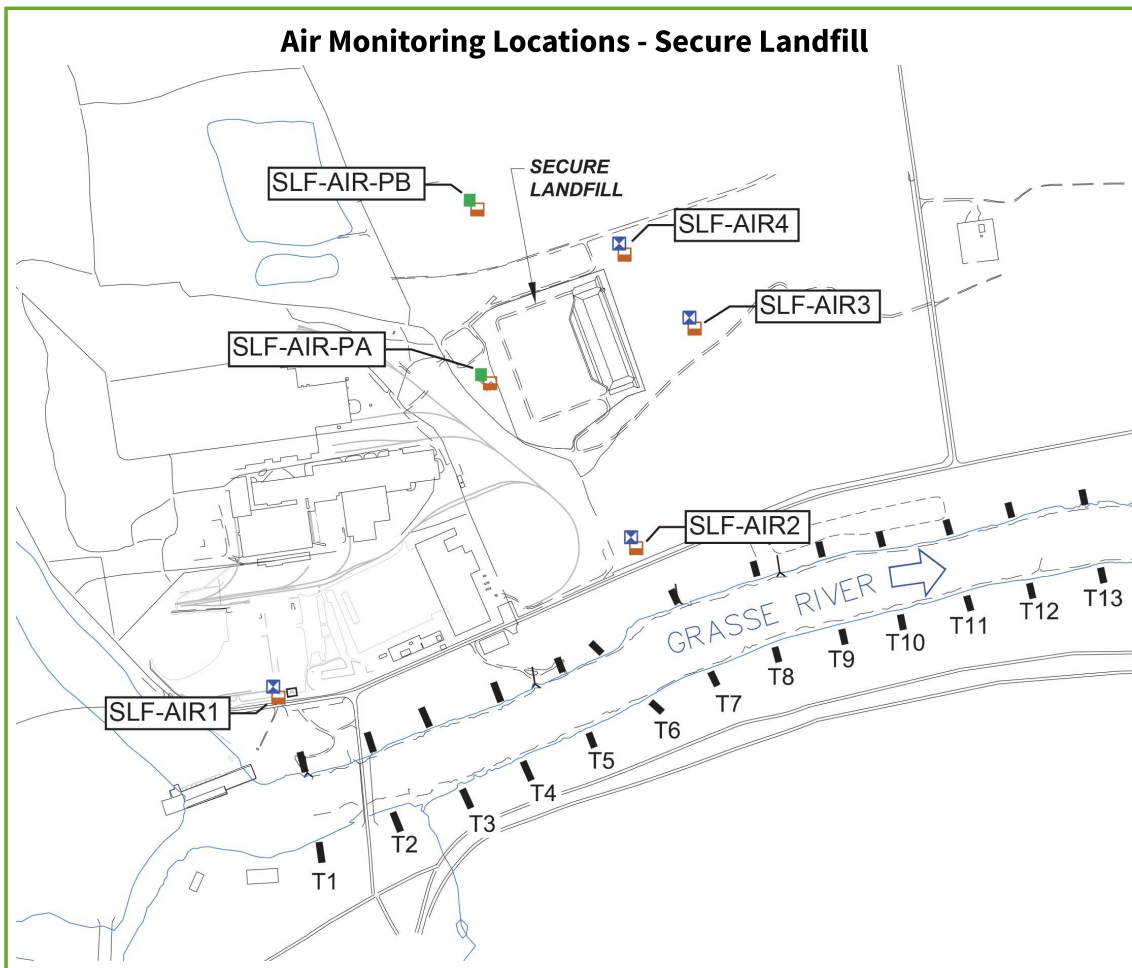
[HOME \(INDEX.HTML\)](#) > [ENVIRONMENTAL MONITORING \(MONITORING.HTML\)](#) > [CONSTRUCTION MONITORING \(MONITORINGCONSTRUCTION.HTML\)](#) > 2021

Environmental monitoring for the 2021 construction includes water and air. Air monitoring is being performed around the secure landfill, Route 131 Staging Area, Haverstock Road Staging Area, and Alcoa East Plant dock during construction at those locations. Water monitoring is being performed in the river and at water intakes. These monitoring activities and results for **June 2021** are summarized below. **(Additional 2021 Lab Results: [Current Month \(monitoringConstruction2021.html\)](#) | [April \(monitoringConstruction2021 April.html\)](#) | [May \(monitoringConstruction2021 May.html\)](#) | [June \(monitoringConstruction2021 June.html\)](#) | [July \(monitoringConstruction2021 July.html\)](#) | [August \(monitoringConstruction2021 August.html\)](#) | [September \(monitoringConstruction2021 September.html\)](#))**

- [Air Monitoring - 2021 Secure Landfill](#)
- [Air Monitoring - 2021 Route 131 Staging Area](#)
- [Air Monitoring - 2021 Dredge Mobile River Stations](#)
- [Air Monitoring - 2021 Haverstock Road Staging Area](#)
- [Air Monitoring - 2021 Alcoa East Plant Dock](#)
- [Water Monitoring - 2021 River Remediation](#)

Air Monitoring - 2021 Secure Landfill Construction and Operation

Program includes particulate monitoring using real-time meters for particulates (or dust) and volatile organic compounds (VOCs) and sampling for PCB analytical testing. Corrective action levels have been established based on levels that are safe for the community for particulates, VOCs, and PCBs. The actual monitoring results are compared to the corrective action levels to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

Date	Action Level Check	Monitoring Station ID (see figure)						Notes
		SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	
June 1	All Below	0.019	0.0151	0.016	0.0188	NA	NA	--
June 2	All Below	0.0322	0.0226	0.0191	0.02	0.0163	0.0139	--
June 3	All Below	0.0398	0.0298	0.0249	0.0303	0.0334	0.0228	--
June 4	All Below	0.067	0.0548	0.0469	0.0542	0.0485	0.0463	--
June 5	All Below	0.0599	0.0477	0.0411	0.0496	0.1438	0.0404	SLF-AIR-PA level not related to field activities
June 6	All Below	0	0.0308	0.027	0.0344	0.0285	0.0243	--
June 7	All Below	0	0.0318	0.0288	0.039	NA	NA	--

		Monitoring Station ID (see figure)						
Date	Action Level	SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-	Notes
	Check						PB	
June 8	All Below	0.004	0.0339	0.0302	0.0398	0.0355	0.0273	--
June 9	All Below	0.003	0.0207	0.0156	0.0232	0.0168	0.0167	--
June 10	All Below	0.0037	0.0268	0.0193	0.0294	0.0219	0.1083	--
June 11	All Below	0.0032	0.0118	0.0094	0.0158	0.0085	0.0092	--
June 12	All Below	0.009	0.0264	0.0234	0.0248	0.0249	0.0242	--
June 13	All Below	0.009	0.0272	0.1007	0.0488	0.0274	0.0256	SLF-AIR3 level not related to field activities
June 14	All Below	0.0089	0.0234	0.0166	0.022	NA	NA	--
June 15	All Below	0.0105	0.018	0.0146	0.0233	0.039	0.0142	--
June 16	All Below	0.012	0.0233	0.0227	0.0276	0.02	0.0231	--
June 17	All Below	0.008	0.0148	0.0121	0.0143	0.0116	0.0077	--
June 18	All Below	0.0075	0.0223	0.0183	0.0207	0.0166	0.0145	--
June 19	All Below	0.0167	0.0375	0.0305	0.0362	0.0311	0.028	--
June 20	All Below	0.0159	0.0382	0.0332	0.0424	0.0371	0.0275	--
June 21	All Below	0.014	0.0197	0.0148	0.0225	NA	NA	--
June 22	All Below	0.0136	0.0397	0.0284	0.0378	0.0306	0.0252	--
June 23	All Below	0.0098	0.0144	0.0201	0.017	0.0108	0.0093	--
June 24	All Below	0.0098	0.0119	0.0156	0.0128	0.0061	0.0058	--
June 25	All Below	0.009	0.0147	0.0261	0.0186	0.031	0.0098	--
June 26	All Below	0.0117	0.0268	0.0197	0.0592	0.1009	0.017	SLF-AIR-PA levels not related to field activities
June 27	All Below	0.014	0.0361	0.0327	0.0438	0.0238	0.0269	--
June 28	All Below	0.0133	0.0273	0.0228	0.0355	NA	NA	--
June 29	All Below	0.014	0.0349	0.0298	0.0419	0.0833	0.0254	--

		Monitoring Station ID (see figure)						
Date	Action Level Check	SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	Notes
June 30	All Below	0.0129	0.0416	0.0348	0.0426	0.0887	0.0303	--

NA = Data not collected in accordance with plan

Particulates (milligrams per cubic meter)

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2021 Air Volatile Organic Compound Data (Corrective Action Level = 25 ppm above upwind location)

		Monitoring Station ID (see figure)						
Date	Action Level Check	SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	Notes
June 1	All Below	0.0002	0.0316	0	0	NA	NA	--
June 2	All Below	0	0.0549	0.0002	0.0062	0.0011	0.0139	--
June 3	All Below	0	0.0521	0	0.1969	0	0.0228	--
June 4	All Below	0	0	0	0.2777	0	0.0463	--
June 5	All Below	0	0.0652	0	0.4129	0	0.0404	--
June 6	All Below	0	0.0865	0	0.544	0	0.0243	--
June 7	All Below	0.0045	0.0909	0	0.6866	NA	NA	--
June 8	All Below	0	0.0918	0	1.1445	0.1856	0.0273	--
June 9	All Below	0	0.0896	0	1.1377	0	0.0167	--
June 10	All Below	0.0199	0.1192	0.0107	0.4541	0	0.0183	--
June 11	All Below	0.003	0.0761	0	0.731	0	0.0092	--
June 12	All Below	0	0.0816	0	0.3153	0	0.0242	--
June 13	All Below	0	0.07	0	0.6343	0	0.0256	--
June 14	All Below	0	0.0528	0	1.3006	NA	NA	--
June 15	All Below	0	0.0805	0	0.003	0	0.0142	--
June 16	All Below	0.003	0.1276	0	0	0	0.0231	--
June 17	All Below	0.0002	0.0785	0	0	0	0.0077	--
June 18	All Below	0	0.0658	0	0	0	0.0145	--
June 19	All Below	0	0	0	0.9403	0	0.028	--
June 20	All Below	0.0005	0.0757	0	0.4242	0	0.0275	--
June 21	All Below	0	0.0949	0	0.2755	NA	NA	--
June 22	All Below	0.0248	0.1919	0.0258	0	0	0.0252	--
June 23	All Below	0.0168	0.1736	0.0281	0.1394	0	0.0093	--
June 24	All Below	0	0.0864	0.0014	0.778	0	0.0058	--
June 25	All Below	0.0002	0.0598	0	0	0	0.0098	--
June 26	All Below	0	0.0855	0	0.3269	0	0.017	--
June 27	All Below	0	0.1186	0	0.3845	0	0.0269	--
June 28	All Below	0	0.1406	0	0.7568	NA	NA	--
June 29	All Below	0	0.1736	0	1.2463	0.5565	0.0254	--

		Monitoring Station ID (see figure)						
Date	Action Level Check	SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	Notes
June 30	All Below	0.001	0.1644	0	0.0635	0.2639	0.0303	--

NA = Data not collected in accordance with plan

Volatile Organic Compounds (VOCs parts per million)

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2021 Air PCB Data (Corrective Action Level = 0.100 microgram per cubic meter)

		Monitoring Station ID (see figure)						
Date	Action Level Check	SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	Notes
June 2	All Below	0.000280	0.000600	0.000440	0.000450	Below detectable levels	Below detectable levels	- -
June 3	All Below	0.000360	0.000710	0.000520	0.000470	Below detectable levels	Below detectable levels	- -
June 4	All Below	0.000180	0.000520	0.000700	0.000500	Below detectable levels	Below detectable levels	- -
June 5	All Below	0.000430	0.000870	0.000550	0.000270	NA	NA	- -
June 6	All Below	0.000280	0.000840	0.000560	0.000630	Below detectable levels	Below detectable levels	- -
June 7	All Below	0.000280	0.000860	0.000530	0.000600	NA	NA	- -
June 8	All Below	0.000230	0.001050	0.001070	0.000560	NA	NA	- -
June 9	All Below	0.000220	0.000780	0.000620	0.000540	NA	NA	- -
June 10	All Below	0.000190	0.000280	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 11	All Below	0.000180	0.000160	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 12	All Below	0.000270	0.000380	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 13	All Below	0.000360	0.000410	0.000600	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 14	All Below	0.000380	0.000790	0.000440	0.000430	NA	NA	- -

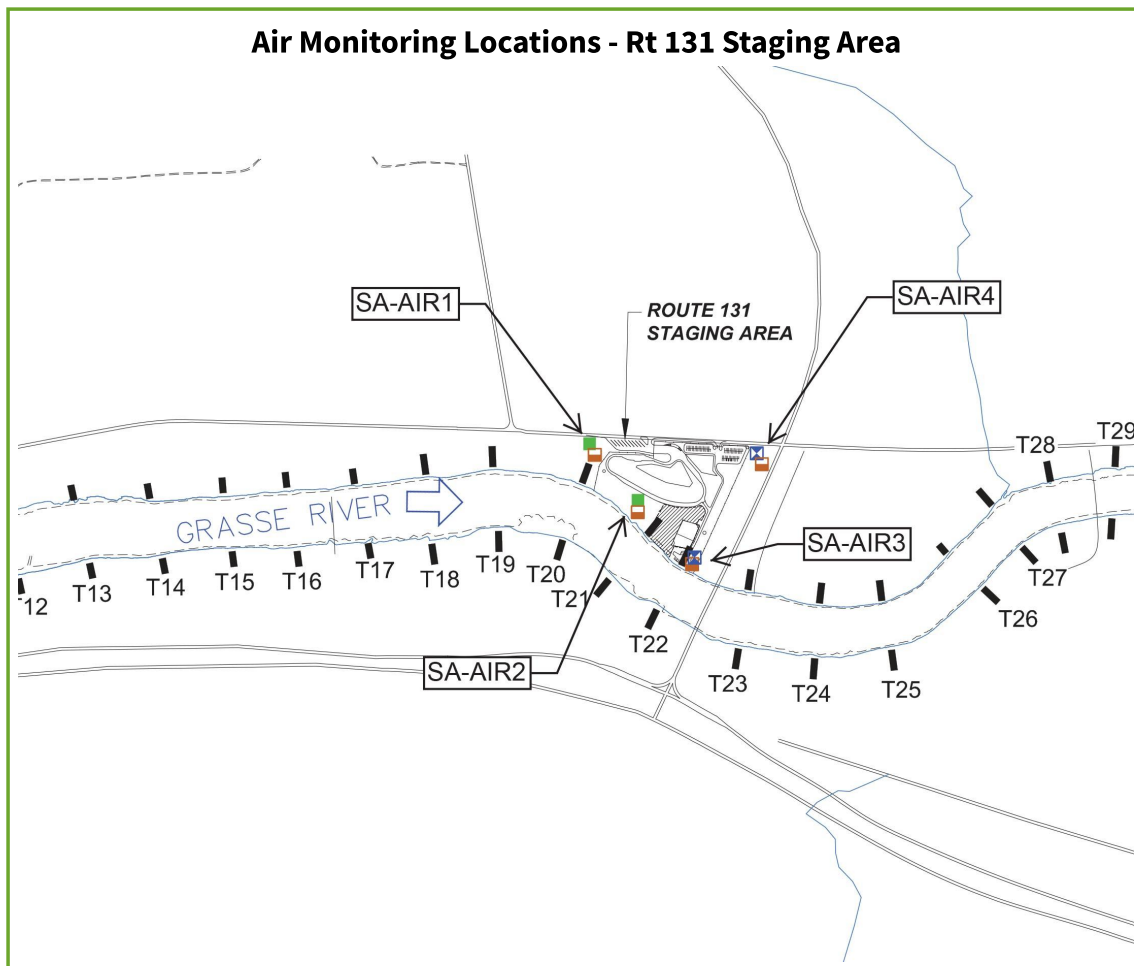
		Monitoring Station ID (see figure)						
Date	Action Level Check	SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	Notes
June 15	All Below	0.000270	0.000460	0.000270	0.000460	Below detectable levels	Below detectable levels	- -
June 16	All Below	0.000350	0.000410	0.000210	0.000180	Below detectable levels	Below detectable levels	- -
June 17	All Below	0.000210	0.000360	0.000280	0.000170	Below detectable levels	Below detectable levels	- -
June 18	All Below	0.000220	0.000410	0.000320	0.000320	Below detectable levels	Below detectable levels	- -
June 19	All Below	0.000190	0.000410	0.000270	0.000460	Below detectable levels	Below detectable levels	- -
June 20	All Below	0.000300	0.000680	Below detectable levels	0.000270	Below detectable levels	Below detectable levels	- -
June 21	All Below	0.000340	0.000440	Below detectable levels	0.000320	NA	NA	- -
June 22	All Below	0.000240	0.000590	Below detectable levels	0.000610	Below detectable levels	Below detectable levels	- -
June 23	All Below	0.000190	0.000220	Below detectable levels	0.000110	Below detectable levels	Below detectable levels	- -
June 24	All Below	0.000180	0.000340	Below detectable levels	0.000150	Below detectable levels	Below detectable levels	- -
June 25	All Below	0.000400	0.000630	Below detectable levels	0.000400	Below detectable levels	Below detectable levels	- -
June 27	All Below	0.000940	0.000890	0.000420	0.000500	Below detectable levels	Below detectable levels	- -
June 28	All Below	Below detectable levels	0.001120	Below detectable levels	Below detectable levels	NA	NA	- -
June 29	All Below	0.000300	0.001020	0.000550	0.000340	Below detectable levels	Below detectable levels	- -
June 30	All Below	0.000570	0.000950	0.000650	Below detectable levels	Below detectable levels	Below detectable levels	- -

NA = Analysis not required in accordance with plan
Total PCBs (micrograms per cubic meter)

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Air Monitoring - 2021 Route 131 Staging Area

Program includes particulate monitoring using real-time meters for particulates (or dust) and volatile organic compounds (VOCs) and sampling for PCB analytical testing during handling of potential PCB-containing material. Corrective action levels have been established based on levels that are safe for the community for particulates, VOCs, and PCBs. The actual monitoring results are compared to the corrective action levels to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

	Monitoring Station ID (see figure)	
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	Action Level	Monitoring Station ID (see figure)				
Date	Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
Date	Action Level					
Date	Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
June 1	All Below	0.0194	0.0091	0.0146	0.0128	--
June 2	All Below	0.0196	0.0096	0.0229	0.0217	--
June 3	All Below	0.029	0.0138	0.0638	0.0226	--
June 4	All Below	0.0404	0.0274	0.0445	0.1335	SA-AIR4 level not related to field activities
June 5	All Below	0.0376	0.0256	0.0411	0.0462	--
June 6	All Below	0.0256	0.0176	0.0262	0.0289	--
June 7	All Below	0.028	0.0178	0.0267	0.0295	--
June 8	All Below	0.0306	0.0181	0.0271	0.0436	--
June 9	All Below	0.0463	0.0105	0.0164	0.0225	--
June 10	All Below	0.0595	0.0103	0.0183	0.022	--
June 11	All Below	0.013	0.0099	0.0077	0.0074	--
June 12	All Below	0.0424	0.0152	0.0181	0.017	--
June 13	All Below	0.0155	0.0129	0.0187	0.0179	--
June 14	All Below	0.0185	0.0115	0.0182	0.0214	--
June 15	All Below	0.0233	0.0073	0.0135	0.0149	--
June 16	All Below	0.0145	0.0092	0.0223	0.0165	--
June 17	All Below	0.0089	0.0073	0.0138	0.0444	--
June 18	All Below	0.0102	0.0067	0.0102	0.021	--
June 19	All Below	0.0259	0.0185	0.0295	0.0295	--
June 20	All Below	0.0251	0.0172	0.0281	0.0301	--
June 21	All Below	0.016	0.0084	0.0143	0.0151	--
June 22	All Below	0.1022	0.0158	0.0238	0.0291	SA-AIR1 level not related to field activities
June 23	All Below	0.0136	0.0094	0.0127	0.0121	--
June 24	All Below	0.0213	0.0085	0.0107	0.01	--
June 25	All Below	0.0105	0.0071	0.0093	0.0139	--

	Monitoring Station ID (see figure)	
--	---	--

Date	Action Level		SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
	Check						
June 26	All Below		0.0209	0.0121	0.0192	0.0175	--
June 27	All Below		0.0249	0.0152	0.0229	0.0341	--
June 28	All Below		0.0257	0.0132	0.0197	0.0645	--
June 29	All Below		0.0258	0.0153	0.0229	0.0322	--
June 30	All Below		0.0287	0.0176	0.0258	0.0302	--

NA = Data not collected in accordance with plan
 Particulates (milligrams per cubic meter)

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2021 Air Volatile Organic Compound Data (Corrective Action Level = 25 ppm above upwind location)

		Monitoring Station ID (see figure)				
Date	Action Level Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
June 1	All Below	0	0	0	0	--
June 2	All Below	0	0	0.0005	0	--
June 3	All Below	0	0	0.0511	0	--
June 4	All Below	0	0	0.0038	0	--
June 5	All Below	0.0181	0	0.0317	0	--
June 6	All Below	0.0016	0.0021	0.002	0	--
June 7	All Below	0.0001	0.0057	0.0081	0	--
June 8	All Below	0.001	0.0139	0.0071	0	--
June 9	All Below	0	0.0025	0.0072	0	--
June 10	All Below	0.0503	0.0279	0.0373	0.7569	--
June 11	All Below	0.0414	0.0012	0.0226	0	--
June 12	All Below	0.0349	0.0088	0.0304	0	--
June 13	All Below	0.0426	0.0206	0.0262	0	--
June 14	All Below	0.0354	0.0179	0.0213	0	--
June 15	All Below	0.0188	0.0083	0.0136	0	--
June 16	All Below	0.0519	0.005	0.0398	0	--
June 17	All Below	0.0383	0.0012	0.0368	0.0067	--
June 18	All Below	0.0271	0	0.031	0	--
June 19	All Below	0.019	0.0002	0.0165	0	--
June 20	All Below	0.0109	0.0002	0	0	--

		Monitoring Station ID (see figure)				
Date	Action Level Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
June 21	All Below	0.0056	0.0017	0	0	--
June 22	All Below	0.0295	0.0001	0.0074	0	--
June 23	All Below	0.0462	0	0.0241	0.0001	--
June 24	All Below	0.0442	0	0.042	0	--
June 25	All Below	0.0315	0	0.0638	0	--
June 26	All Below	0.0033	0.0004	0.0012	0	--
June 27	All Below	0.0011	0	0.0056	0	--
June 28	All Below	0.0079	0	0	0	--
June 29	All Below	0.0002	0	0.0085	0	--
June 30	All Below	0.0002	0	0.0085	0	--

NA = Data not collected in accordance with plan

Volatile Organic Compounds (VOCs parts per million)

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2021 Air PCB Data (Corrective Action Level = 0.100 microgram per cubic meter)

		Monitoring Station ID (see figure)				
Date	Action Level Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
June 2	All Below	Below detectable levels	Below detectable levels	0.000520	0.000340	- -
June 3	All Below	Below detectable levels	Below detectable levels	0.000840	0.000330	- -
June 4	All Below	Below detectable levels	Below detectable levels	0.000590	0.000340	- -
June 5	All Below	Below detectable levels	Below detectable levels	0.000450	0.000120	- -
June 6	All Below	Below detectable levels	Below detectable levels	Below detectable levels	0.000220	- -
June 7	All Below	Below detectable levels	Below detectable levels	0.000270	0.000240	- -
June 8	All Below	Below detectable levels	Below detectable levels	0.000410	0.000300	- -
June 9	All Below	Below detectable levels	Below detectable levels	0.000210	0.000230	- -
June 10	All Below	Below detectable levels	Below detectable levels	0.000260	0.000250	- -
June 11	All Below	Below detectable levels	Below detectable levels	0.000160	0.000130	- -
June 12	All Below	Below detectable levels	Below detectable levels	0.000170	0.000130	- -
June 13	All Below	Below detectable levels	Below detectable levels	0.000210	0.000200	- -

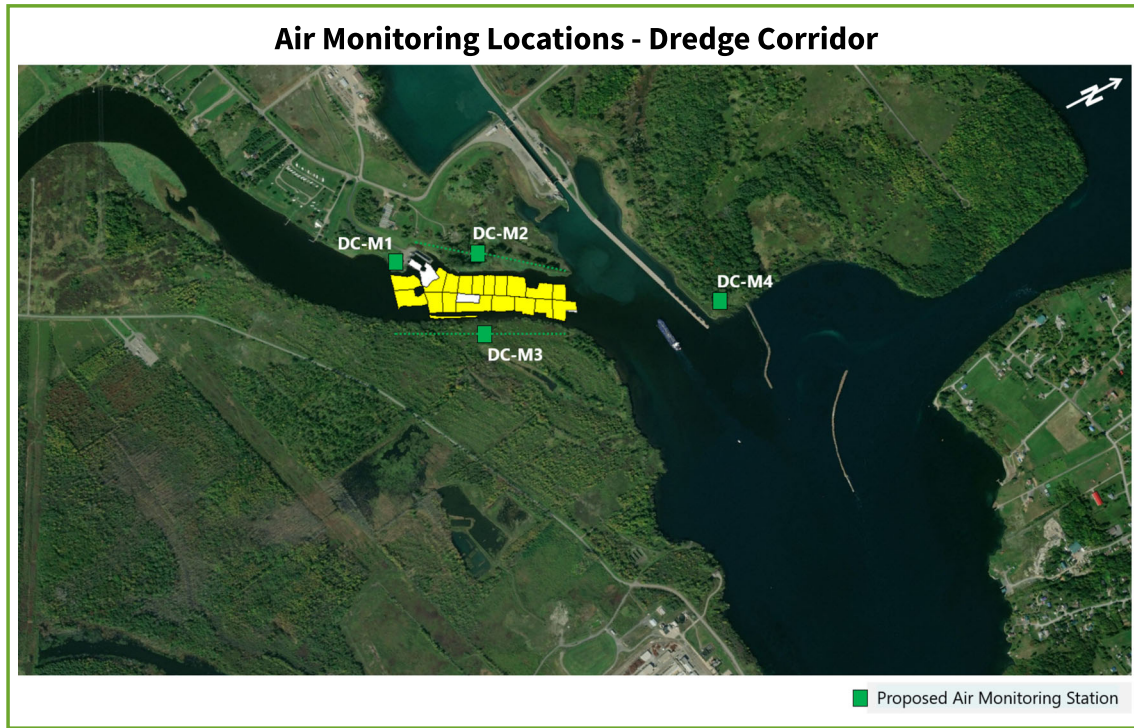
		Monitoring Station ID (see figure)				
Date	Action Level Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
June 14	All Below	Below detectable levels	Below detectable levels	0.000410	0.000280	- -
June 15	All Below	Below detectable levels	Below detectable levels	0.000300	0.000310	- -
June 16	All Below	Below detectable levels	Below detectable levels	0.000200	0.000160	- -
June 17	All Below	Below detectable levels	Below detectable levels	0.000130	0.000130	- -
June 18	All Below	Below detectable levels	Below detectable levels	0.000140	0.000130	- -
June 19	All Below	Below detectable levels	Below detectable levels	Below detectable levels	0.000100	- -
June 20	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 21	All Below	Below detectable levels	Below detectable levels	Below detectable levels	0.000220	- -
June 22	All Below	Below detectable levels	Below detectable levels	0.000140	0.000130	- -
June 23	All Below	Below detectable levels	Below detectable levels	Below detectable levels	0.000100	- -
June 24	All Below	Below detectable levels	Below detectable levels	0.000110	0.000110	- -
June 25	All Below	Below detectable levels	Below detectable levels	0.000290	0.000480	- -
June 27	All Below	Below detectable levels	Below detectable levels	0.000300	0.000160	- -
June 28	All Below	Below detectable levels	Below detectable levels	0.000210	0.000150	- -
June 29	All Below	Below detectable levels	Below detectable levels	0.000160	0.000160	- -
June 30	All Below	Below detectable levels	Below detectable levels	0.000260	0.000370	- -

NA = Analysis not required in accordance with plan
Total PCBs (micrograms per cubic meter)

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Air Monitoring - 2021 Dredge Mobile River Stations

Program includes sampling for PCB analytical testing. The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.



2021 Air PCB Data (Corrective Action Level = 0.100 microgram per cubic meter)

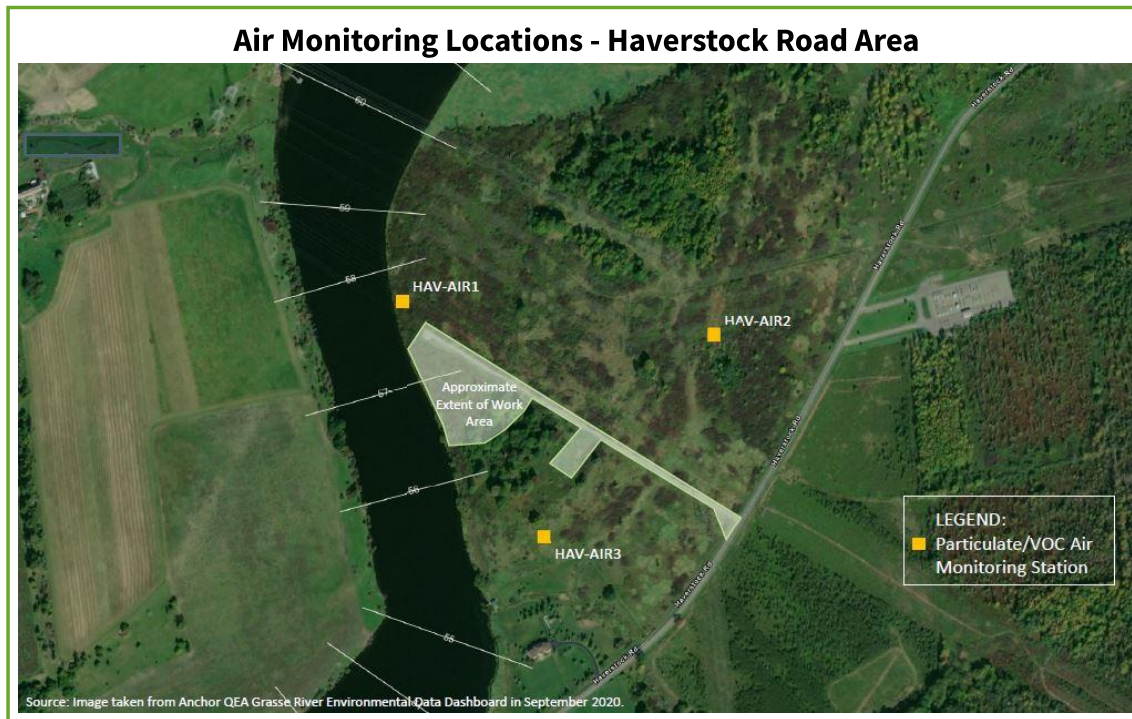
		Monitoring Station ID (see figure)				
Date	Action Level Check	DC-M1	DC-M2	DC-M3	DC-M4	Notes
June 2	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 3	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 4	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 5	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -

NA = Analysis not required in accordance with plan
 Total PCBs (micrograms per cubic meter)

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Air Monitoring - 2021 Haverstock Road Support Area

Program includes particulate monitoring using real-time meters for particulates (or dust). The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

		Monitoring Station ID (see figure)			
Date	Action Level Check	HAV-AIR1	HAV-AIR2	HAV-AIR3	Notes
June 1	All Below	0.0115	0.0169	0.0175	--
June 2	All Below	0.0128	0.0192	0.0189	--
June 3	All Below	0.0164	0.0245	0.0233	--
June 4	All Below	0.034	0.055	0.0407	--
June 5	All Below	0.0334	0.055	0.0379	--
June 6	All Below	0.004	0.055	0.0274	--
June 7	All Below	0.0368	0.055	0.0289	--
June 8	All Below	0.0379	0.055	0.0342	--
June 9	All Below	0.0237	0.016	0.0174	--
June 10	All Below	0.02	0.0156	0.019	--
June 11	All Below	0.0164	0.0088	0.0109	--
June 12	All Below	0.0167	0.0149	0.0247	--
June 13	All Below	0.0254	0.0215	0.0319	--

		Monitoring Station ID (see figure)			
Date	Action Level Check	HAV-AIR1	HAV-AIR2	HAV-AIR3	Notes
June 14	All Below	0.0223	0.0184	0.0215	--
June 15	All Below	0.0232	0.0124	0.0169	--
June 16	All Below	0.0202	0.0146	0.011	--
June 17	All Below	0.0163	0.003	0.011	--
June 18	All Below	0.0185	0.0116	0.0116	--
June 19	All Below	0.0291	0.0287	0.0283	--
June 20	All Below	0.0299	0.0256	0.0278	--
June 21	All Below	0.0226	0.0135	0.0207	--
June 22	All Below	0.0377	0.0264	0.0283	--
June 23	All Below	0.0173	0.0102	0.018	--
June 24	All Below	0.0144	0.01	0.0134	--
June 25	All Below	0.0188	0.0088	0.0167	--
June 26	All Below	0.022	0.0397	0.0242	--
June 27	All Below	0.0291	0.0524	0.0295	--
June 28	All Below	0.0359	0.026	0.006	--
June 29	All Below	0.0391	0.026	0.006	--
June 30	All Below	0.0364	2.1151	0.032	HAV-AIR2 levels not related to field activities

NA = Data not collected in accordance with plan

Particulates (milligrams per cubic meter)

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Air Monitoring - 2021 Alcoa East Plant Dock Area

Program includes particulate monitoring using real-time meters for particulates (or dust). The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below. Monitoring is only performed when there is active work at this area.

Air Monitoring Locations - Alcoa East Plant Dock Area



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

Date	Action Level Check	Monitoring Station ID (see figure)				Notes
		EP-AIR1	EP-AIR2	EP-AIR3	EP-AIR4	
June 25	All Below	0.0067	0.0114	0.0087	0.0113	--
June 26	All Below	0.0124	0.0253	0.0138	0.0198	--
June 27	All Below	0	0.032	0.019	0.0255	--
June 29	All Below	0.0228	0.032	0.0203	0.0284	--
June 30	All Below	0.0227	0.0288	0.0209	0.0305	--

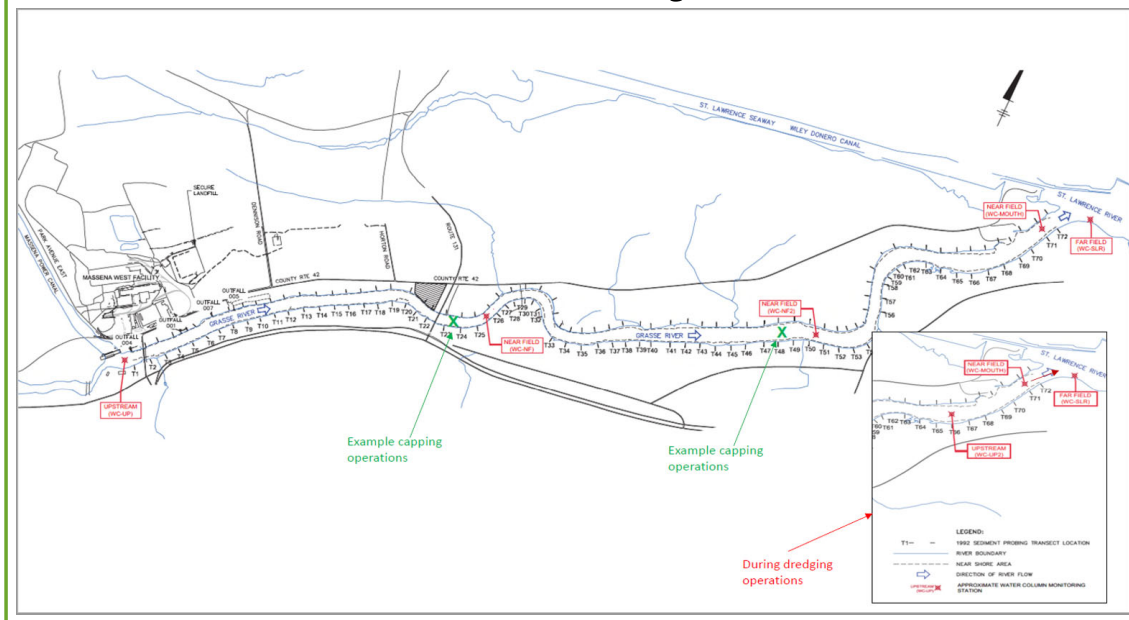
NA = Data not collected in accordance with plan
 Particulates (milligrams per cubic meter)

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Water Monitoring - 2021 River Remediation

Program includes turbidity monitoring using real-time meters for solids and PCB analytical testing at the water intake locations and total suspended solids (TSS) and PCB analytical testing at the river locations. Corrective action levels have been established based on levels that are safe for the community for both solids and PCBs. The actual monitoring results will be compared to the corrective action levels to determine if adjustments in construction are needed. The water locations and tabulated results are provided below.

Water Column Monitoring Locations



2021 Water Column Total Suspended Solids Data (Corrective Action Level = 100 mg/L above WC-UP Level at WC-SLR)

		Monitoring Station ID (see figure)						
Date	Action Level Check	WC-UP1	WC-NF2	WC-NF	WC-NF3	WC-MOUTH	WC-SLR	Notes
June 1	All Below	Below detectable levels	18	6.3	NA	NA	7.2	- -
June 2	All Below	Below detectable levels	26	9.1	NA	NA	Below detectable levels	- -
June 3	All Below	Below detectable levels	18	15	NA	NA	12	- -
June 4	All Below	Below detectable levels	28	5.2	NA	NA	14	- -
June 5	All Below	9.4	22	9.0	NA	9.6	10	- -
June 7	All Below	Below detectable levels	5.0	6.2	NA	5.7	Below detectable levels	- -
June 8	All Below	Below detectable levels	15	8.9	NA	5.5	Below detectable levels	- -

		Monitoring Station ID (see figure)						
Date	Action Level Check	WC-UP1	WC-NF2	WC-NF	WC-NF3	WC-MOUTH	WC-SLR	Notes
June 9	All Below	Below detectable levels	10	13	NA	5.1	Below detectable levels	- -
June 10	All Below	Below detectable levels	18	23	NA	Below detectable levels	Below detectable levels	- -
June 11	All Below	Below detectable levels	16	16	NA	5.6	Below detectable levels	- -
June 12	All Below	Below detectable levels	25	19	NA	11	Below detectable levels	- -
June 14	All Below	5.6	8.8	8.8	NA	6.8	Below detectable levels	- -
June 15	All Below	Below detectable levels	17	15	NA	7.3	Below detectable levels	- -
June 16	All Below	Below detectable levels	14	13	NA	13	Below detectable levels	- -
June 17	All Below	Below detectable levels	5.6	19	NA	19	5.0	- -
June 18	All Below	Below detectable levels	20	10	NA	15	Below detectable levels	- -
June 19	All Below	Below detectable levels	13	22	NA	15	Below detectable levels	- -
June 21	All Below	Below detectable levels	21	13	NA	6.1	Below detectable levels	- -
June 22	All Below	Below detectable levels	32	37	NA	9.8	Below detectable levels	- -
June 23	All Below	Below detectable levels	10	41	NA	8.4	Below detectable levels	- -
June 24	All Below	Below detectable levels	12	44	NA	10	Below detectable levels	- -
June 25	All Below	Below detectable levels	51	5.1	16	NA	Below detectable levels	- -

		Monitoring Station ID (see figure)						
Date	Action Level Check	WC-UP1	WC-NF2	WC-NF	WC-NF3	WC-MOUTH	WC-SLR	Notes
June 26	All Below	Below detectable levels	22	9.2	NA	NA	13	- -
June 28	All Below	6.7	22	16	NA	NA	10	- -
June 29	All Below	Below detectable levels	33	Below detectable levels	19	NA	Below detectable levels	- -
June 30	All Below	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -

Total Suspended Solids (TSS; milligrams per liter)

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2021 Water Column PCB Data (Corrective Action Level at WC-SLR = 0.5 microgram per liter)

		Monitoring Station ID (see figure)					
Date	Action Level Check	WC-UP2	WC-NF2	WC-NF	WC-MOUTH	WC-SLR	Notes
June 1	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
June 2	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
June 3	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
June 4	All Below	Below detectable levels	NA	Below detectable levels	NA	Below detectable levels	- -
June 5	All Below	NA	NA	Below detectable levels	NA	Below detectable levels	- -
June 7	All Below	NA	NA	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 8	All Below	NA	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -

		Monitoring Station ID (see figure)					
Date	Action	WC-UP2	WC-NF2	WC-NF	WC-MOUTH	WC-SLR	Notes
	Level Check						
June 9	All Below	NA	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 10	All Below	NA	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 11	All Below	NA	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 12	All Below	NA	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 14	All Below	NA	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 15	All Below	NA	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 16	All Below	NA	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 17	All Below	NA	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 18	All Below	NA	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 19	All Below	NA	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 21	All Below	NA	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 22	All Below	NA	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 23	All Below	NA	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -
June 24	All Below	NA	Below detectable levels	Below detectable levels	Below detectable levels	Below detectable levels	- -

Total PCBs (micrograms per liter)

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Water Intake Monitoring Locations



2021 Water Intake Turbidity Data (Corrective Action Level = 25 NTU above Baseline Level)

Date	Action Level Check	Monitoring Station ID (see figure)			Notes
		IN-AE-RAW	IN-SRMT-RAW	IN-SRMT-FIL	
June 1	All Below	0.6	1.1	0.0	--
June 2	All Below	1.3	1.9	0.0	--
June 3	All Below	1.1	1.4	0.1	--
June 4	All Below	1.0	1.3	0.1	--
June 5	All Below	1.1	1.2	0.1	--
June 7	All Below	1.2	1.6	0.0	--
June 8	All Below	0.9	1.0	0.0	--
June 9	All Below	0.2	1.0	0.1	--
June 10	All Below	1.0	0.1	0.1	--
June 11	All Below	1.1	1.0	0.0	--
June 12	All Below	0.8	1.5	0.0	--
June 14	All Below	0.7	1.0	0.0	--
June 15	All Below	0.9	1.2	0.0	--
June 16	All Below	0.8	1.0	0.0	--
June 17	All Below	1.6	1.0	0.1	--
June 18	All Below	0.1	1.0	0.1	--
June 19	All Below	0.9	1.1	0.1	--
June 21	All Below	0.8	1.0	0.0	--
June 22	All Below	1.2	1.1	0.2	--
June 23	All Below	0.6	1.2	0.1	--
June 24	All Below	1.0	1.2	0.2	--
June 25	All Below	1.2	1.1	0.4	--
June 26	All Below	1.2	1.3	0.0	--
June 28	All Below	0.7	1.5	0.0	--
June 29	All Below	3.8	2.1	0.1	--
June 30	All Below	1.7	1.4	0.1	--

NA = Analysis not required in accordance with plan
Turbidity (Nephelometric Turbidity Unit)

2021 Water Intake PCB Data (Corrective Action Level at WC-SLR = 0.5 microgram per liter)

		Monitoring Station ID (see figure)			
Date	Action Level Check	WC-AW-RAW	WC-SRMT-RAW	WC-SRMT-FIL	Notes
June 1	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 2	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 3	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 4	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 5	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 7	All Below	--	--	--	Samples lost during shipping
June 8	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 9	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 10	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 11	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 12	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 14	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 15	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 16	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 17	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 18	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 19	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 21	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 22	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--
June 23	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--

		Monitoring Station ID (see figure)			
Date	Action Level Check	WC-AW-RAW	WC-SRMT-RAW	WC-SRMT-FIL	Notes
June 24	All Below	Below detectable levels	Below detectable levels	Below detectable levels	--

Total PCBs (micrograms per liter)

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2021 CONSTRUCTION MONITORING

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2021

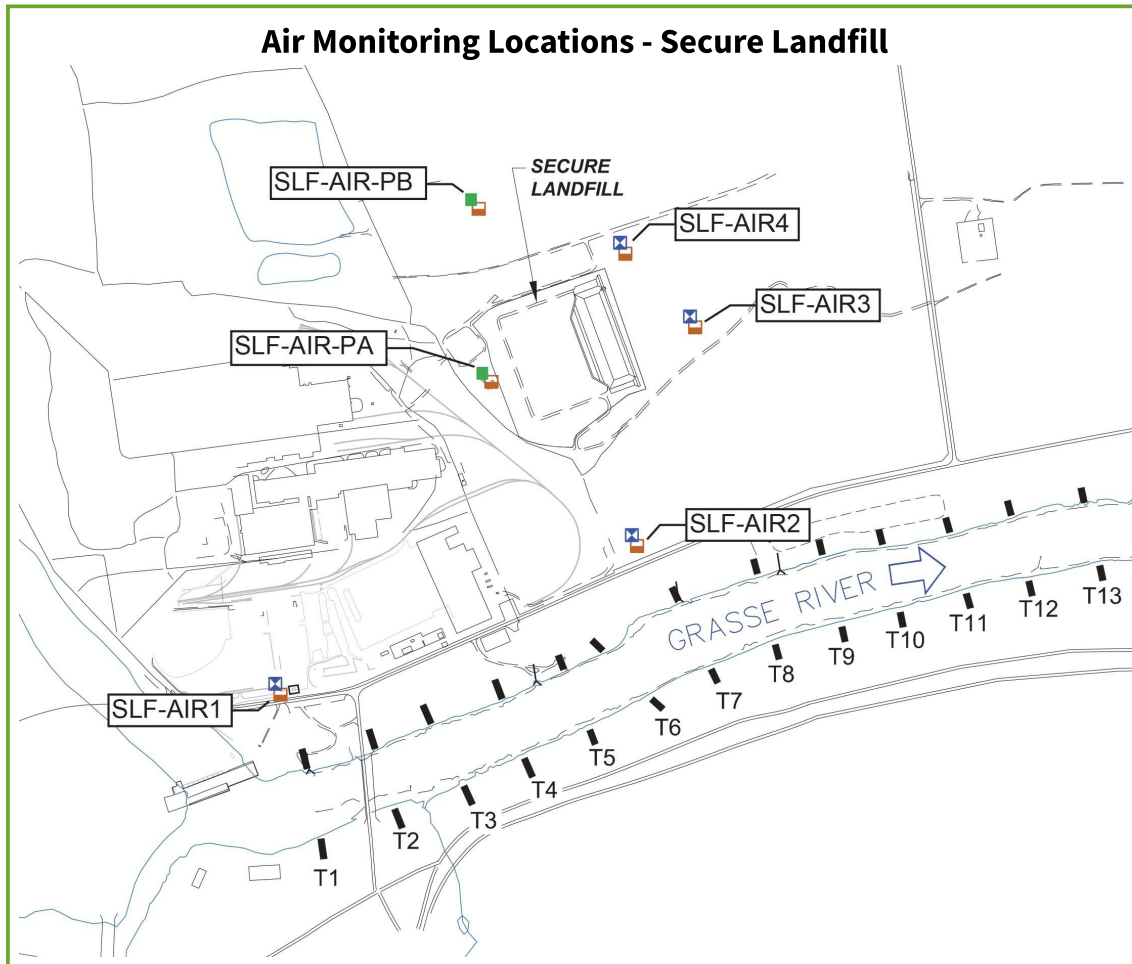
Environmental monitoring for the 2021 construction includes water and air. Air monitoring is being performed around the secure landfill, Route 131 Staging Area, Haverstock Road Staging Area, and Alcoa East Plant dock during construction at those locations. Water monitoring is being performed in the river and at water intakes. These monitoring activities and results for **July 2021** are summarized below. **(Additional 2021 Lab Results: Current Month (monitoringConstruction2021.html) | April (monitoringConstruction2021 April.html) | May (monitoringConstruction2021 May.html) | June (monitoringConstruction2021 June.html) | July (monitoringConstruction2021 July.html) | August (monitoringConstruction2021 August.html) | September (monitoringConstruction2021 September.html))**

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Air Monitoring - 2021 Secure Landfill Construction and Operation

Program includes particulate monitoring using real-time meters for particulates (or dust) and volatile organic compounds (VOCs) and sampling for PCB analytical testing. Corrective action levels have been established based on levels that are safe for the community for particulates, VOCs, and PCBs. The actual monitoring results are compared to the corrective action levels to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Note that air monitoring for PCBs and VOCs was discontinued in June as material handling and disposal operations were completed. Air monitoring for dust was also discontinued in June as landfill construction and covering efforts were completed. Additional dust monitoring will be performed if final covering activities are performed this year.



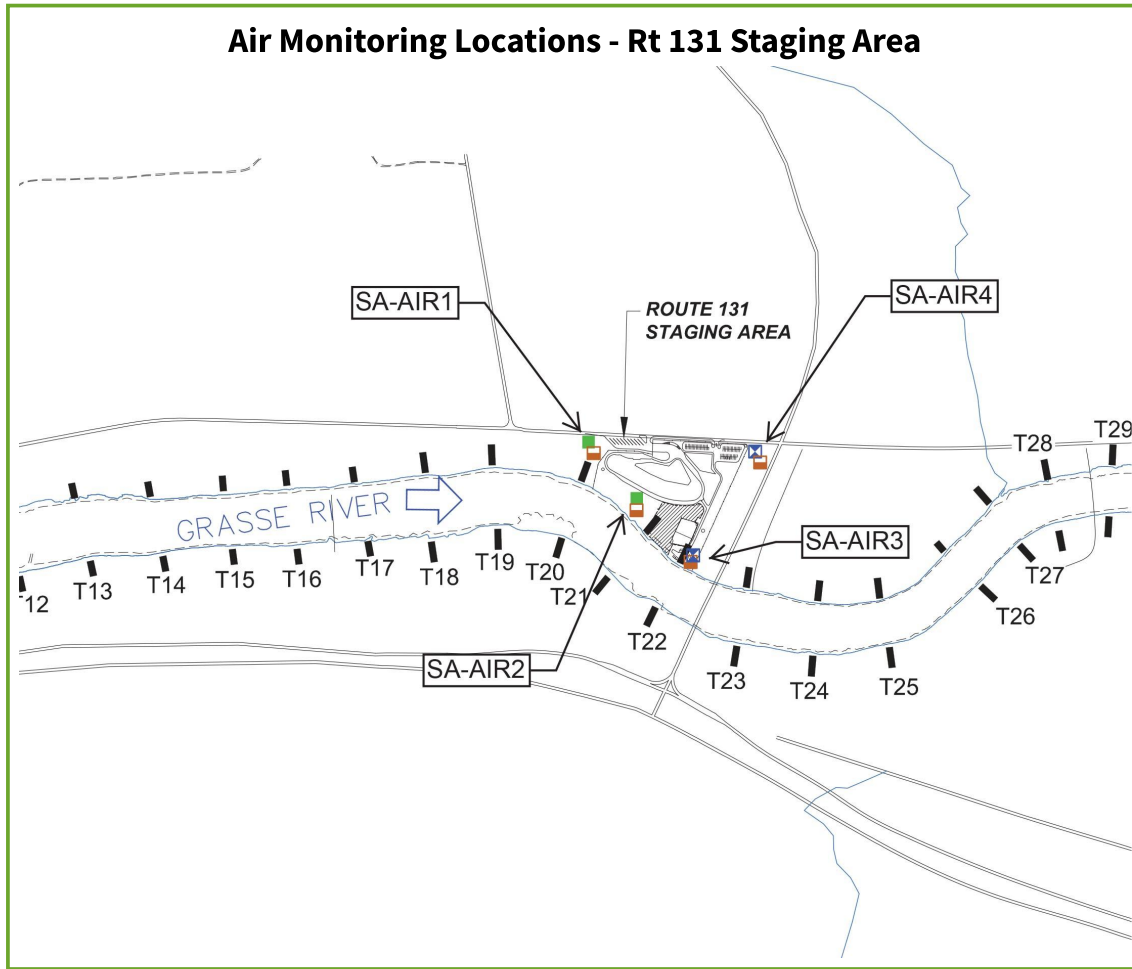
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Air Monitoring - 2021 Route 131 Staging Area

Program includes particulate monitoring using real-time meters for particulates (or dust) and volatile organic compounds (VOCs) and sampling for PCB analytical testing during handling of potential PCB-containing material. Corrective action levels have been established based on levels that are safe for the community for particulates, VOCs, and PCBs. The actual monitoring results are compared to the corrective action levels to determine if adjustments in construction are needed.

The air monitoring locations and tabulated results are provided below.

Note that air monitoring for PCBs was discontinued in June as material handling was completed. Air monitoring also transitioned to particulate (dust) only once PCB material handling was completed.



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

		Monitoring Station ID (see figure)				
Date	Action Level Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
July 1	All Below	0.0159	0.0066	0.0121	0.0835	--
July 2	All Below	0.0235	0.0161	0.0238	0.0248	--
July 3	All Below	0.0156	0.0123	0.015	0.0171	--
July 7	All Below	0.0754	0.0556	0.0785	0.0888	--
July 8	All Below	0.0272	0.0135	0.0214	0.0187	--
July 9	All Below	0.0127	0.0152	0.0149	0.0158	--
July 10	All Below	0.009	0.0081	0.0144	0.0135	--

		Monitoring Station ID (see figure)				
Date	Action Level Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
July 11	All Below	0.0158	0.0126	0.0267	0.0276	--
July 13	All Below	0.0251	0.0242	0.0259	0.026	--
July 14	All Below	0.0221	0.0144	0.0147	0.0173	--
July 15	All Below	0.0162	0.0118	0	0.0204	--
July 16	All Below	0.0245	0.0163	0.0232	0.0554	--
July 17	All Below	0.0313	0.0251	0.0284	0.0343	--
July 18	All Below	0.0554	0.0398	0.0593	0.0661	--
July 20	All Below	0.1248	0.0906	0.1206	0.1304	SA air levels not related to field activities
July 21	All Below	0.1431	0.108	0.1261	0.1458	SA air levels not related to field activities
July 22	All Below	0.0238	0.0153	0.028	0.0174	--
July 23	All Below	0.0263	0.015	0.0274	0.024	--
July 24	All Below	0.0215	0.0187	0.0221	0.0306	--
July 25	All Below	0.034	0.0262	0.0315	0.0315	--
July 27	All Below	0.1345	0.1083	0.1305	0.1482	SA air levels not related to field activities
July 28	All Below	0.0488	0.0409	0.0508	0.0755	--
July 29	All Below	0.0236	0.0178	0.0235	0.0201	--
July 30	All Below	0.0201	0.0133	0.0215	0.0169	--
July 31	All Below	0.0133	0.0112	0.0189	0.0107	--

NA = Data not collected in accordance with plan
 Particulates (milligrams per cubic meter)

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2021 Air Volatile Organic Compound Data (Corrective Action Level = 25 ppm above upwind location)

Date	Action Level Check	Monitoring Station ID (see figure)				Notes
		SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	
July 1	All Below	0	0	0.0016	0	--
July 2	All Below	0	0.0006	0	0	--
July 3	All Below	0	0.0001	0	0	--
July 7	All Below	0	0	0	0	--

NA = Data not collected in accordance with plan

Volatile Organic Compounds (VOCs parts per million)

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2021 Air PCB Data (Corrective Action Level = 0.100 microgram per cubic meter)

Date	Action Level Check	Monitoring Station ID (see figure)				Notes
		SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	
July 1	All Below	Below detectable levels	Below detectable levels	0.000110	0.000110	- -

NA = Analysis not required in accordance with plan

Total PCBs (micrograms per cubic meter)

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Air Monitoring - 2021 Dredge Mobile River Stations

Program includes sampling for PCB analytical testing. The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Note that air monitoring for PCBs was performed in April through June concurrent with the river dredge operations. Dredging is complete.

Air Monitoring Locations - Dredge Corridor



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Air Monitoring - 2021 Haverstock Road Support Area

Program includes particulate monitoring using real-time meters for particulates (or dust). The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Air Monitoring Locations - Haverstock Road Area



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

		Monitoring Station ID (see figure)			
Date	Action Level Check	HAV-AIR1	HAV-AIR2	HAV-AIR3	Notes
July 1	All Below	0.0254	0.0058	0.0191	--
July 2	All Below	0.0222	0.0159	0.0298	--
July 3	All Below	0.022	0.0094	0.0241	--
July 7	All Below	0.0885	0.089	0.0859	--
July 8	All Below	0.0189	0.0169	0.0273	--
July 9	All Below	0.0174	0.0105	0.02	--
July 10	All Below	0.014	0.0087	0.0171	--
July 11	All Below	0.0189	0.0155	0.0259	--
July 13	All Below	0.0315	0.0299	0.0345	--
July 14	All Below	0.0235	0.019	0.0236	--
July 15	All Below	0.0249	0.0199	0.0248	--
July 16	All Below	0.0361	0.0367	0.0362	--
July 17	All Below	0.036	0.1007	0.0998	HAV-AIR2 levels not related to field activities
July 18	All Below	0.0398	0.055	0.055	--
July 20	All Below	0.0209	0	0.036	--
July 21	All Below	0.1292	0.1811	0.1634	HAV air levels not related to field activities
July 22	All Below	0.007	0.0221	0.039	--
July 23	All Below	0.042	0.0341	0.0392	--
July 24	All Below	0.0279	0.0241	0.0396	--

		Monitoring Station ID (see figure)			
Date	Action Level Check	HAV-AIR1	HAV-AIR2	HAV-AIR3	Notes
July 25	All Below	0.0455	0.0429	0.0481	--
July 27	All Below	0.1347	0.1709	0.1433	HAV air levels not related to field activities
July 28	All Below	0.0507	0.0655	0.0676	--
July 29	All Below	0.0248	0.03	0.0343	--
July 30	All Below	0.0205	0.025	0.0368	--
July 31	All Below	0.0165	0.0192	0.0364	--

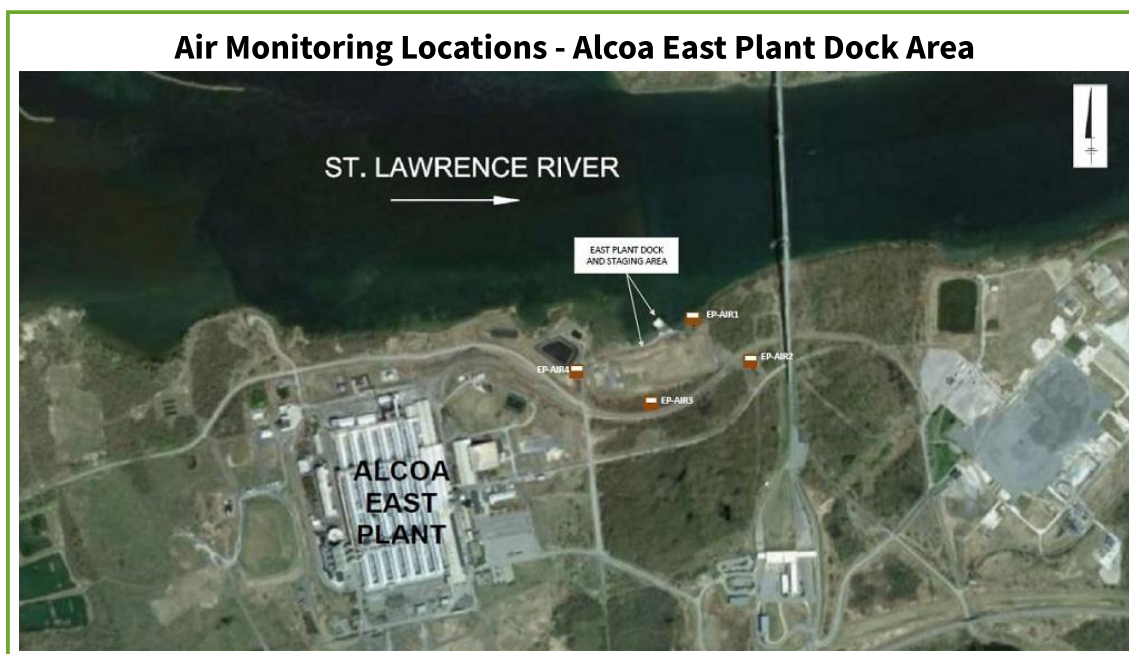
NA = Data not collected in accordance with plan

Particulates (milligrams per cubic meter)

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Air Monitoring - 2021 Alcoa East Plant Dock Area

Program includes particulate monitoring using real-time meters for particulates (or dust). The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below. Monitoring is only performed when there is active work at this area.



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

		Monitoring Station ID (see figure)				
Date	Action Level Check	EP-AIR1	EP-AIR2	EP-AIR3	EP-AIR4	Notes
July 1	All Below	0.0256	0.0135	0.0088	0.0134	--
July 2	All Below	0.005	0.003	0	0.004	--

NA = Data not collected in accordance with plan

Particulates (milligrams per cubic meter)

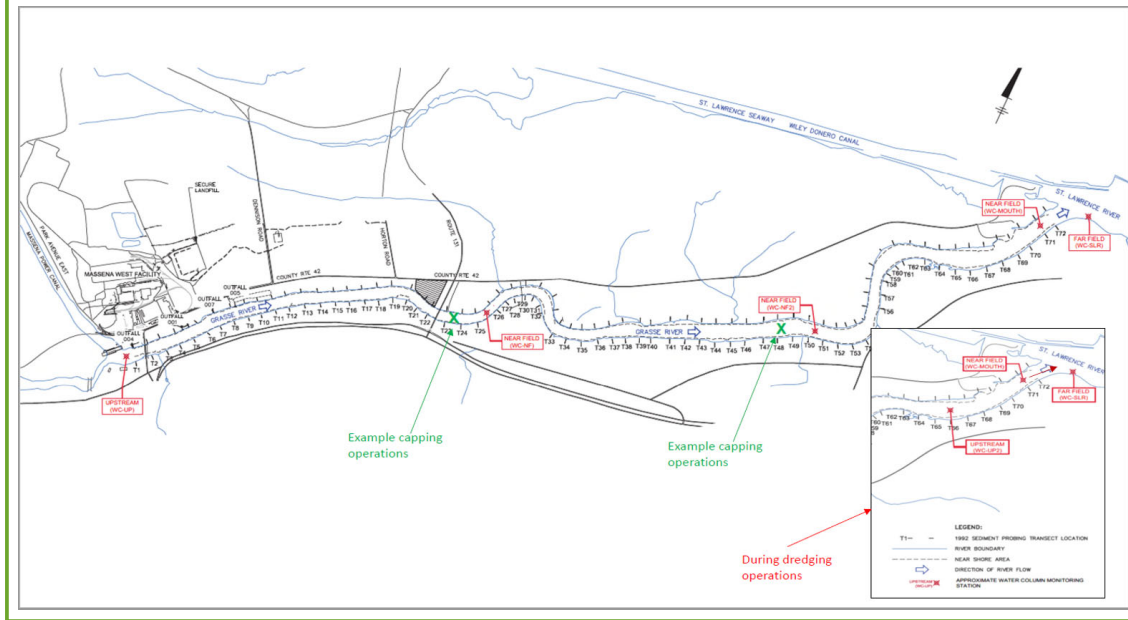
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Water Monitoring - 2021 River Remediation

Program includes turbidity monitoring using real-time meters for solids and PCB analytical testing at the water intake locations and total suspended solids (TSS) and PCB analytical testing at the river locations. Corrective action levels have been established based on levels that are safe for the community for both solids and PCBs. The actual monitoring results will be compared to the corrective action levels to determine if adjustments in construction are needed. The water locations and tabulated results are provided below.

Monitoring was performed for 50+ days with half of these days including capping only and the other half with capping and dredging. PCBs were not detected in any samples during routine monitoring. Water monitoring for PCBs was discontinued in June based on these results. Monitoring for solids will continue through the end of construction.

Water Column Monitoring Locations



2021 Water Column Total Suspended Solids Data (Corrective Action Level = 100 mg/L above WC-UP Level at WC-SLR)

		Monitoring Station ID (see figure)						
Date	Action Level Check	WC-UP1	WC-NF2	WC-NF	WC-NF3	WC-MOUTH	WC-SLR	Notes
July 1	All Below	Below detectable levels	19	50	NA	13	Below detectable levels	- -
July 2	All Below	Below detectable levels	36	83	NA	12	5.3	- -
July 6	All Below	NA	5.9	7.0	NA	6.0	Below detectable levels	- -
July 7	All Below	Below detectable levels	19	75	NA	9.1	Below detectable levels	- -
July 8	All Below	Below detectable levels	25	79	NA	9.0	5.2	- -
July 9	All Below	Below detectable levels	22	50	NA	20	16	- -

		Monitoring Station ID (see figure)						
Date	Action Level Check	WC-UP1	WC-NF2	WC-NF	WC-NF3	WC-MOUTH	WC-SLR	Notes
July 10	All Below	Below detectable levels	21	51	NA	18	13	- -
July 12	All Below	Below detectable levels	Below detectable levels	Below detectable levels	NA	Below detectable levels	5.8	- -
July 13	All Below	Below detectable levels	17	13	NA	20	9.6	- -
July 14	All Below	Below detectable levels	7.0	16	NA	13	Below detectable levels	- -
July 15	All Below	Below detectable levels	11	14	NA	12	Below detectable levels	- -
July 16	All Below	Below detectable levels	9.9	14	NA	11	Below detectable levels	- -
July 17	All Below	Below detectable levels	5.6	20	NA	12	Below detectable levels	- -
July 19	All Below	Below detectable levels	Below detectable levels	8.1	NA	8.3	Below detectable levels	- -
July 20	All Below	5.4	Below detectable levels	17	NA	11	Below detectable levels	- -
July 21	All Below	6.1	22	9.6	NA	11	Below detectable levels	- -
July 22	All Below	5.4	17	29	NA	19	Below detectable levels	- -
July 23	All Below	Below detectable levels	10	12	NA	15	Below detectable levels	- -
July 24	All Below	Below detectable levels	48	21	NA	18	6.5	- -
July 26	All Below	Below detectable levels	5.6	9.4	NA	NA	Below detectable levels	- -

		Monitoring Station ID (see figure)						
Date	Action Level Check	WC-UP1	WC-NF2	WC-NF	WC-NF3	WC-MOUTH	WC-SLR	Notes
July 27	All Below	Below detectable levels	12	24	NA	12	Below detectable levels	- -
July 28	All Below	Below detectable levels	38	24	NA	23	Below detectable levels	- -
July 29	All Below	Below detectable levels	58	21	NA	38	Below detectable levels	- -
July 30	All Below	Below detectable levels	94	37	NA	37	8.4	- -
July 31	All Below	Below detectable levels	37	22	NA	23	Below detectable levels	- -

Total Suspended Solids (TSS; milligrams per liter)

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2021 Water Intake Turbidity Data (Corrective Action Level = 25 NTU above Baseline Level)

		Monitoring Station ID (see figure)			
Date	Action Level Check	IN-AE-RAW	IN-SRMT-RAW	IN-SRMT-FIL	Notes
July 1	All Below	0.6	4.3	0.1	--
July 2	All Below	1.8	1.6	0.1	--
July 6	All Below	1.1	1.9	0.1	--
July 7	All Below	0.9	1.7	0.1	--
July 8	All Below	0.8	1.6	0.1	--


Date	Action Level Check	Monitoring Station ID (see figure)			Notes
		IN-AE-RAW	IN-SRMT-RAW	IN-SRMT-FIL	
July 9	All Below	0.8	1.8	0.0	--
July 10	All Below	1.2	2.0	0.0	--
June 12	All Below	4.0	2.2	0.0	--
June 13	All Below	1.0	1.7	0.0	--
June 14	All Below	2.8	1.5	0.1	--
July 15	All Below	1.7	1.5	0.1	--
July 16	All Below	2.3	1.5	0.2	--
July 17	All Below	0.7	1.6	0.0	--
July 19	All Below	1.7	1.5	0.0	--
July 20	All Below	1.6	1.4	0.0	--
July 21	All Below	1.0	1.7	0.1	--
July 22	All Below	1.2	2.0	0.1	--
July 23	All Below	1.2	1.5	0.0	--
July 24	All Below	1.2	1.6	0.1	--
July 26	All Below	2.6	1.6	0.1	--
July 27	All Below	1.3	1.6	0.2	--
July 28	All Below	1.2	1.9	0.1	--
July 29	All Below	1.1	1.8	0.1	--
July 30	All Below	1.8	1.9	0.0	--
July 31	All Below	1.2	1.5	0.1	--

Turbidity (Nephelometric Turbidity Unit)

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MORE INFORMATION

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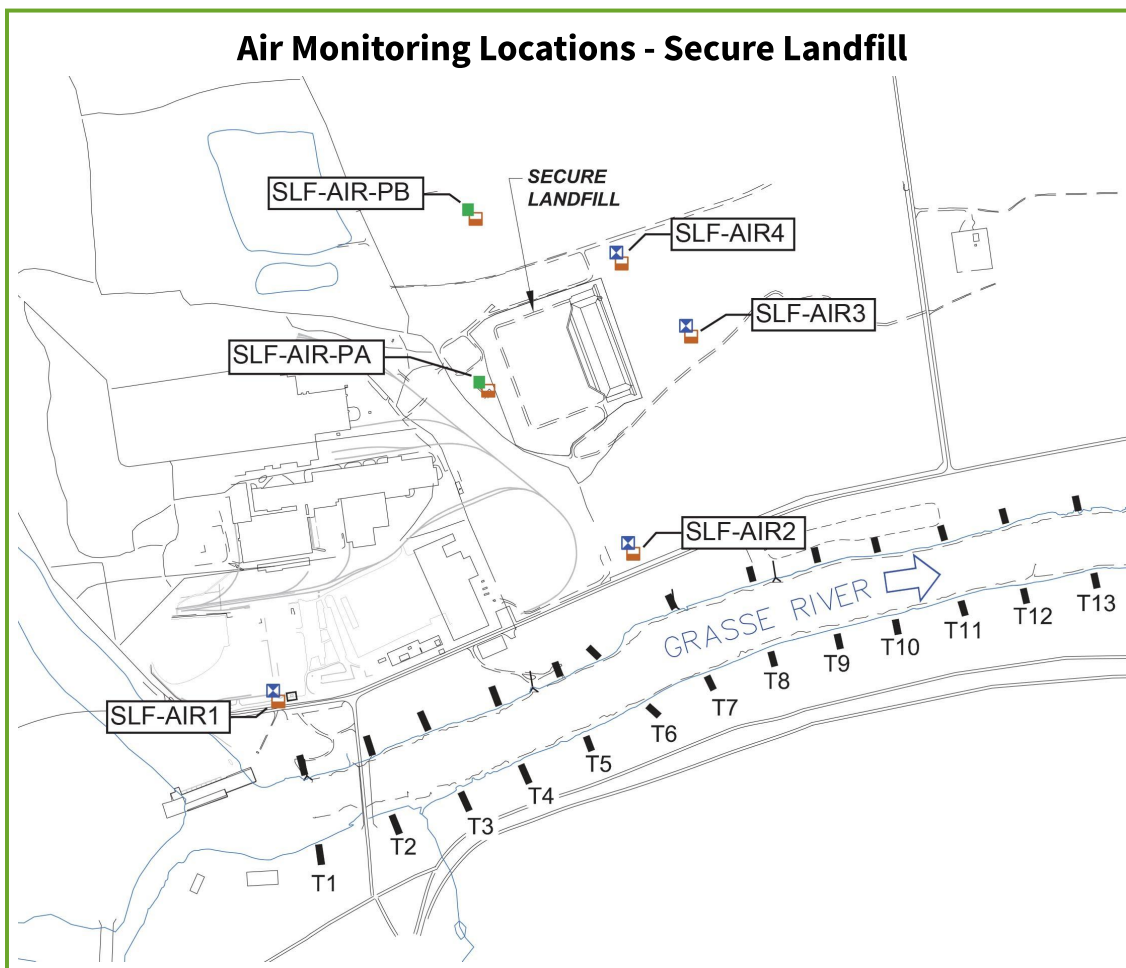
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Air Monitoring - 2021 Secure Landfill Construction and Operation

Program includes particulate monitoring using real-time meters for particulates (or dust) and volatile organic compounds (VOCs) and sampling for PCB analytical testing. Corrective action levels have been established based on levels that are safe for the community for particulates, VOCs, and PCBs. The actual monitoring results are compared to the corrective action levels to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Note that air monitoring for PCBs and VOCs was discontinued in June as material handling and disposal operations were completed. Air monitoring for dust was also discontinued in June as landfill construction and covering efforts were completed. Additional dust monitoring will be performed if final covering activities are performed this year.

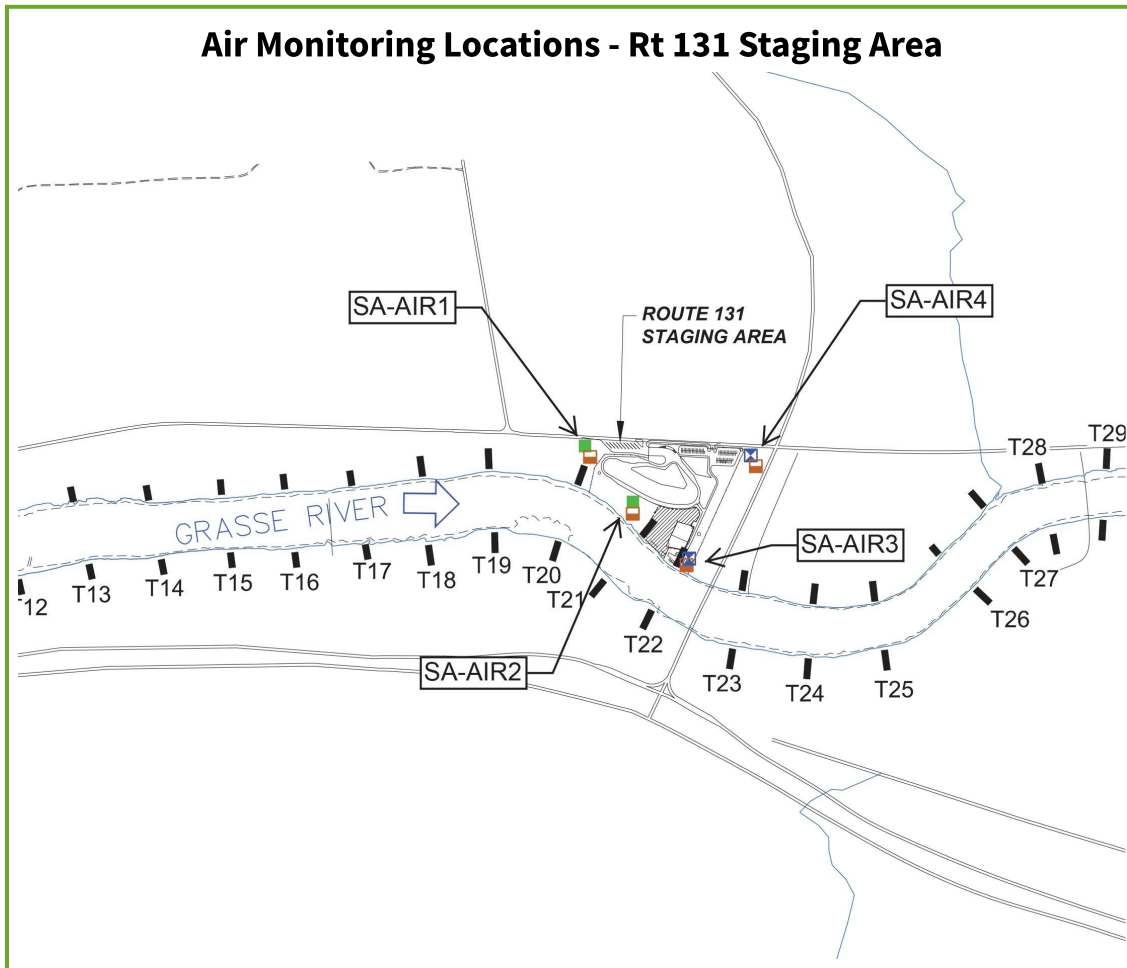


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Air Monitoring - 2021 Route 131 Staging Area

Program includes particulate monitoring using real-time meters for particulates (or dust) and volatile organic compounds (VOCs) and sampling for PCB analytical testing during handling of potential PCB-containing material. Corrective action levels have been established based on levels that are safe for the community for particulates, VOCs, and PCBs. The actual monitoring results are compared to the corrective action levels to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Note that air monitoring for PCBs was discontinued in June as material handling was completed. Air monitoring also transitioned to particulate (dust) only once PCB material handling was completed.



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

		Monitoring Station ID (see figure)				
Date	Action Level Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes

		Monitoring Station ID (see figure)				
	Action Level					
Date	Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
August 1	All Below	0.0392	0.0323	0.0273	0.0377	--
August 3	All Below	0.0093	0.0091	0.0115	0.0062	--
August 4	All Below	0.0213	0.0137	0.0217	0.0176	--
August 5	All Below	0.0327	0.0211	0.0336	0.0889	--
August 6	All Below	0.0954	0.0693	0.0946	0.1039	SA air levels not related to field activities
August 7	All Below	0.0942	0.0778	0.0968	0.1076	SA air levels not related to field activities
August 8	All Below	0.0412	0.0312	0.0396	0.0442	--
August 10	All Below	0.0331	0.0204	0.0343	0.0331	--
August 11	All Below	0.0393	0.0261	0.0341	0.0323	--
August 12	All Below	0.0273	0.0198	0.0302	0.0324	--
August 13	All Below	0.0223	0.0135	0.0251	0.0262	--
August 14	All Below	0.0262	0.0188	0.0295	0.0297	--
August 15	All Below	0.0101	0.0081	0.0175	0.0097	--
August 17	All Below	0.028	0.018	0.0271	0.0284	--
August 18	All Below	0.0192	0.0112	0.0183	0.0131	--
August 19	All Below	0.0123	0.0059	0.0288	0.0574	--
August 20	All Below	0.0166	0.01	0.0163	0.0127	--
August 21	All Below	0.0317	0.0195	0.0336	0.0342	--
August 22	All Below	0.0397	0.0296	0.0431	0.041	--

		Monitoring Station ID (see figure)				
	Action Level					
Date	Check	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
August 24	All Below	0.0114	0.0049	0.0153	0.0071	--
August 25	All Below	0.0192	0.0114	0.0256	0.0224	--
August 26	All Below	0.025	0.017	0.0276	0.0265	--
August 27	All Below	0.024	0.0166	0.029	0.0248	--
August 28	All Below	0.0082	0.0054	0.0165	0.0055	--
August 29	All Below	0.0088	0.0035	0.0133	0.0003	--
August 31	All Below	NA	NA	0.0231	NA	SA-AIR1, SA-AIR2, SA-AIR4 data not reported due to modem issue

NA = Data not collected in accordance with plan

Particulates (milligrams per cubic meter)

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Air Monitoring - 2021 Dredge Mobile River Stations

Program includes sampling for PCB analytical testing. The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Note that air monitoring for PCBs was performed in April through June concurrent with the river dredge operations. Dredging is complete.

Air Monitoring Locations - Dredge Corridor

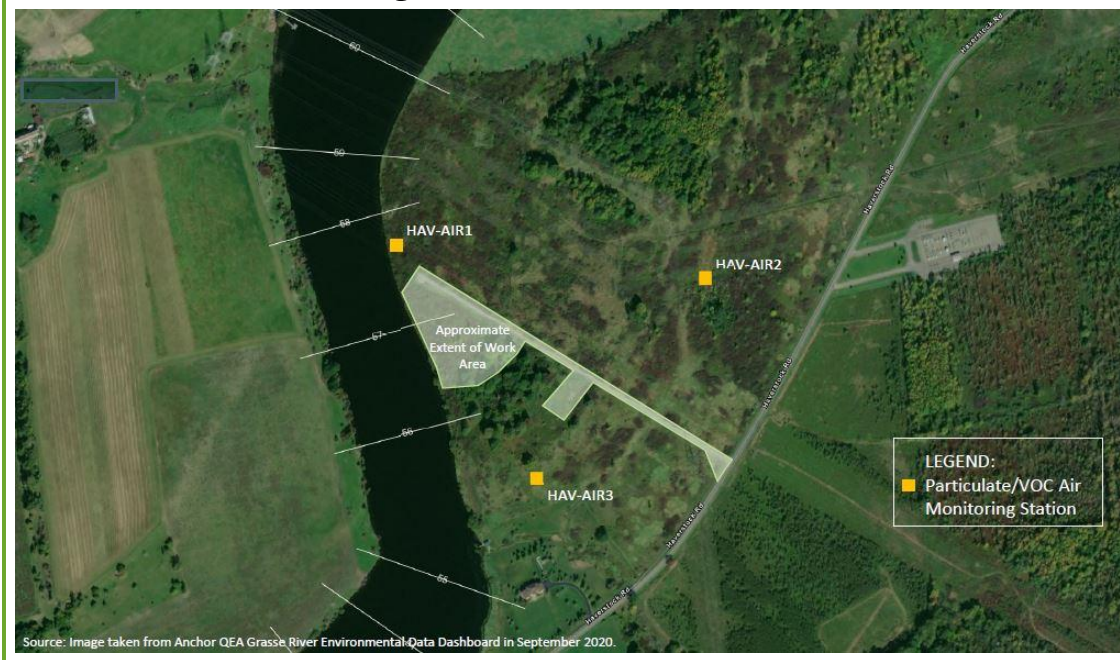


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Air Monitoring - 2021 Haverstock Road Support Area

Program includes particulate monitoring using real-time meters for particulates (or dust). The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Air Monitoring Locations - Haverstock Road Area



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

		Monitoring Station ID (see figure)			
	Action Level				
Date	Check	HAV-AIR1	HAV-AIR2	HAV-AIR3	Notes
August 1	All Below	0.0294	0.0225	0.0387	--
August 3	All Below	0.0171	0.0156	0.0271	--
August 4	All Below	0.0297	0.0271	0.033	--
August 5	All Below	0.0381	0.0478	0.054	--
August 6	All Below	0.0964	0.1801	0.19	HAV air levels not related to field activities
August 7	All Below	0.1019	0.1333	0.1199	HAV air levels not related to field activities
August 8	All Below	0.0477	0.0568	0.0587	--
August 10	All Below	0.0417	0.0512	0.0539	--
August 11	All Below	0.0475	0.0473	0.0506	--

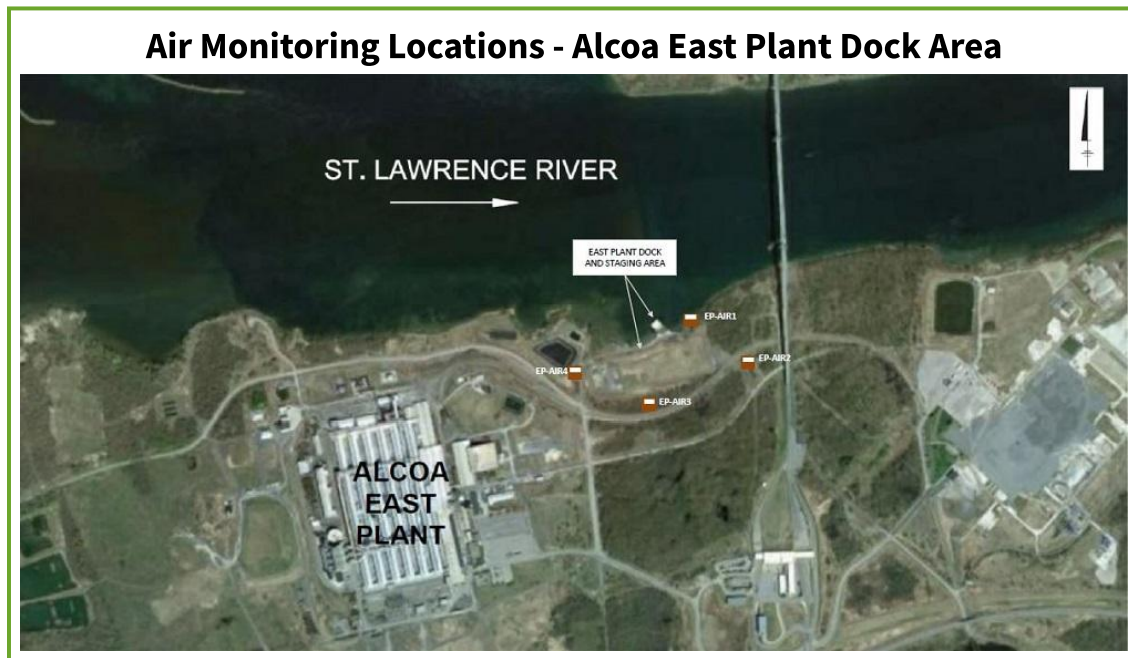
		Monitoring Station ID (see figure)			
	Action Level				
Date	Check	HAV-AIR1	HAV-AIR2	HAV-AIR3	Notes
August 12	All Below	0.042	0.0424	0.0466	--
August 13	All Below	0.0374	0.019	0.0405	--
August 14	All Below	0.0414	0.003	0.0475	--
August 15	All Below	0.0231	0.003	0.0363	--
August 17	All Below	0.0293	0.003	0.0471	--
August 18	All Below	0.0228	0.0107	0.0416	--
August 19	All Below	0.0228	0.008	0.0328	--
August 20	All Below	0.032	0.0081	0.0336	--
August 21	All Below	0.1114	0.0229	0.0417	HAV-AIR1 levels not related to field activities
August 22	All Below	0.076	0.0381	0.0696	--
August 24	All Below	0.0163	0.0063	0.0311	--
August 25	All Below	0.0338	0.0188	0.0451	--
August 26	All Below	0.0319	0.0198	0.0468	--
August 27	All Below	0.037	0.0192	0.0465	--
August 28	All Below	0.033	0.0067	0.0338	--
August 29	All Below	0.033	0.0048	0.0343	--
August 31	All Below	0.046	0.0077	0.235	HAV-AIR3 levels not related to field activities

NA = Data not collected in accordance with plan
 Particulates (milligrams per cubic meter)

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Air Monitoring - 2021 Alcoa East Plant Dock Area

Program includes particulate monitoring using real-time meters for particulates (or dust). The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below. Monitoring is only performed when there is active work at this area.



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

Date	Action Level Check	Monitoring Station ID (see figure)				Notes
		EP-AIR1	EP-AIR2	EP-AIR3	EP-AIR4	
August 1	All Below	0.0087	0.0074	0	0.0123	--
August 3	All Below	0.0301	0.0095	0	0.0156	--
August 4	All Below	0.0285	0.0172	0	0.0367	--
August 5	All Below	0.0517	0.0172	0	0.0523	--
August 26	All Below	0.0371	0.0293	0.0221	0.0293	--
August 27	All Below	0.0397	0.0289	0.0219	0.0263	--
August 28	All Below	0.0269	0.0115	0.0108	0.0306	--

Date	Action Level Check	Monitoring Station ID (see figure)				Notes
		EP-AIR1	EP-AIR2	EP-AIR3	EP-AIR4	
August 29	All Below	0.0261	0.0061	0.0103	0.0192	--
August 31	All Below	0.0311	0.0175	0.0164	0.0239	--

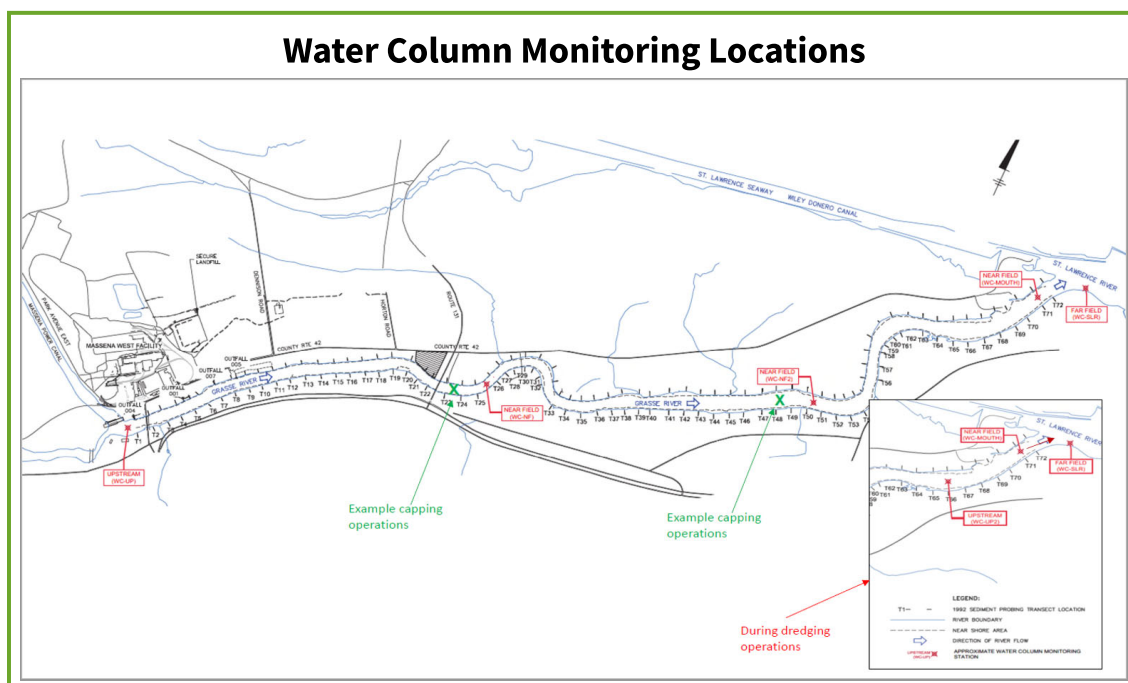
NA = Data not collected in accordance with plan
 Particulates (milligrams per cubic meter)

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Water Monitoring - 2021 River Remediation

Program includes turbidity monitoring using real-time meters for solids and PCB analytical testing at the water intake locations and total suspended solids (TSS) and PCB analytical testing at the river locations. Corrective action levels have been established based on levels that are safe for the community for both solids and PCBs. The actual monitoring results will be compared to the corrective action levels to determine if adjustments in construction are needed. The water locations and tabulated results are provided below.

Monitoring was performed for 50+ days with half of these days including capping only and the other half with capping and dredging. PCBs were not detected in any samples during routine monitoring. Water monitoring for PCBs was discontinued in June based on these results. Monitoring for solids will continue through the end of construction.



2021 Water Column Total Suspended Solids Data (Corrective Action Level = 100 mg/L above WC-UP Level at WC-SLR)

		Monitoring Station ID (see figure)						
Date	Action Level Check	WC-UP1	WC-NF2	WC-NF	WC-NF3	WC-MOUTH	WC-SLR	Notes
August 2	All Below	Below detectable levels	26	20	NA	NA	Below detectable levels	- -
August 3	All Below	Below detectable levels	51	35	NA	NA	9.6	- -
August 4	All Below	Below detectable levels	17	22	NA	NA	5.3	- -
August 5	All Below	Below detectable levels	18	11	NA	13	6.3	- -
August 6	All Below	Below detectable levels	14	29	NA	25	5.1	- -
August 7	All Below	Below detectable levels	15	18	NA	18	9.6	- -
August 9	All Below	Below detectable levels	9.5	19	NA	15	Below detectable levels	- -
August 10	All Below	Below detectable levels	64	6.0	7.5	NA	5.0	- -
August 11	All Below	Below detectable levels	17	22	NA	22	Below detectable levels	- -
August 12	All Below	Below detectable levels	14	28	NA	17	Below detectable levels	- -
August 13	All Below	Below detectable levels	33	58	NA	19	Below detectable levels	- -

		Monitoring Station ID (see figure)						
Date	Action Level Check	WC-UP1	WC-NF2	WC-NF	WC-NF3	WC-MOUTH	WC-SLR	Notes
August 14	All Below	Below detectable levels	24	38	NA	24	6.9	- -
August 16	All Below	Below detectable levels	NA	11	NA	16	Below detectable levels	- -
August 17	All Below	Below detectable levels	33	16	NA	19	Below detectable levels	- -
August 18	All Below	Below detectable levels	24	32	NA	24	5.7	- -
August 19	All Below	Below detectable levels	30	22	NA	14	Below detectable levels	- -
August 20	All Below	Below detectable levels	28	27	NA	23	5.1	- -
August 21	All Below	Below detectable levels	20	34	NA	23	Below detectable levels	- -
August 23	All Below	Below detectable levels	Below detectable levels	14	NA	NA	Below detectable levels	- -
August 24	All Below	Below detectable levels	17	14	NA	NA	7.0	- -
August 25	All Below	Below detectable levels	NA	30	NA	20	Below detectable levels	- -
August 26	All Below	Below detectable levels	NA	33	NA	30	5.5	- -
August 27	All Below	Below detectable levels	82	27	NA	NA	5.1	- -
August 28	All Below	Below detectable levels	130	86	NA	NA	12	- -

		Monitoring Station ID (see figure)						
Date	Action Level Check	WC-UP1	WC-NF2	WC-NF	WC-NF3	WC-MOUTH	WC-SLR	Notes
August 30	All Below	Below detectable levels	NA	14	NA	13	5.8	- -
August 31	All Below	Below detectable levels	NA	64	NA	26	5.8	- -

Total Suspended Solids (TSS; milligrams per liter)

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2021 Water Intake Turbidity Data (Corrective Action Level = 25 NTU above Baseline Level)

		Monitoring Station ID (see figure)			
Date	Action Level Check	IN-AE-RAW	IN-SRMT-RAW	IN-SRMT-FIL	Notes
August 2	All Below	1.6	1.4	0.1	--
August 3	All Below	1.1	1.4	0.1	--
August 4	All Below	1.1	1.5	0.2	--
August 5	All Below	1.0	0.5	0.1	--
August 6	All Below	0.9	1.5	0.1	--
August 7	All Below	0.9	1.7	0.0	--
August 9	All Below	1.3	1.0	0.1	--
August 10	All Below	1.0	1.4	0.0	--
August 11	All Below	1.5	1.1	0.1	--
August 12	All Below	1.5	1.3	0.1	--

Date	Action Level Check	Monitoring Station ID (see figure)			Notes
		IN-AE-RAW	IN-SRMT-RAW	IN-SRMT-FIL	
August 13	All Below	1.6	1.3	0.0	--
August 14	All Below	1.8	1.5	0.1	--
August 16	All Below	0.9	2.5	0.2	--
August 17	All Below	1.0	1.4	0.1	--
August 18	All Below	1.3	1.4	0.1	--
August 19	All Below	1.0	2.4	0.1	--
August 20	All Below	1.2	1.6	0.1	--
August 21	All Below	1.0	1.5	0.0	--
August 23	All Below	1.1	1.5	0.1	--
August 24	All Below	2.2	2.7	0.2	--
August 25	All Below	1.7	1.3	0.1	--
August 26	All Below	1.5	1.7	0.1	--
August 27	All Below	1.3	2.3	0.1	--
August 28	All Below	1.3	1.7	0.2	--
August 30	All Below	3.1	4.0	0.0	--
August 31	All Below	2.1	1.5	0.0	--

Turbidity (Nephelometric Turbidity Unit)

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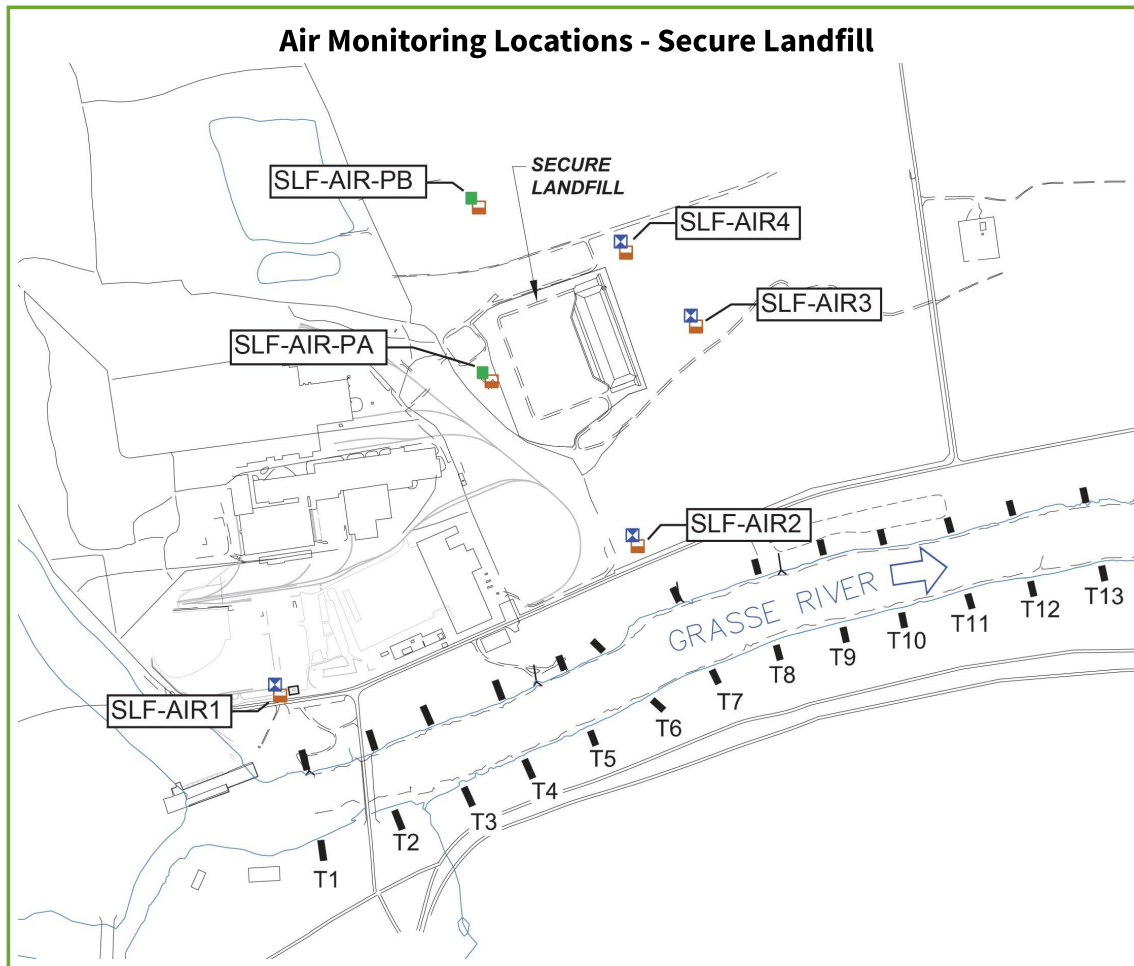
Environmental monitoring for the 2021 construction includes water and air. Air monitoring is being performed around the secure landfill, Route 131 Staging Area, Haverstock Road Staging Area, and Alcoa East Plant dock during construction at those locations. Water monitoring is being performed in the river and at water intakes. These monitoring activities and results for **September** are summarized below. **(Additional 2021 Lab Results: [Current Month \(monitoringConstruction2021.html\)](#) | [April \(monitoringConstruction2021_April.html\)](#) | [May \(monitoringConstruction2021_May.html\)](#) | [June \(monitoringConstruction2021_June.html\)](#) | [July \(monitoringConstruction2021_July.html\)](#) | [August \(monitoringConstruction2021_August.html\)](#) | [September \(monitoringConstruction2021_September.html\)](#))**

- [Air Monitoring - 2021 Secure Landfill](#)
- [Air Monitoring - 2021 Route 131 Staging Area](#)
- [Air Monitoring - 2021 Dredge Mobile River Stations](#)
- [Air Monitoring - 2021 Haverstock Road Staging Area](#)
- [Air Monitoring - 2021 Alcoa East Plant Dock](#)
- [Water Monitoring - 2021 River Remediation](#)

Air Monitoring - 2021 Secure Landfill Construction and Operation

Program includes particulate monitoring using real-time meters for particulates (or dust) and volatile organic compounds (VOCs) and sampling for PCB analytical testing. Corrective action levels have been established based on levels that are safe for the community for particulates, VOCs, and PCBs. The actual monitoring results are compared to the corrective action levels to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Note that air monitoring for PCBs and VOCs was discontinued in June as material handling and disposal operations were completed. Air monitoring for dust was also discontinued in June as landfill construction and covering efforts were completed. Additional dust monitoring will be performed if final covering activities are performed this year.

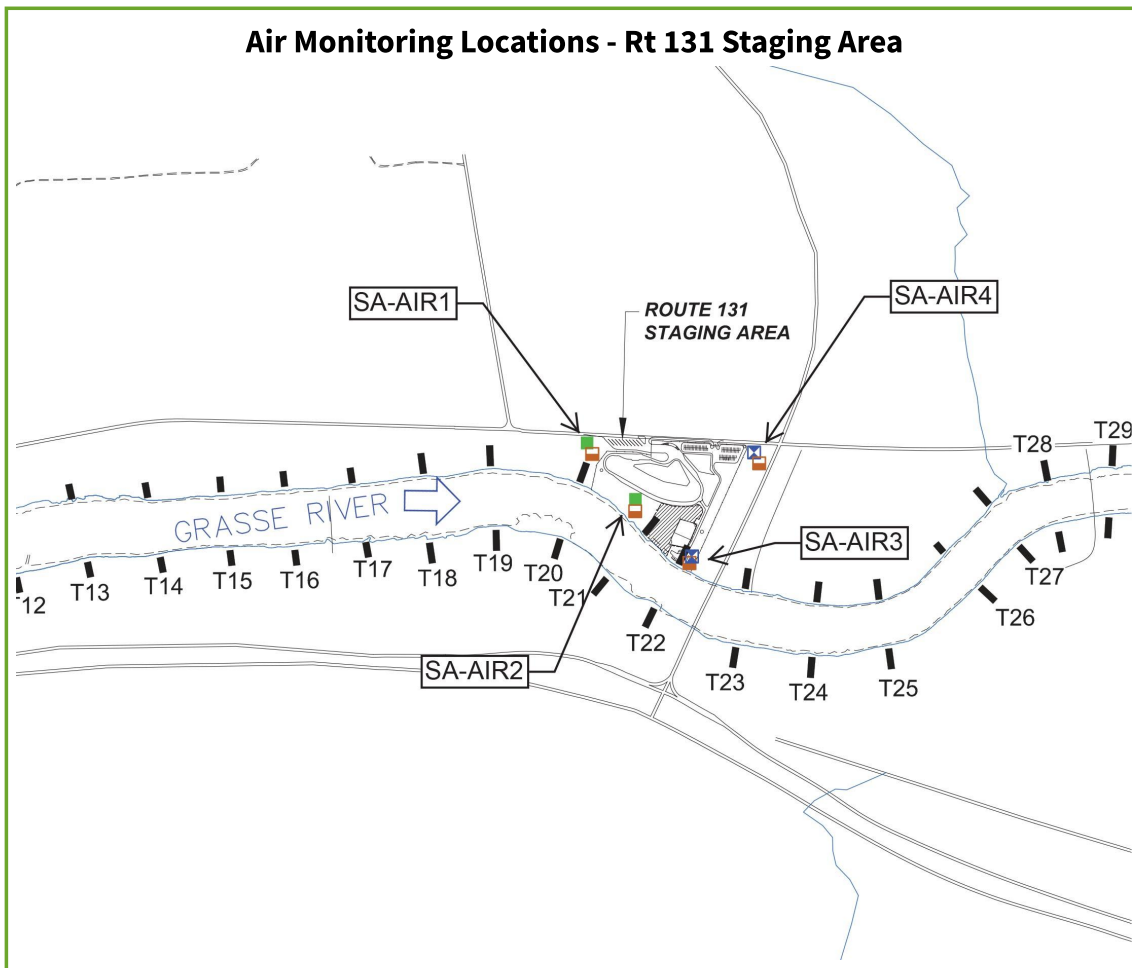


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Air Monitoring - 2021 Route 131 Staging Area

Program includes particulate monitoring using real-time meters for particulates (or dust) and volatile organic compounds (VOCs) and sampling for PCB analytical testing during handling of potential PCB-containing material. Corrective action levels have been established based on levels that are safe for the community for particulates, VOCs, and PCBs. The actual monitoring results are compared to the corrective action levels to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Note that air monitoring for PCBs was discontinued in June as material handling was completed. Air monitoring also transitioned to particulate (dust) only once PCB material handling was completed.



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

Date	Action Level Check	Monitoring Station ID (see figure)				Notes
		SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	
September 1	All Below	NA	NA	0.0184	NA	SA-AIR1, SA-AIR2, SA-AIR4 data not reported due to modem issue
September 2	All Below	NA	NA	0.0269	NA	SA-AIR1, SA-AIR2, SA-AIR4 data not reported due to modem issue
September 3	All Below	NA	NA	0.014	NA	SA-AIR1, SA-AIR2, SA-AIR4 data not reported due to modem issue
September 4	All Below	0.0083	0.0041	0.0097	0.0192	--
September 5	All Below	0.0182	0.0043	0.0219	0.017	--
September 8	All Below	0.0099	0.0096	0.0109	0.0184	--
September 9	All Below	0.0131	0.0155	0.0164	0.0218	--

		Monitoring Station ID (see figure)				
Date	Action Level	SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	Notes
	Check					
September 10	All Below	0.0099	0.0119	0.017	0.0149	--
September 11	All Below	0.0036	0.0106	0.0081	0.0205	--
September 12	All Below	0.0077	0.0105	0.0135	0.0225	--
September 14	All Below	0.0043	0.0074	0.0112	0.007	--
September 15	All Below	0.0341	0.0322	0.0345	0.0394	--
September 16	All Below	0.0051	0.0082	0.0188	0.0434	--
September 17	All Below	0.003	0.0077	0.0061	0.0179	--
September 18	All Below	0.015	0.0126	0.0153	0.0161	--
September 19	All Below	0.0108	0.0107	0.0141	0.0153	--
September 21	All Below	0.0051	0.0097	0.0084	0.0103	--
September 22	All Below	0.0057	0.0095	0.0085	0.0106	--
September 23	All Below	0.0108	0.0087	0.012	0.0142	--
September 24	All Below	0.0032	0.0073	0.0056	0.0074	--
September 25	All Below	0.002	0.0081	0.0051	0.0053	--
September 26	All Below	0.0049	0.0107	0.0152	0.0107	--
September 28	All Below	0.0077	0.011	0.0143	0.0167	--
September 29	All Below	0.0075	0.0101	0.0112	0.0111	--
September 30	All Below	0.0036	0.0116	0.0108	0.0214	--

NA = Data not collected in accordance with plan

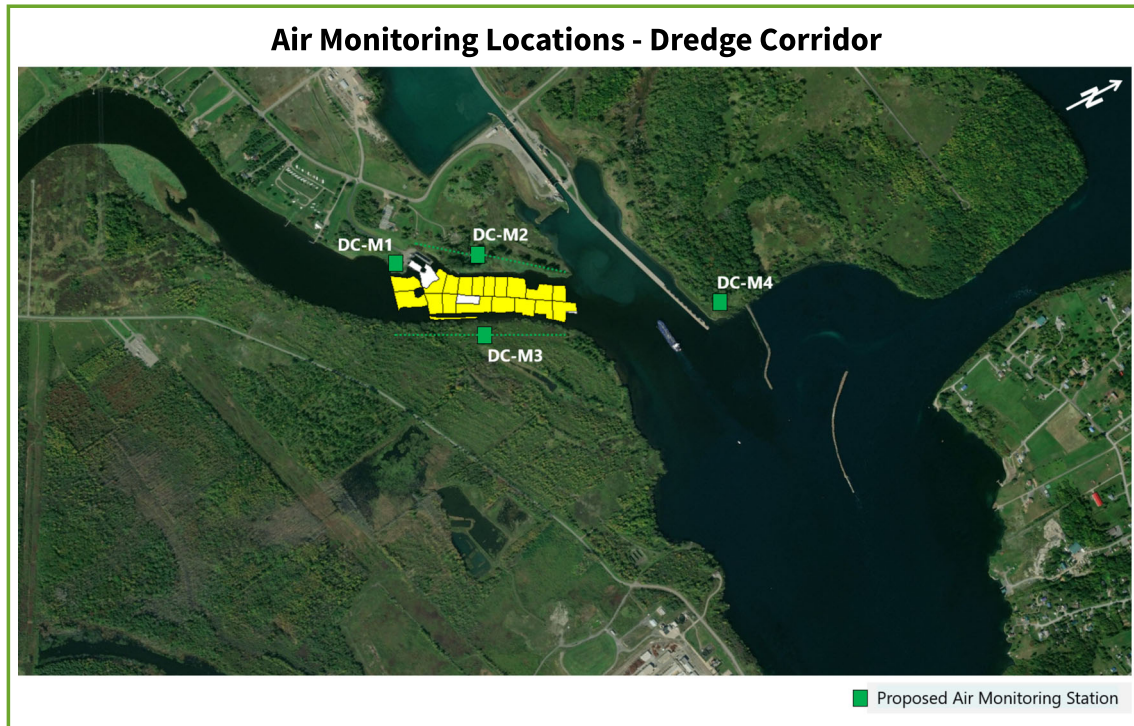
Particulates (milligrams per cubic meter)

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Air Monitoring - 2021 Dredge Mobile River Stations

Program includes sampling for PCB analytical testing. The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Note that air monitoring for PCBs was performed in April through June concurrent with the river dredge operations. Dredging is complete.

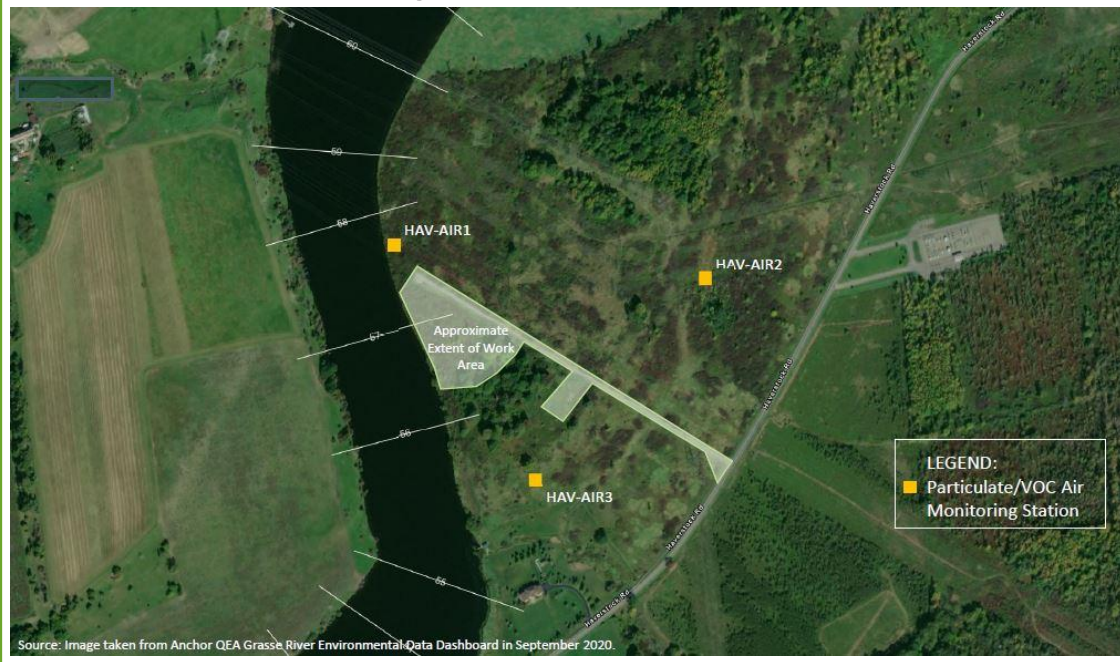


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Air Monitoring - 2021 Haverstock Road Support Area

Program includes particulate monitoring using real-time meters for particulates (or dust). The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Air Monitoring Locations - Haverstock Road Area



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

		Monitoring Station ID (see figure)			
Date	Action Level Check	HAV-AIR1	HAV-AIR2	HAV-AIR3	Notes
September 1	All Below	0.0242	0.0107	0.047	--
September 2	All Below	0.0198	0.0061	0.047	--
September 3	All Below	0.015	0.002	0.0366	--
September 4	All Below	0.014	0.0041	0.0323	--
September 5	All Below	0.015	0.0057	0.045	--
September 8	All Below	0.0193	0.0102	0.032	
September 9	All Below	0.0261	0.015	0.0345	
September 10	All Below	0.0211	0.0128	0.0218	--
September 11	All Below	0.016	0.0085	0.0202	--
September 12	All Below	0.008	0.002	0.0191	--
September 14	All Below	0.0172	0.0116	0.0165	--
September 15	All Below	0.0515	0.0046	0.0453	--
September 16	All Below	0.0176	0.0038	0.0156	--
September 17	All Below	0.0158	0.0052	0.0147	--

		Monitoring Station ID (see figure)			
Date	Action Level Check	HAV-AIR1	HAV-AIR2	HAV-AIR3	Notes
September 18	All Below	0.0239	0.0147	0.02	--
September 19	All Below	0.015	0.135	0.0175	HAV-AIR2 levels not related to field activities.
September 21	All Below	0.0173	0.0101	0.0206	--
September 22	All Below	0.0179	0.0102	0.0263	--
September 23	All Below	0.0207	0.0094	0.03	--
September 24	All Below	0.0154	0.0044	0.005	--
September 25	All Below	0.0132	0	0.0154	--
September 26	All Below	0.016	0.001	0.0218	--
September 28	All Below	0.014	0.0154	0.0487	--
September 29	All Below	0.0152	0.0054	0.0157	--
September 30	All Below	0.0143	0.005	0.0152	--

NA = Data not collected in accordance with plan

Particulates (milligrams per cubic meter)

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Air Monitoring - 2021 Alcoa East Plant Dock Area

Program includes particulate monitoring using real-time meters for particulates (or dust). The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below. Monitoring is only performed when there is active work at this area.

Air Monitoring Locations - Alcoa East Plant Dock Area



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

Date	Action Level Check	Monitoring Station ID (see figure)				Notes
		EP-AIR1	EP-AIR2	EP-AIR3	EP-AIR4	
September 1	All Below	0.037	0.0192	0.0205	0.027	--
September 2	All Below	0.0342	0.0179	0.0137	0.0252	--
September 3	All Below	0.028	0.0114	0.005	0.0188	--
September 4	All Below	0.0252	0.0166	0.005	0.019	--
September 15	All Below	0.0487	0.0428	0.0353	0.0442	--
September 16	All Below	0.0238	0.0096	0.0078	0.0174	--
September 17	All Below	0.025	0.0076	0.0103	0.0089	--
September 18	All Below	0.0292	0.0291	0.021	0.0183	--
September 26	All Below	0.0359	0.0179	0.0826	0.0227	--
September 29	All Below	0.0213	0.0083	0.009	0.0094	--
September 30	All Below	0.0256	0.0108	0.0084	0.0119	--

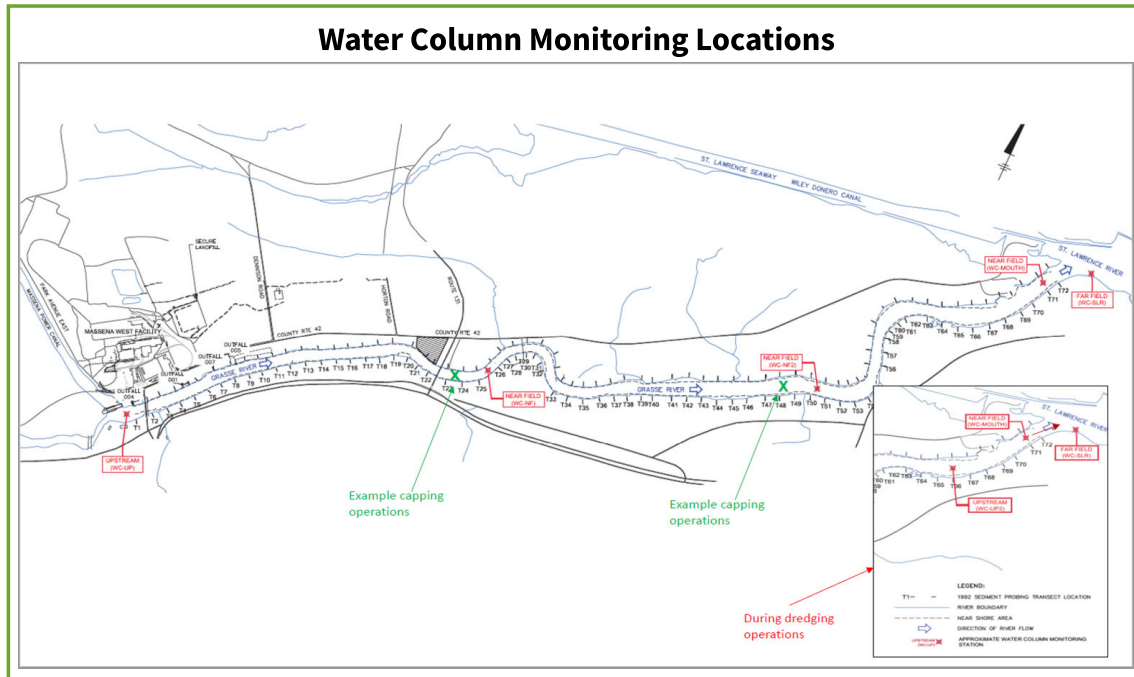
NA = Data not collected in accordance with plan
 Particulates (milligrams per cubic meter)

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Water Monitoring - 2021 River Remediation

Program includes turbidity monitoring using real-time meters for solids and PCB analytical testing at the water intake locations and total suspended solids (TSS) and PCB analytical testing at the river locations. Corrective action levels have been established based on levels that are safe for the community for both solids and PCBs. The actual monitoring results will be compared to the corrective action levels to determine if adjustments in construction are needed. The water locations and tabulated results are provided below.

Monitoring was performed for 50+ days with half of these days including capping only and the other half with capping and dredging. PCBs were not detected in any samples during routine monitoring. Water monitoring for PCBs was discontinued in June based on these results. Monitoring for solids will continue through the end of construction.



2021 Water Column Total Suspended Solids Data (Corrective Action Level = 100 mg/L above WC-UP Level at WC-SLR)

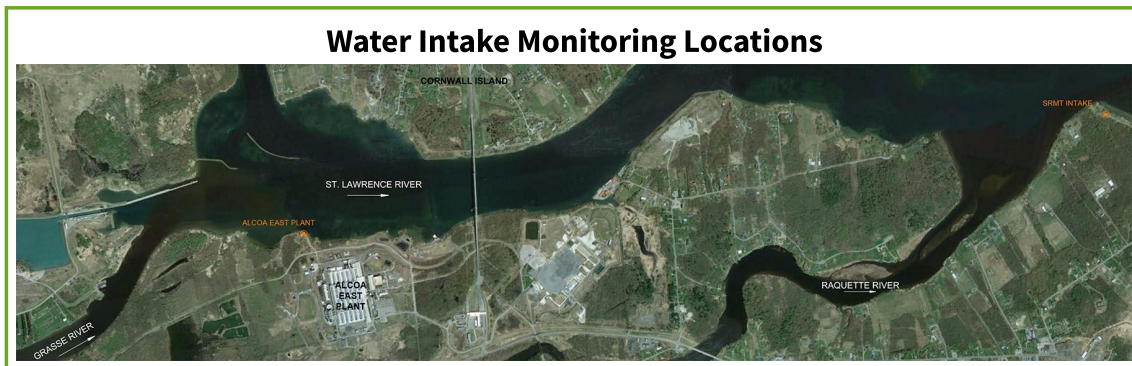
Date	Action Level Check	Monitoring Station ID (see figure)						Notes
		WC-UP1	WC-NF2	WC-NF	WC-NF3	WC-MOUTH	WC-SLR	
September 1	All Below	Below detectable levels	43	Below detectable levels	NA	NA	Below detectable levels	-
September 2	All Below	Below detectable levels	34	13	NA	NA	Below detectable levels	-
September 3	All Below	Below detectable levels	NA	27	NA	NA	5.7	-
September 4	All Below	6.1	NA	27	NA	NA	11	-

		Monitoring Station ID (see figure)						
Date	Action Level Check	WC-UP1	WC-NF2	WC-NF	WC- NF3	WC-MOUTH	WC-SLR	Notes
September 7	All Below	Below detectable levels	Below detectable levels	13	NA	17	6.2	- -
September 8	All Below	Below detectable levels	7.4	81	NA	11	Below detectable levels	- -
September 9	All Below	Below detectable levels	5.2	73	NA	24	7.2	- -
September 10	All Below	Below detectable levels	6.8	34	NA	33	7.5	- -
September 11	All Below	Below detectable levels	72	77	NA	27	Below detectable levels	- -
September 13	All Below	Below detectable levels	6.0	20	NA	22	Below detectable levels	- -
September 14	All Below	Below detectable levels	58	47	NA	18	Below detectable levels	- -
September 15	All Below	Below detectable levels	NA	24	NA	NA	8.4	- -
September 16	All Below	Below detectable levels	NA	37	NA	NA	6.3	- -
September 17	All Below	Below detectable levels	64	50	NA	NA	8.4	- -
September 18	All Below	Below detectable levels	NA	23	NA	28	10	- -
September 20	All Below	Below detectable levels	NA	20	NA	11	Below detectable levels	- -
September 21	All Below	Below detectable levels	NA	47	NA	6.8	Below detectable levels	- -
September 22	All Below	Below detectable levels	NA	31	NA	9.0	Below detectable levels	- -
September 23	All Below	Below detectable levels	NA	45	NA	10	5.5	- -

		Monitoring Station ID (see figure)						
Date	Action Level Check	WC-UP1	WC-NF2	WC-NF	WC-NF3	WC-MOUTH	WC-SLR	Notes
September 24	All Below	Below detectable levels	NA	48	NA	9.7	Below detectable levels	- -
September 25	All Below	Below detectable levels	11	43	NA	NA	Below detectable levels	- -
September 27	All Below	Below detectable levels	NA	10	NA	9.8	5.1	- -
September 28	All Below	Below detectable levels	NA	25	NA	8.7	5.0	- -
September 29	All Below	Below detectable levels	NA	42	NA	7.5	5.7	- -
September 30	All Below	Below detectable levels	NA	30	NA	Below detectable levels	Below detectable levels	- -

Total Suspended Solids (TSS; milligrams per liter)

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2021 Water Intake Turbidity Data (Corrective Action Level = 25 NTU above Baseline Level)

		Monitoring Station ID (see figure)			
Date	Action Level Check	IN-AE-RAW	IN-SRMT-RAW	IN-SRMT-FIL	Notes
September 1	All Below	2.8	1.4	0.0	--
September 2	All Below	1.8	1.8	0.1	--
September 3	All Below	1.5	1.5	0.0	--
September 4	All Below	1.8	1.4	0.0	--


Date	Action Level Check	Monitoring Station ID (see figure)			Notes
		IN-AE-RAW	IN-SRMT-RAW	IN-SRMT-FIL	
September 7	All Below	3.2	1.5	0.0	--
September 8	All Below	2.4	3.0	0.1	--
September 9	All Below	3.7	1.6	0.0	--
September 10	All Below	2.9	4.1	0.1	--
September 11	All Below	1.1	1.3	0.0	--
September 13	All Below	0.9	1.5	0.0	--
September 14	All Below	1.2	1.5	0.0	--
September 15	All Below	1.6	1.6	0.0	--
September 16	All Below	0.9	1.6	0.1	--
September 17	All Below	2.0	1.6	0.0	--
September 18	All Below	0.8	1.8	0.2	--
September 20	All Below	1.3	1.6	0.0	--
September 21	All Below	0.8	1.5	0.0	--
September 22	All Below	1.1	1.5	0.1	--
September 23	All Below	2.2	1.7	0.1	--
September 24	All Below	0.8	1.5	0.1	--
September 25	All Below	0.9	1.6	0.0	--
September 27	All Below	1.0	1.5	0.0	--
September 28	All Below	1.3	1.5	0.2	--
September 29	All Below	1.0	1.5	0.1	--
September 30	All Below	0.8	1.5	0.0	--

Turbidity (Nephelometric Turbidity Unit)

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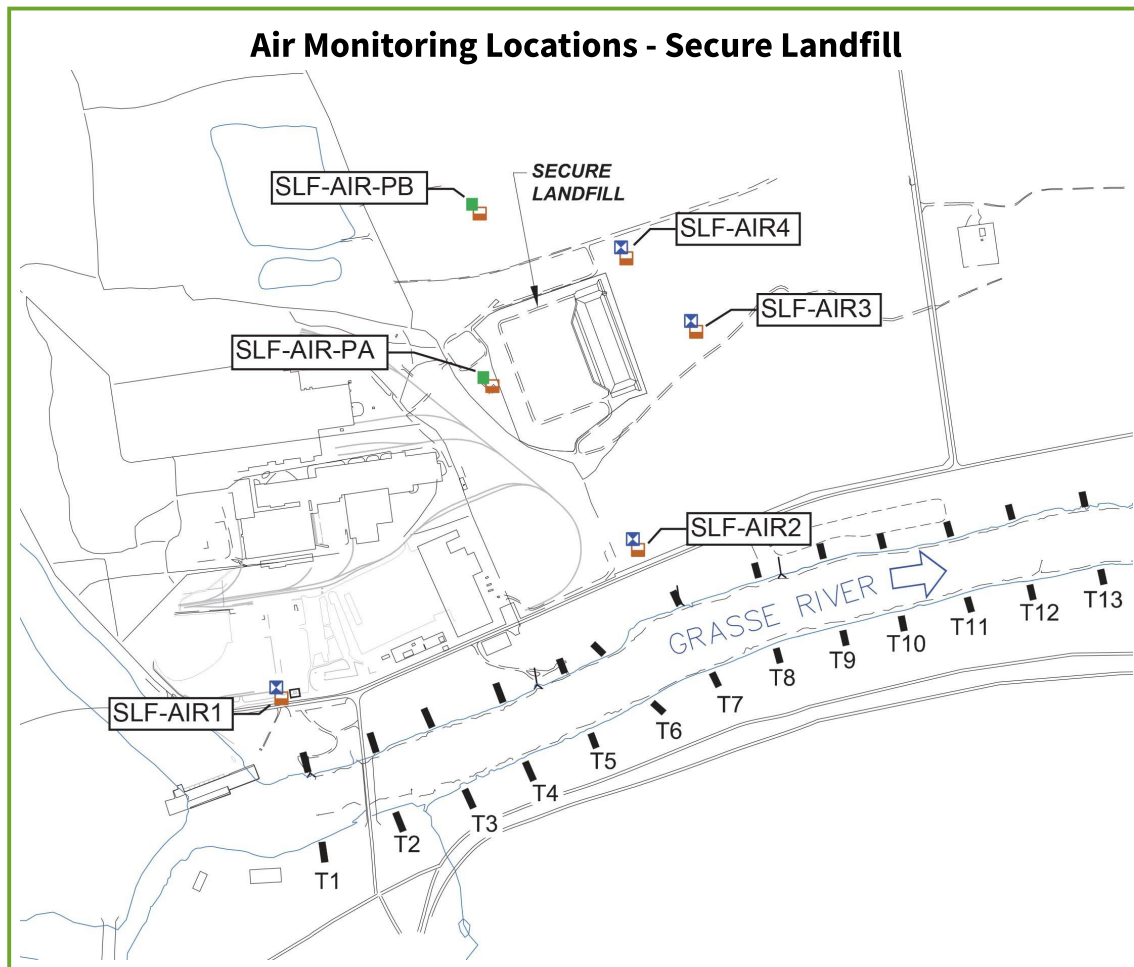
Environmental monitoring for the 2021 construction includes water and air. Air monitoring is being performed around the secure landfill, Route 131 Staging Area, Haverstock Road Staging Area, and Alcoa East Plant dock during construction at those locations. Water monitoring is being performed in the river and at water intakes. These monitoring activities and results for the **current month** are summarized below. **(Additional 2021 Lab Results: [Current Month \(monitoringConstruction2021.html\)](#) | [April \(monitoringConstruction2021 April.html\)](#) | [May \(monitoringConstruction2021 May.html\)](#) | [June \(monitoringConstruction2021 June.html\)](#) | [July \(monitoringConstruction2021 July.html\)](#) | [August \(monitoringConstruction2021 August.html\)](#) | [September \(monitoringConstruction2021 September.html\)](#)**)

- [Air Monitoring - 2021 Secure Landfill](#)
- [Air Monitoring - 2021 Route 131 Staging Area](#)
- [Air Monitoring - 2021 Dredge Mobile River Stations](#)
- [Air Monitoring - 2021 Haverstock Road Staging Area](#)
- [Air Monitoring - 2021 Alcoa East Plant Dock](#)
- [Water Monitoring - 2021 River Remediation](#)

Air Monitoring - 2021 Secure Landfill Construction and Operation

Program includes particulate monitoring using real-time meters for particulates (or dust) and volatile organic compounds (VOCs) and sampling for PCB analytical testing. Corrective action levels have been established based on levels that are safe for the community for particulates, VOCs, and PCBs. The actual monitoring results are compared to the corrective action levels to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Note that air monitoring for PCBs and VOCs was discontinued in June as material handling and disposal operations were completed. Air monitoring for dust was also discontinued in June as landfill construction and covering efforts were completed. Additional dust monitoring will be performed if final covering activities are performed this year.



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

Date	Action Level Check	Monitoring Station ID (see figure)						Notes
		SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	
October 5	All Below	0.0294	0.0404	0.0171	0.019	0.016	0.0179	--

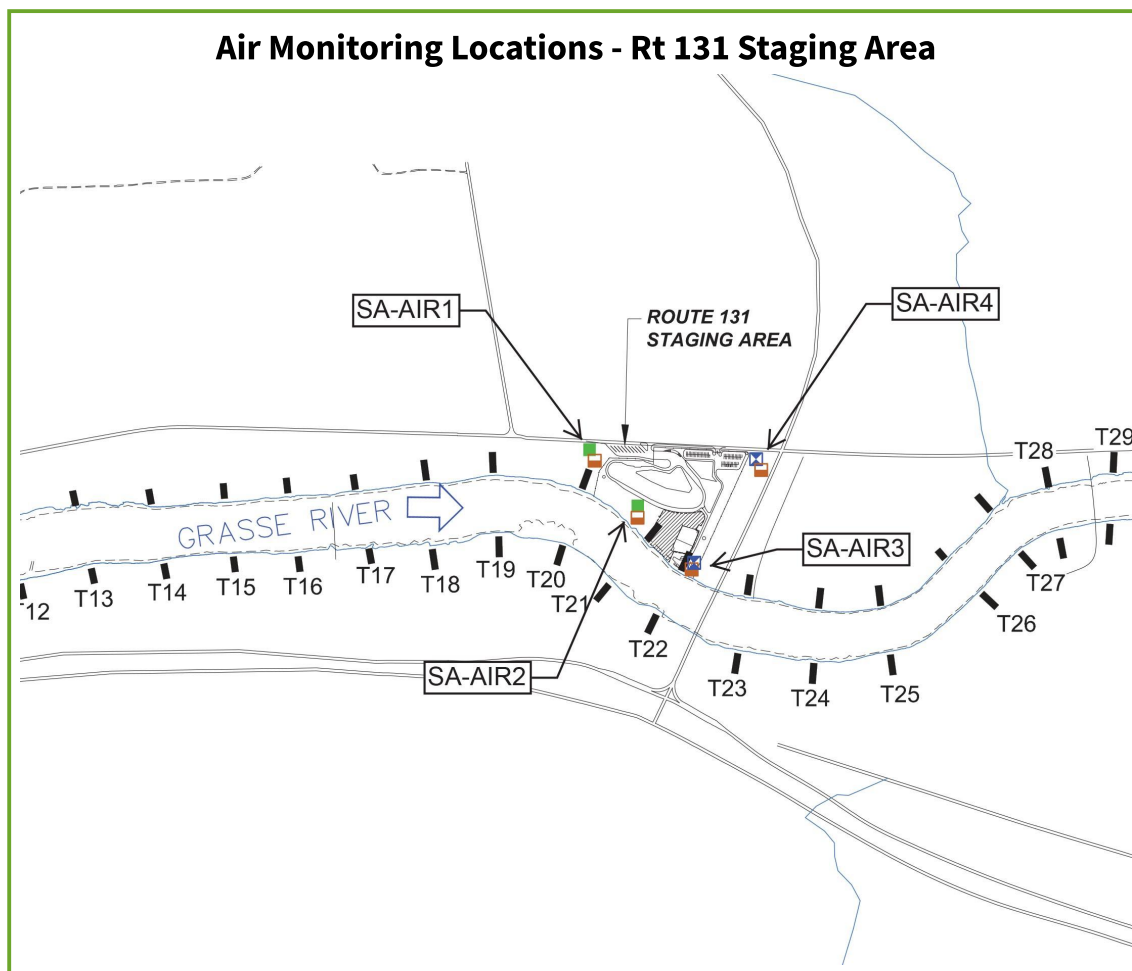
		Monitoring Station ID (see figure)						
Date	Action Level Check	SLF-AIR1	SLF-AIR2	SLF-AIR3	SLF-AIR4	SLF-AIR-PA	SLF-AIR-PB	Notes
	October 6	All Below	0.0307	0.0394	0.0124	0.0161	0.006	
October 7	All Below	0.0428	0.0518	0.0161	0.0215	0.017	0.0298	--
October 8	All Below	0.06	0.0565	0.0124	0.0372	0.033	0.0229	--
October 9	All Below	0.0668	0.0753	0.0267	0.0512	0.041	0.0576	--
October 12	All Below	0.0269	0.0403	0.013	0.0005	0.01	0.0123	--
October 13	All Below	0.0466	0.0582	0.0152	0.017	0.028	0.0228	--
October 14	All Below	0.0305	0.0395	0.0182	0.135	0.02	0.0345	SLF-AIR4 levels not related to field activities
October 15	All Below	0.0214	0.032	0.0265	0.022	0.007	0.0076	--
October 16	All Below	0.0626	0.0684	0.0311	0.024	0.0341	0.0531	--
October 19	All Below	0.0183	0.0407	0.0081	0.024	0.0045	0.0058	--
October 20	All Below	0.0248	0.0443	0.0208	0.0182	0.0288	0.0111	--
October 21	All Below	0.0368	0.0513	0.0451	0.0209	0.0185	0.0287	--
October 22	All Below	0.038	0.0512	0.0188	0.0339	0.0159	0.0267	--
October 23	All Below	0.0332	0.053	0.0082	0.0218	0.0083	0.0072	--
October 26	All Below	0.0261	0.0459	0.0108	0.0222	0.0081	0.0007	--
October 28	All Below	0.0252	0.047	0.0106	0.0177	0.0072	0.0073	--
October 29	All Below	0.0396	0.0594	0.0142	0.0217	0.014	0.0216	--
October 30	All Below	0.0546	0.0734	0.027	0.0565	0.0263	0.0413	--

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Air Monitoring - 2021 Route 131 Staging Area

Program includes particulate monitoring using real-time meters for particulates (or dust) and volatile organic compounds (VOCs) and sampling for PCB analytical testing during handling of potential PCB-containing material. Corrective action levels have been established based on levels that are safe for the community for particulates, VOCs, and PCBs. The actual monitoring results are compared to the corrective action levels to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Note that air monitoring for PCBs was discontinued in June as material handling was completed. Air monitoring also transitioned to particulate (dust) only once PCB material handling was completed.



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

Date	Action Level Check	Monitoring Station ID (see figure)				Notes
		SA-AIR1	SA-AIR2	SA-AIR3	SA-AIR4	
October 1	All Below	0.0047	0.0103	0.0108	0.0132	--
October 2	All Below	0.0047	0.012	0.0109	0.0104	--
October 3	All Below	0.0115	0.0147	0.0152	0.0154	--
October 5	All Below	0.0084	0.0171	0.0181	0.0225	--
October 6	All Below	0.0063	0.0112	0.0093	0.0112	--
October 7	All Below	0.014	0.0168	0.0197	0.0347	--
October 8	All Below	0.0079	0.0166	0.0167	0.0168	--
October 9	All Below	0.0258	0.0294	0.0357	0.0525	--

NA = Data not collected in accordance with plan

Particulates (milligrams per cubic meter)

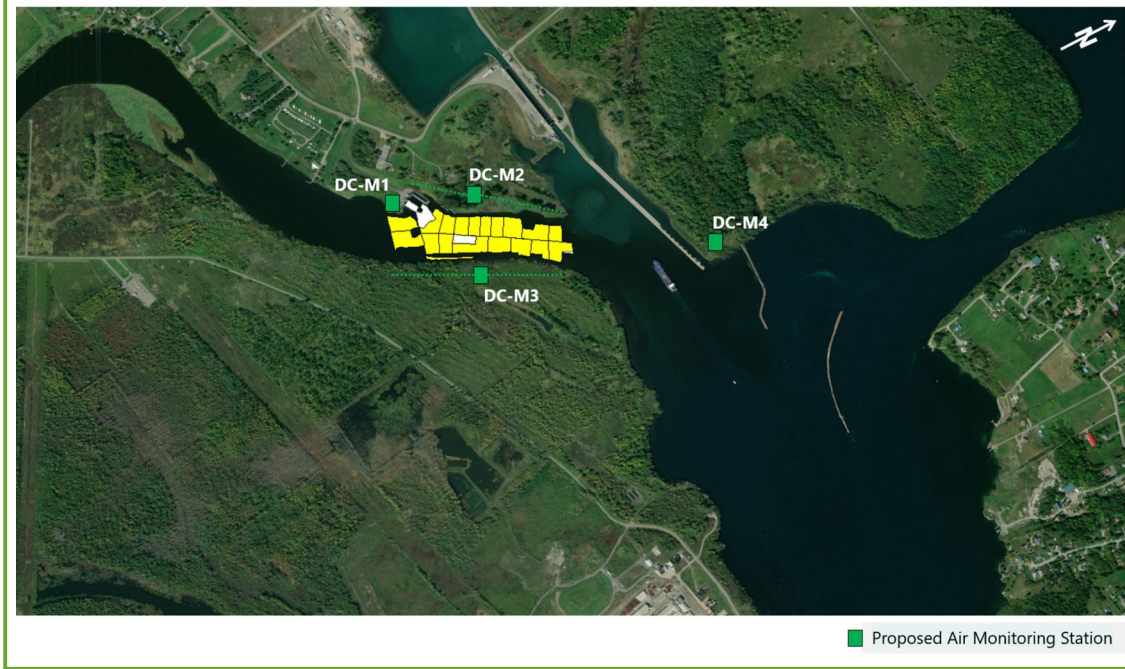
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Air Monitoring - 2021 Dredge Mobile River Stations

Program includes sampling for PCB analytical testing. The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Note that air monitoring for PCBs was performed in April through June concurrent with the river dredge operations. Dredging is complete.

Air Monitoring Locations - Dredge Corridor



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Air Monitoring - 2021 Haverstock Road Support Area

Program includes particulate monitoring using real-time meters for particulates (or dust). The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below.

Air Monitoring Locations - Haverstock Road Area



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

Date	Action Level Check	Monitoring Station ID (see figure)			Notes
		HAV-AIR1	HAV-AIR2	HAV-AIR3	
October 1	All Below	0.0154	0.007	0.024	--
October 2	All Below	0.0159	0.017	0.02	--
October 3	All Below	0.0209	0.017	0.0232	--
October 5	All Below	0.0189	0.0167	0.0287	--
October 6	All Below	0.0174	0.0094	0.0273	--
October 7	All Below	0.0225	0.0197	0.0309	--
October 8	All Below	0.0186	0.013	0.0293	--
October 9	All Below	0.0225	0.0344	0.0583	--
October 12	All Below	0.0174	0.0136	0.0331	--
October 13	All Below	0.0203	0.0155	0.0365	--
October 14	All Below	0.0232	0.0203	0.0351	--
October 15	All Below	0.0182	0.0154	0.028	--
October 16	All Below	0.0312	0.0332	0.0475	--
October 19	All Below	0.0142	0.009	0.0243	--
October 20	All Below	0.0141	0.0061	0.0277	--
October 21	All Below	0.0222	0.0194	0.0362	--
October 22	All Below	0.0209	0.0281	0.0421	--
October 23	All Below	0.0113	0.0034	0.0315	--

Date	Action Level Check	Monitoring Station ID (see figure)			Notes
		HAV-AIR1	HAV-AIR2	HAV-AIR3	
October 26	All Below	0.0145	0.0104	0.031	--
October 28	All Below	0.0147	0.0126	0.0338	--
October 29	All Below	0.0166	0.0171	0.0406	--
October 30	All Below	0.0318	0.0392	0.0529	--

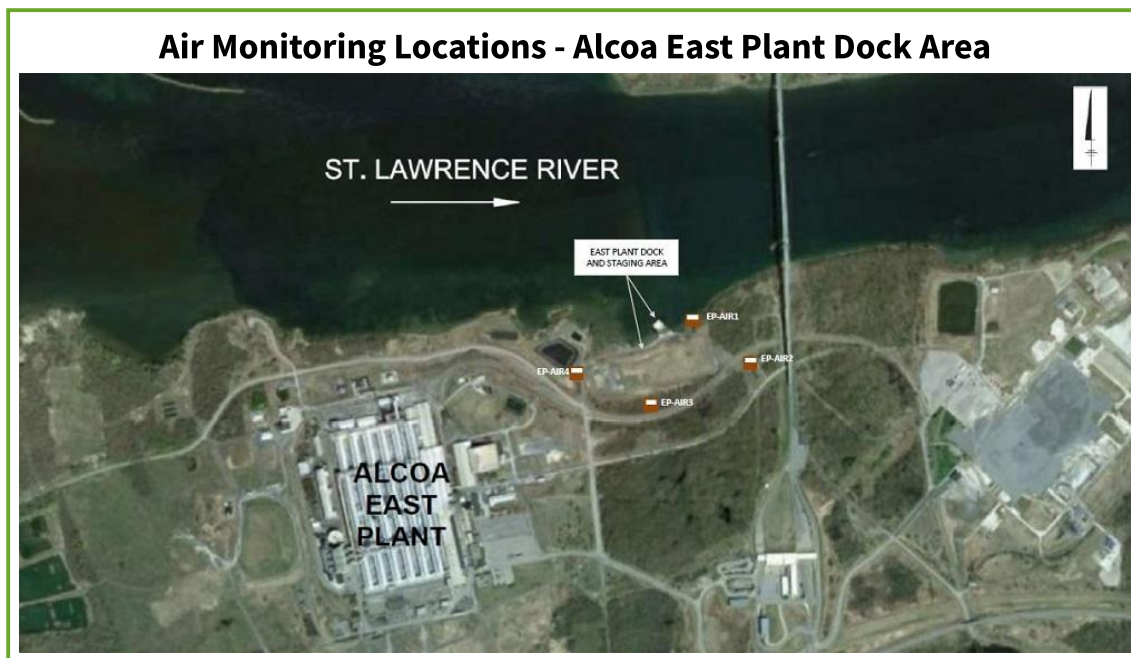
NA = Data not collected in accordance with plan

Particulates (milligrams per cubic meter)

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Air Monitoring - 2021 Alcoa East Plant Dock Area

Program includes particulate monitoring using real-time meters for particulates (or dust). The corrective action level has been established based on a level that is safe for the community. The actual monitoring results are compared to the corrective action level to determine if adjustments in construction are needed. The air monitoring locations and tabulated results are provided below. Monitoring is only performed when there is active work at this area.



2021 Air Particulate Data (Corrective Action Level = 0.150 milligram per cubic meter above upwind location)

Date	Action Level Check	Monitoring Station ID (see figure)				Notes
		EP-AIR1	EP-AIR2	EP-AIR3	EP-AIR4	
October 1	All Below	0.0331	0.018	0.0177	0.0189	--
October 3	All Below	0.0322	0.0202	0.0178	0.0202	--

NA = Data not collected in accordance with plan

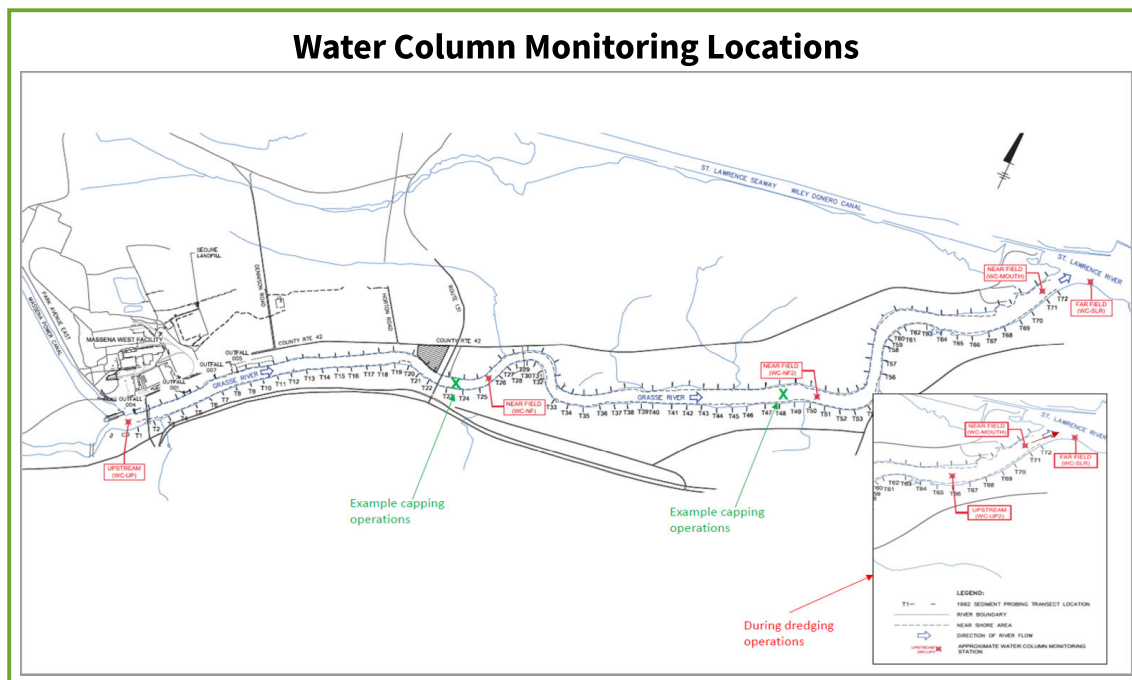
Particulates (milligrams per cubic meter)

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Water Monitoring - 2021 River Remediation

Program includes turbidity monitoring using real-time meters for solids and PCB analytical testing at the water intake locations and total suspended solids (TSS) and PCB analytical testing at the river locations. Corrective action levels have been established based on levels that are safe for the community for both solids and PCBs. The actual monitoring results will be compared to the corrective action levels to determine if adjustments in construction are needed. The water locations and tabulated results are provided below.

Monitoring was performed for 50+ days with half of these days including capping only and the other half with capping and dredging. PCBs were not detected in any samples during routine monitoring. Water monitoring for PCBs was discontinued in June based on these results. Monitoring for solids will continue through the end of construction.



2021 Water Column Total Suspended Solids Data (Corrective Action Level = 100 mg/L above WC-UP Level at WC-SLR)

Date	Action Level Check	Monitoring Station ID (see figure)						Notes
		WC-UP1	WC-NF2	WC-NF	WC-NF3	WC-MOUTH	WC-SLR	
October 1	All Below	Below detectable levels	NA	6.8	NA	7.5	6.2	- -

Total Suspended Solids (TSS; milligrams per liter)

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2021 Water Intake Turbidity Data (Corrective Action Level = 25 NTU above Baseline Level)

Date	Action Level Check	Monitoring Station ID (see figure)			Notes
		IN-AE-RAW	IN-SRMT-RAW	IN-SRMT-FIL	
October 1	All Below	0.9	1.6	0.1	--

Turbidity (Nephelometric Turbidity Unit)

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