INVENTUM ENGINEERING, PC

Coal Yard Tunnel and
Coal Yard Tunnel Conveyor Control and Junction Building
Construction Completion Report



Riverview Innovation & Technology Campus

Brownfield Cleanup Program Site No. C915353

3875 River Road

Tonawanda, New York 14150

November 18, 2025

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Introduction

Inventum Engineering, P.C. (Inventum), on behalf of Riverview Innovation & Technology Campus, Inc. (Riverview), is submitting this construction completion report (CCR) to document the closure of the former Coal Yard Tunnel. This CCR includes the documentation of work completed in accordance with the Coal Yard Tunnel ACM Removal and Closure IRM Work Plan (Inventum, June 2022) and the memorandum Revised Non-Aqueous Phase Liquid Response, East End of Coal Yard Tunnel Conveyor Control and Junction Building (Inventum, January 2023). The scope of work was implemented in accordance with approved work plans and under oversight of the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) for the Riverview Site (#C915353) (BCP Site) located at 3875 River Road, Tonawanda, New York. The asbestos abatement work scope associated with the closure of the Coal Yard Tunnel was documented for completion and was not performed under a NYSDEC approved work plan. Asbestos abatement was performed in accordance with New York State Department of Labor (NYSDOL) regulations.

Background

The Coal Yard Tunnel crossed below the North and South Coal Yards and the Coke Yard. The tunnel formerly contained a conveyor and utilities to allow coal to be conveyed from the coal yard to the coal breaker building hoppers. The four tunnel access locations are shown on the aerial image below and Figure 1. The tunnel roof was in fair to poor condition with the reinforcing steel in some areas of the concrete roof completely exposed (Photograph No. 1, page No. 4).



Absent the concrete cover, the integrity of the reinforcing steel (the primary tension member of the roof slab), could not be confirmed. The tunnel was not safe for occupancy, future use, or abatement and was condemned.



Photograph No. 1
Exposed Reinforcing Steel in Roof Slab



Photograph No. 2
Tar Wrapped Piping on Southwest Wall of Coal Yard Tunnel

The coal yard tunnel was inspected in November 2021. Based on observations of the tunnel section that was safely accessible, no evidence of tar (coke plant related tar, there was tar paper) or ACM was present on the interior ceiling of the tunnel. Tar paper wrapping was present on the insulated pipe in the tunnel and was sampled and tested. The bulk material samples collected from the pipe tar paper wrapping contained asbestos. The pipe wrapping was in poor condition and fragments of the asbestos containing material (ACM) wrapping were present on the conveyor and floor slab (Photograph No. 2, page No. 5). The presence of the loose ACM throughout the tunnel required that all materials within the tunnel be removed and managed as suspect ACM. The Coal Yard Tunnel Work Plan was implemented in August 2022, and the tunnel was abated and closed by December 2022.

After closure of the tunnel, during the excavation to access and demolish the Coal Yard Tunnel Conveyor Control and Junction Building ("Junction Building") foundation near the north end of the Coal Yard Tunnel, a layer of granular material containing non-aqueous phase liquid (NAPL) was encountered in January 2023. Four exploratory test trenches were advanced in the area to determine if there was a source such as a leaking buried tank or pipeline and to estimate the limits of the NAPL. No buried tank or pipeline were found, and the limits of the NAPL-impacted materials were defined and removed. A full description of the NAPL encountered, a photographic log, the exploratory test pitting, and the proposed NAPL excavation was submitted in the January 18, 2023, memorandum Revised Non-aqueous Phase Liquid Response, East End of Coal Yard Tunnel Conveyor Control and Junction Building (Appendix A).

Coal Yard Tunnel Closure

The work completed to close the Coal Yard Tunnel is outlined below. A photographic log documenting the completed work is provided in Appendix B.

1. Job Safety Analysis – OSC prepared a JSA for the tunnel opening and closure addressing excavation safety, concrete cutting and removal over a below grade cavity, entry and egress from the tunnel opening, and placement of fill.
2. Tunnel dewatering – The coal yard tunnel was dewatered from the south access shaft in accordance with Permit No. 331 and the approved POTW Discharge Authorization Request:
    a. Treatment System – As approved by the Town of Tonawanda for ACM and water quality, in series; settling in the mixing pad, 25-micron bag filter, granulated activated carbon (GAC) and 5-micron filter ACM fiber removal.
    b. Discharged through high density polyethylene (HDPE) tubing to the POTW outfall.
    c. POTW outfall was/is metered and sampled in accordance with Permit No. 331.
3. Implemented the Community Air Monitoring Plan (CAMP) as it applies to earthmoving activities.
4. Removed the Junction Building and equipment in the north access (Photographs No. 3 and 4, page No.'s 6 and 7). Note the electrical equipment in the tunnel had been deenergized.



Photograph No. 3
North Access and Junction Building



Photograph No. 4
Electrical Equipment – North Access and Junction Building

5. Removed and stockpiled the overburden along the length of the tunnel. The overburden was approximately 6-feet deep, on average, over the tunnel.
6. The overburden was removed a minimum of 2 feet outside each sidewall and the slope of the overburden was no steeper than one horizontal to one vertical.
7. Inspected the overburden as it was excavated and exposed along the length of each side for visual or olfactory evidence of potential impacts, of which none were observed.
8. Cut the roof concrete into sections and removed. The concrete was transported to the concrete management area of the BCP Site for crushing.
9. Removed the suspect ACM wrapping from the pipe.

10. Removed the conveyor belting and support structure. The belting was shredded and recycled by Geiter Done of WNY, Inc. and the steel was washed and recycled with Niagara Metals. Wash water was treated and discharged in accordance with Permit No. 331.
11. Removed sediment and solid residuals from the base of the tunnel and staged in the mixing pad. Approximately 725 tons were shipped and disposed as an ACM waste at Modern Landfill. Manifests are provided in Appendix C.
12. Washed the concrete tunnel walls and flooring to remove any potential ACM residue. Wash water was treated and discharged in accordance with Permit No. 331.
13. Inspected the tunnel for indications of residual impacts, tar or staining (other than coal) on the concrete, no tar was noted, staining was primarily rust or coal dust.
14. Recorded GPS shots of the elevation and location of the remaining base slab and the top of the sidewalls at 20-foot (nominal) spacing. No sidewall was left above elevation 602-feet above mean sea level which was 3-feet below the then proposed finished grade for the recommended soil cover. This elevation was selected before the revised grading plan, which proposes a significantly higher finished grade over the former tunnel location.
15. Repeated steps 8 to 14 until the length of the tunnel was abated and cleaned.
16. Backfilled the tunnel with brick from the former Battery that met the Commercial Soil Cleanup Objective (SCO) criteria, and the overburden removed from over the tunnel. Brick was placed in the base to the top of the tunnel before placement of overburden. The overburden was placed in lifts of no more than 12-inches loose and was compacted by no less than two passes of a smooth wheel roller.
17. Advanced test pits where there were internal to external penetrations through the walls, there were limited locations and the test pits indicated there was no surrounding granular fill that could create a migration pathway.
18. The final grade under this work plan was finished to match the preexisting grade and prevent ponding. The fill material to bring the grade to the pre-existing surface included brick from the former Battery and the crushed concrete tunnel roof that met commercial SCOs in the tunnel cavity followed by the replacement of the overburden fill that was removed to access the tunnel.



Junction Building NAPL Response

1. A temporary berm of silty clay from the benching excavation was used to prevent migration of a sheen, potential NAPL, from the benched excavation. No material was imported from another part of the BCP Site for use as fill for the Junction Building excavation.
2. All of the sheen/potential NAPL was contained with absorbent materials or on the granular fill. There was no remaining primary source of the material, i.e. no pipe, underground tank, or other industrial source.
3. The water phase was treated through the temporary treatment system at the mixing pad through filters and GAC and discharged to the Town of Tonawanda POTW sewer in accordance with Permit No. 331.
4. The near surface fill was removed and stockpiled. The near surface materials were consistent with the majority of the site, and no materials with evidence of NAPL or tar-like residuals were identified in the removed near surface fill that was stockpiled;
5. The layer of impacted rail bed material was removed until no evidence of NAPL was observed. Approximatley 40 cubic yards of impacted rail bed materials were stockpiled on polyethylene sheeting in the grossly contaminated materials staging area in the former Thaw Shed;
6. The perimeter limits of the excavation were backfilled with clay from the foundation excavation (no clay was imported to the area) up to the elevation of the top of the granular fill (presumed rail bedding materials) that had conveyed the NAPL, around the perimeter of the eastern excavation. The clay was inspected, with no visual signs of impact, and screened with a PiD, of which all readings were 0.
7. The overburden was replaced with the fill excavated from the near surface by March 2023.
8. The segregated NAPL-impacted material was solidified with portland cement and coke breeze in accordance with the approved Satellite Source Area Solidification Remedial Action Work Plan (RAWP) (Inventum, February 2025). The draft RAWP recomends placement of the solidified materials in a consolidation cell under an approved cover. The BCP Site RAWP has not been approved.

Sampling

Analytical samples of the backfill material for the Coal Yard Tunnel included samples collected from the former concrete stack, from four types of visually distinct brick from the former Battery, and from the tunnel roof concrete. The samples were analyzed for Volatile Organic Compounds (VOCs) [8260], Semi-Volatile Organic Compounds (SVOCs) [8270] and TCLP VOCs and SVOCs. All sample results were below Commercial SCOs. Analytical data tables and laboratory reports were provided in the approved September 28, 2022, NYSDEC Import Request Coal Yard Tunnel Backfill Import Request (Appendix D).

In accordance with the managment actions in the approved memorandum Revised Non-aqueous Phase Liquid Response, a sample of the sorbent media used to contain the NAPL was collected and analyzed for TCL VOCs, TCL SVOCs, Target Analyte List (TAL) Metals including mercury, cyanide, polychlorinated biphenyls (PCBs), and Hazardous Characteristics (TCLP, Ignitability, Corrosivity and Reactivity). The analytical results indicated the sample was not characteristically hazardous, as all TCLP concentrations were not detected. The sample was not corrosive, reactive, or flammable. The analytical results are provided in Table 1 and laboraotry report in Appendix H.



Inspections

Frequent inspections were conducted during the implementation of the Coal Yard Tunnel Closure Work Plan. A Project Monitor with 56 Services monitored the removal and management of the suspect ACM. Daily ACM monitoring and final inspections were documented in an independent monitoring report. A final visual clearance of the tunnel was completed by 56 Services to document the tunnel was free of ACM prior to backfilling. Asbestos abatement final visual clearance is provided in Appendix E.

Inspection reports documenting the Coal Yard Tunnel closure are provided in Appendix F. Inspections included observation of overburden and groundwater conditions for potential contamination, documentation of the condition of the tunnel walls and floor, and records of work completed that day, including any notable findings such as piping contents or other materials encountered.

Overburden Characterization

Inventum monitored the overburden as it was removed, to document the materials in accordance with the protocols set forth in the Remedial Investigation Work Plan (RIWP) for the test pitting activities. The observations included the thickness and character of the overburden fill, identification of any grossly contaminated materials for segregation and staging in the Thaw Shed, and the presence of the shallow groundwater system.

The Coal Yard Tunnel overburden was between 0- to 10- feet thick progressing from north to south, with an average thickness of approximately 6 feet. The overburden was typical of the fill located in the Coal and Coke Yards, consisting of coal and coke breeze. The fill is characterized by a loose to medium dense black silty sand with gravel. Grossly contaminated material (GCM) was not observed in the overburden.

Shallow groundwater was observed at the fill-clay interface approximately 10-feet below ground surface (BGS).

Tunnel Documentation

Inspections of the Coal Yard Tunnel closure were performed daily. The inspection reports are organized by week and are provided in Appendix F. The tunnel walls and floor were intact with few cracks or spalling concrete. No major cracks were noted. Groundwater inflow was present at the concrete joints where the steel support members of the conveyor were installed and at the joints around the four tunnel access points.

North End Potential NAPL In Groundwater

On August 4, 2022, a sheen, a few millimeters thick, of low-viscosity green potential NAPL was observed in the perched groundwater above the tunnel roof between 80- and 100- feet from the North Access (in-text Photograph No. 5, page No. 11). The location of the observed potential NAPL is shown in Figure 1. An absorbent boom was added to the mixing pad water treatment system, placed around the pump in the southeast corner of the mixing pad. The sheen/potential NAPL was removed and contained on the absorbent boom. The estimated volume of NAPL was 200 mL or less. No sample was collected, as there was insufficient volume of the potential NAPL. The groundwater was closely monitored for NAPL throughout the Coal Yard Tunnel (CYT) closure. No NAPL was observed in fill or groundwater near the junction building, near the north end of the tunnel, or anywhere else along the length of the tunnel.





Photograph No. 5:
Green Sheen/Potential NAPL is observed in the perched groundwater over the tunnel roof.

Piping Contents

On September 9, 2022, an approximately 60-foot section of 4-inch diameter ACM-wrapped piping was discovered to contain tar-like residuals. The residuals were a black, slightly malleable solid. The pipe penetrated the western tunnel sidewall at approximately 450 feet from the north end, near the middle of the tunnel (Figure 1). The ACM-wrapping was removed from the pipe, and the pipe was brought to the grossly contaminated steel staging area in the former Tar Management Area secondary containment. The piping was estimated to contain up to 5 cubic feet of residuals. The piping was disposed by microencapsulation at

Michigan Waste Treatment in Belleville, Michigan. The pipe penetrations were located by GPS, cut, and capped. The manifest is included in Appendix C.

Test Pitting for Piping

On April 19, 2023, exploratory test pitting was conducted on the exterior of the western wall of the tunnel. The test trench began on the outer western wall of the CYT heading southwest to investigate the pipes discovered during the CYT demolition (Figure 1). One 4-inch diameter pipe was observed at the wall and was approximately 12-inches long and cut on both ends. The pipe was estimated to be one-eighth full of tar-like residuals. The pipe did not continue west. A second pipe was observed to be 6-inches in diameter, approximately 8-feet long, and contained unimpacted fill material. The 6-inch pipe did not continue west. A second test pit was conducted northwest to southeast, teeing off the first test pit, to investigate for additional piping, of which none was found. There was heavy groundwater infiltration at 72- to- 84- inches deep. Test pitting excavation was stopped due to side wall instability. The 4-inch diameter pipe was added to the grossly contaminated steel pile in the Tar Management Area, and the 6-inch diameter pipe was recycled with Niagara Metals. The test pit log is provided in Appendix G. The test pit is shown in Photograph numbers 19 and 20.

Engineering Certification

I, John P. Black, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Construction Completion Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and DER Green Remediation (DER-31) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

Respectfully Submitted,

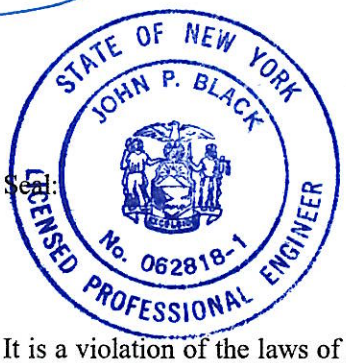
Inventum Engineering, P.C.

John P. Black, P.E.

Date: 11.18.2025

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Figure



D

50 0 25 50 100 200

1 INCH = 50 FEET (22X34)

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COAL YARD TUNNEL CLOSURE CCR

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FIGURE 1

DRAWING NUMBER

CYT CCR

Table – Coal Yard Tunnel Junction Building NAPL

Table 1
Coal Yard Tunnel Junction Building NAPL CCR
Riverview Innovation & Technology Campus, Inc.,
Tonawanda, New York

Analytes		SAMPLE ID:	CYTJ-NAPL-01202023	
		SAMPLE DATE:	1/20/2023	
		LAB REPORT:	230266	
	TCLP STANDARDS	UNITS	NAPL soaked absorbent media near Coal Yard Tunnel Junction Building	
SW8260C				
1,1,1-Trichloroethane (TCA)		ug/kg	<575	U
1,1,2,2-Tetrachloroethane		ug/kg	<575	U
1,1,2-Trichloroethane		ug/kg	<575	U
1,1-Dichloroethane		ug/kg	<575	U
1,1-Dichloroethene		ug/kg	<575	U
1,2,3-Trichlorobenzene		ug/kg	<1440	U
1,2,4-Trichlorobenzene		ug/kg	<1440	U
1,2,4-Trimethylbenzene		ug/kg	**3710**	
1,2-Dibromo-3-Chloropropane		ug/kg	<2870	U
1,2-Dibromoethane (Ethylene Dibromide)		ug/kg	<575	U
1,2-Dichlorobenzene		ug/kg	<575	U
1,2-Dichloroethane		ug/kg	<575	U
1,2-Dichloropropane		ug/kg	<575	U
1,3-Dichlorobenzene		ug/kg	<575	U
1,3,5-Trimethylbenzene		ug/kg	**1640**	
1,4-Dichlorobenzene		ug/kg	<575	U
1,4-Dioxane (P-Dioxane)		ug/kg	<2870	U
Methyl Ethyl Ketone (2-Butanone)		ug/kg	<2870	U
2-Hexanone		ug/kg	<1440	U
4-Isopropylbenzene		ug/kg	<575	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		ug/kg	<1440	U
Acetone		ug/kg	<2870	U
Benzene		ug/kg	<575	U
Bromochloromethane		ug/kg	<1440	U
Bromodichloromethane		ug/kg	<575	U
Bromoform		ug/kg	<1440	U
Bromomethane		ug/kg	<575	U
Carbon Disulfide		ug/kg	<575	U
Carbon Tetrachloride		ug/kg	<575	U
Chlorobenzene		ug/kg	<575	U
Chloroethane		ug/kg	<575	U
Chloroform		ug/kg	<575	U
Chloromethane		ug/kg	<575	U
Cyclohexane		ug/kg	<2870	U
Dibromochloromethane		ug/kg	<575	U
Dichlorodifluoromethane		ug/kg	<575	U
Methylene Chloride (Dichloromethane)		ug/kg	<1440	U

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Analytes	SAMPLE ID:		CYTJ-NAPL-01202023	
	SAMPLE DATE:		1/20/2023	
	LAB REPORT:		230266	
	TCLP STANDARDS	UNITS	NAPL soaked absorbent media near Coal Yard Tunnel Junction Building	
Ethylbenzene		ug/kg	**830**	
Isopropylbenzene (Cumene)		ug/kg	<575	U
Methyl Acetate		ug/kg	**2730**	
Tert-Butyl Methyl Ether		ug/kg	<575	U
Methylcyclohexane		ug/kg	<575	U
Naphthalene		ug/kg	**304000**	E
n-Butylbenzene		ug/kg	**715**	
N-Propylbenzene		ug/kg	<575	U
sec-Butylbenzene		ug/kg	<575	U
Styrene		ug/kg	<1440	U
Tetrachloroethylene (PCE)		ug/kg	<575	U
tert-Butylbenzene		ug/kg	<575	U
Toluene		ug/kg	<575	U
Trichloroethylene (TCE)		ug/kg	<575	U
Trichlorofluoromethane		ug/kg	<575	U
Vinyl Chloride		ug/kg	<575	U
Cis-1,2-Dichloroethylene		ug/kg	<575	U
Cis-1,3-Dichloropropene		ug/kg	<575	U
m,p-Xylene		ug/kg	**1400**	
O-Xylene (1,2-Dimethylbenzene)		ug/kg	**1460**	
Trans-1,2-Dichloroethene		ug/kg	<575	U
Trans-1,3-Dichloropropene		ug/kg	<575	U
Xylenes, Total		ug/kg	**2860**	
SW8270D				
1,1-Biphenyl		ug/kg	<27200	U
1,2,4,5-Tetrachlorobenzene		ug/kg	<27200	U
2,3,4,6-Tetrachlorophenol		ug/kg	<27200	U
2,4,5-Trichlorophenol		ug/kg	<27200	U
2,4-Dichlorophenol		ug/kg	<27200	U
2,4-Dimethylphenol		ug/kg	<27200	U
2,4-Dinitrophenol		ug/kg	<109000	U
2,4-Dinitrotoluene		ug/kg	<27200	U
2,6-Dinitrotoluene		ug/kg	<27200	U
2-Chloronaphthalene		ug/kg	<27200	U
2-Chlorophenol		ug/kg	<27200	U
2-Methylnaphthalene		ug/kg	<27200	U
2-Methylphenol (O-Cresol)		ug/kg	<27200	U

Analytes	SAMPLE ID:		CYTJ-NAPL-01202023	
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	TCLP STANDARDS	UNITS	NAPL soaked absorbent media near Coal Yard Tunnel Junction Building	
2-Nitroaniline		ug/kg	<27200	U
2-Nitrophenol		ug/kg	<27200	U
3,3'-Dichlorobenzidine		ug/kg	<27200	U
Cresols, M & P (3&4-Methylphenol)		ug/kg	<27200	U
3-Nitroaniline		ug/kg	<27200	U
4,6-Dinitro-2-Methylphenol		ug/kg	<36400	U
4-Bromophenyl Phenyl Ether		ug/kg	<27200	U
4-Chloro-3-Methylphenol		ug/kg	<27200	U
4-Chloroaniline		ug/kg	<27200	U
4-Chlorophenyl Phenyl Ether		ug/kg	<27200	U
4-Nitroaniline		ug/kg	<27200	U
4-Nitrophenol		ug/kg	<27200	U
Acenaphthene		ug/kg	**34400**	
Acenaphthylene		ug/kg	<27200	U
Acetophenone		ug/kg	<27200	U
Anthracene		ug/kg	**29200**	
Atrazine		ug/kg	<27200	U
Benzo(A)Anthracene		ug/kg	**53700**	
Benzaldehyde		ug/kg	<27200	U
Benzo(A)Pyrene		ug/kg	**36900**	
Benzo(B)Fluoranthene		ug/kg	**35800**	
Benzo(G,H,I)Perylene		ug/kg	<27200	U
Benzo(K)Fluoranthene		ug/kg	<27200	U
Bis(2-Chloroethoxy) Methane		ug/kg	<27200	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)		ug/kg	<27200	U
Bis(2-Ethylhexyl) Phthalate		ug/kg	<27200	U
Benzyl Butyl Phthalate		ug/kg	<27200	U
Caprolactam		ug/kg	<27200	U
Carbazole		ug/kg	<27200	U
Chrysene		ug/kg	**39200**	
Di-N-Butyl Phthalate		ug/kg	<27200	U
Di-N-Octylphthalate		ug/kg	<27200	U
Dibenz(A,H)Anthracene		ug/kg	<27200	U
Dibenzofuran		ug/kg	**49000**	
Diethyl Phthalate		ug/kg	<27200	U
Dimethyl Phthalate		ug/kg	<27200	U
Fluoranthene		ug/kg	**202000**	
Fluorene		ug/kg	**94700**	

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Analytes	SAMPLE ID:		CYTJ-NAPL-01202023	
	SAMPLE DATE:		1/20/2023	
	LAB REPORT:		230266	
	TCLP STANDARDS	UNITS	NAPL soaked absorbent media near Coal Yard Tunnel Junction Building	
Hexachlorobenzene		ug/kg	<27200	U
Hexachlorobutadiene		ug/kg	<27200	U
Hexachlorocyclopentadiene		ug/kg	<109000	U
Hexachloroethane		ug/kg	<27200	U
Indeno(1,2,3-C,D)Pyrene		ug/kg	<27200	U
Isophorone		ug/kg	<27200	U
N-Nitrosodi-N-Propylamine		ug/kg	<27200	U
N-Nitrosodiphenylamine		ug/kg	<27200	U
Naphthalene		ug/kg	<27200	U
Nitrobenzene		ug/kg	<27200	U
Pentachlorophenol		ug/kg	<54300	U
Phenanthrene		ug/kg	**222000**	
Phenol		ug/kg	<27200	U
Pyrene		ug/kg	**138000**	
Pyridine		ug/kg	<27200	U
SW6010				
Aluminum		mg/kg	**965**	
Antimony		mg/kg	<2.91	U
Arsenic		mg/kg	**1.71**	
Barium		mg/kg	**18.0**	
Beryllium		mg/kg	<0.243	U
Cadmium		mg/kg	**0.248**	
Calcium		mg/kg	**2780**	
Chromium, Total		mg/kg	**2.99**	
Cobalt		mg/kg	<2.43	U
Copper		mg/kg	**8.31**	
Iron		mg/kg	**5020**	
Lead		mg/kg	**9.41**	
Magnesium		mg/kg	**739**	
Manganese		mg/kg	**59.3**	
Nickel		mg/kg	**3.07**	
Potassium		mg/kg	**237**	
Selenium		mg/kg	<0.971	U
Silver		mg/kg	<0.485	U
Sodium		mg/kg	<121	U
Thallium		mg/kg	<1.21	U
Vanadium		mg/kg	**2.68**	

Analytes	SAMPLE ID:		CYTJ-NAPL-01202023	
	SAMPLE DATE:		1/20/2023	
	LAB REPORT:		230266	
	TCLP STANDARDS	UNITS	NAPL soaked absorbent media near Coal Yard Tunnel Junction Building	
Zinc		mg/kg	**18.2**	
SW7471				
Mercury		mg/kg	**0.0555**	
8082A				
PCB-1016 (Aroclor 1016)		ug/kg	<0.681	U
PCB-1221 (Aroclor 1221)		ug/kg	<0.681	U
PCB-1232 (Aroclor 1232)		ug/kg	<0.681	U
PCB-1242 (Aroclor 1242)		ug/kg	<0.681	U
PCB-1248 (Aroclor 1248)		ug/kg	<0.681	U
PCB-1254 (Aroclor 1254)		ug/kg	<0.681	U
PCB-1260 (Aroclor 1260)		ug/kg	<0.681	U
SW9012B				
Cyanide		mg/kg	**1.83**	
SW9045D				
pH		ph units	**7.90**	
TCLP - SW8260C				
1,2-Dichloroethane	500	ug/l	<200	U
Chlorobenzene	100000	ug/l	<200	U
Tetrachloroethylene (PCE)	700	ug/l	<200	U
Carbon Tetrachloride	500	ug/l	<200	U
Chloroform	6000	ug/l	<200	U
Benzene	500	ug/l	<200	U
Vinyl Chloride	200	ug/l	<200	U
1,1-Dichloroethene	700	ug/l	<200	U
Methyl Ethyl Ketone (2-Butanone)	200000	ug/l	<1000	U
Trichloroethylene (TCE)	500	ug/l	<200	U

Table 1
Coal Yard Tunnel Junction Building NAPL CCR
Riverview Innovation & Technology Campus, Inc.,
Tonawanda, New York

Analytes		SAMPLE ID:	CYTJ-NAPL-01202023	
		SAMPLE DATE:	1/20/2023	
		LAB REPORT:	230266	
	TCLP STANDARDS	UNITS	NAPL soaked absorbent media near Coal Yard Tunnel Junction Building	
TCLP - SW8270D				
1,4-Dichlorobenzene	7500	ug/l	<40.0	U
2,4,5-Trichlorophenol	400000	ug/l	<40.0	U
2,4,6-Trichlorophenol	2000	ug/l	<40.0	U
2,4-Dinitrotoluene	130	ug/l	<40.0	U
Cresols, (as m,p,o-Cresol)	20000	ug/l	<80.0	U
Hexachlorobenzene	130	ug/l	<40.0	U
Hexachlorobutadiene	500	ug/l	<40.0	U
Hexachloroethane	3000	ug/l	<40.0	U
Nitrobenzene	2000	ug/l	<40.0	U
Pentachlorophenol	100000	ug/l	<80.0	U
Pyridine	5000	ug/l	<40.0	U
TCLP- SW7470				
Mercury	0.2	mg/L	<0.00200	U
TCLP - SW6010				
Arsenic	5	mg/L	<0.500	U
Barium	100	mg/L	<0.500	U
Cadmium	1	mg/L	<0.0250	U
Chromium, Total	5	mg/L	<0.500	U
Lead	5	mg/L	<0.500	U
Selenium	1	mg/L	<0.200	U
Silver	5	mg/L	<0.500	U
TCLP - 8081B				
Chlordane	30	ug/L	<10	U
Endrin	20	ug/L	<2.0	U
Gamma Bhc (Lindane)	400	ug/L	<2.0	U
Heptachlor	8	ug/L	<2.0	U
Heptachlor Epoxide	8	ug/L	<2.0	U
Methoxychlor	10000	ug/L	<10	U
Toxaphene	500	ug/L	<20	U
TCLP- SW8151A				
2,4-D (Dichlorophenoxyacetic Acid)	10	mg/L	<0.050	U
Silvex (2,4,5-TP)	1	mg/L	<0.050	U

Table 1
Coal Yard Tunnel Junction Building NAPL CCR
Riverview Innovation & Technology Campus, Inc.,
Tonawanda, New York

Analytes		SAMPLE ID:	CYTJ-NAPL-01202023	
		SAMPLE DATE:	1/20/2023	
		LAB REPORT:	230266	
	TCLP STANDARDS	UNITS	NAPL soaked absorbent media near Coal Yard Tunnel Junction Building	
Ignitability EPA 1030				
Ignitability		mm/sec	No Burn	
SW7.3.3.2				
Reactive Cyanide		mg/kg	<1.0	
SW7.3.4.2				
Sulfide Reactive		mg/kg	<10	
Notes:				
NS = Not Sampled				
NA = Sample collected, but not analyzed				
U = Not detected over method detection limit				
J = Analyte detected below quantitation limits				
Bold = Analyte was detected				
Bold with red highlight: Analyte exceeds TCLP standards or is characteristically hazardous for corrosivity, flammability, or reactivity.				

Appendix A – Memorandum: Revised Non-aqueous Phase Liquid Response

INVENTUM ENGINEERING

January 18, 2023

To: Benjamin McPherson, Angela Martin

From: John Black

CC: John Yensan, Dan Flanagan, Matt Reardon, Todd Waldrop, James Edwards, Peter Zaffram, Roxanne Birx

Re: Revised Non-aqueous Phase Liquid Response
East End of Coal Yard Tunnel Conveyor Control and Junction Building
Riverview Innovation & Technology Campus, Inc.
Town of Tonawanda, New York

Introduction

During the excavation to access and demolish the Coal Yard Tunnel Conveyor Control and Junction Building and foundation (Figure 1) a layer of granular material containing Non-aqueous Phase Liquid(NAPL, green and orange oil-like liquid) was encountered (see Attachment A). The Coal Yard Tunnel Conveyor Control and Junction Building foundation removal is targeting foundation walls above elevation 602-feet above mean sea level (ft-msl). Portions of the foundation and inner walls are much deeper and are being removed to allow equipment removal (conveyors and supporting equipment) and access for backfill placement. The building and foundation removal was presumed to be a clean, ie: not a Brownfield Cleanup Program (BCP), activity, consistent with the Coal Yard Tunnel demolition. Following removal of allequipment and inner walls that would prevent proper backfill placement, the walls and floor will be inspected,surveyed using the onsite GPS and backfilled with the tested and clean brick and concrete from the site. The brick and concrete will be used until the elevation of the surrounding fill is reached. The upper 4 feet will be filled with the coke and breeze removed to access the foundation. All coke and breeze will be inspected to ensure there is no evidence of NAPL or tar in the backfill.

At the east end of the excavation, northeast of the Coal Yard Tunnel, approximately 1-gallon of oil-like NAPL was encountered on January 3, 2023 flowing from a granular layer at approximately 4-feet below (the original) ground surface (BGS). The granular layer was immediately above the site-wide silty Clay and below general site-wide coke and coke breeze fill. Impacts were not observed in the coke and coke breeze fill. The zone containing and conveying the NAPL is granular and similar to the rail line ballast encountered on other areas of the BCP Site. Slag like material could be observed along with ash, coal, coke, wood, sand and gravel. The layer varies between approximately 8 to 16 inches thick.

The NAPL material encountered on January 3, 2023 was a thin layer and was collected using absorbent pads and booms. On January 10, 2023 additional NAPL was encountered as the excavation was extended to the east. Again, the NAPL was primarily a thin layer on flowing groundwater. One seep had a higher volume of NAPL that formed a floating layer on the water at the discharge from the granular zone. The

NAPL material encountered January 10, 2023 was contained with clay from the excavation and absorbent booms that remain in place.

Test Pit Exploratory Excavations

In order to prepare this memorandum and in an attempt to determine if there was a ongoing source (such as a tank or pipe) of the NAPL, a series of four exploratory test trenches were advanced from the eastern benched area of the excavation to determine:

(1) if there was a leaking buried tank or pipeline and

(2) to estimate the limits of the NAPL.

No buried tank or pipe was found.

As shown on Figures 1 and 2 the NAPL is estimated to cover approximately 700 square feet, lies immediately on top of the silty clay that is typical of the BCP Site, and is contained in an estimated 50 cubic yards of the granular fill. The estimate is provided solely for planning the next phase of excavation.

During excavation[1] of the exploratory trenches the following observations (Figure 2) were made:

- No underground tank or pipes were encountered.
- The NAPL may be from multiple releases or of different ages as some was a green color and other orange.
- The NAPL flowed from a layer of granular material that was placed over the clay. The granular material observed distinct from the overlying coke and breeze fill and the underlying clay.
- In the exploratory trench TP-CD-01 and TP-CD-02, a small amount of viscous tar and several sections (approximately 12-inches long) of mixed tar and coke were identified along with the NAPL (Figure 2).
- No NAPL was identified in the two northern exploratory trenches.

Proposed Excavation

The excavation was conducted to bench down to allow access to the the base of the foundation and the lower section of the former coal conveyor tunnel. The 3.5 to 4 feet of material removed for the benching showed no signs of NAPL or Tar impacts. The base of the foundation contains the remains of the coal breaker building conveyor and other unidentified debris. The foundation floods form sources of water along the sides of the former structure, but the water in the foundation cavity does not, and has never been observed to have a sheen, or any evidence of NAPL.

The building foundation and associated debris are exposed and the foundation is dewatered. OSC would like to remove the debris and fill the foundation while it is exposed. As shown in Figure 1, the NAPL lies east of the foundation and Coal Yard Tunnel, so the following is proposed to manage the NAPL and Prevent the NAPL from flowing toward the closed structures:

[1] Note: the exploratory trenches were excavated after the overburden fill was excavated.

- A temporary berm of silty clay from the benching excavation will be used to prevent migration from the benching excavation. No material is being imported from another part of the BCP Site;
- the NAPL will be removed with absorbent materials and placed in drums, sampled and a profile will be prepared for disposal approval. The drum(s) will be labeled non-hazardous pending analysis and dated January 3, 2023 (the first date of accumulation);
- the water phase will be treated through the temorary treatment plant in the coal yard, through filters and granulated activated carbon and discharged to the Town of Tonawanda sewer in accordance with Permit No. 331. The NAPl removal at the source, followed by two stages of filtration will prevent any separate phase materials from reaching the sewer;
- the cover fill/soils will be removed and stockpiled. The cover materials are distinct and no materials with evidence of NAPL or Tar will be stockpiled;
- the layer of impacted material will be removed until no evidence of NAPL is observed, or the excavation is more than 50 feet from the foundation excavation. The impacted materials will be stockpiled on polyethylene sheeting in the grossly contaminated staging area in the Thaw Shed;
- the limits of the excavation will be backfilled with clay from the foundation excavation (No clay will be imported to the area) up to the elevation of the top of the granular fill (presumed rail bedding materials) around the perimeter of the eastern excavation. The clay was inspected, no signs of impact, and screened with a PiD, all readings were 0.; and
- the overburden will be replaced. The placement of the overburden will provide a second opportunity to observe the material to ensure no NAPL or Tar impacted material is used as fill.

Sampling

The following samples will be collected:

1. NAPL – If any free phase liquid is present in the drum it will be sampled and analysed prior to solidification. The NAPL will be analyzed for Target Compound List (TCL) Volitile Organic Compounds (VOCs), TCL Semi-Volitile Organic Compounds (SVOCs), Target Analyte List (TAL) Metals including mercury, cyanide and Polychlorinated Biphenyls (PCBs), and Hazardous Characteristics (TCLP, Ignitability, Corrosivity and Reactivity).
2. NAPL containing Absorbant - Absent a recoverable sample of the NAPL, a represntative sample of the most saturated absorbent material will be submitted for analysis for disposal profiling, including but not limited to the analyses for the NAPL.

Figures

N

5 0 2.5 5 10 20

1 INCH = 5 FEET (22X34)

D

DRAWING BY	RB
CHECKED	
APPROVED	

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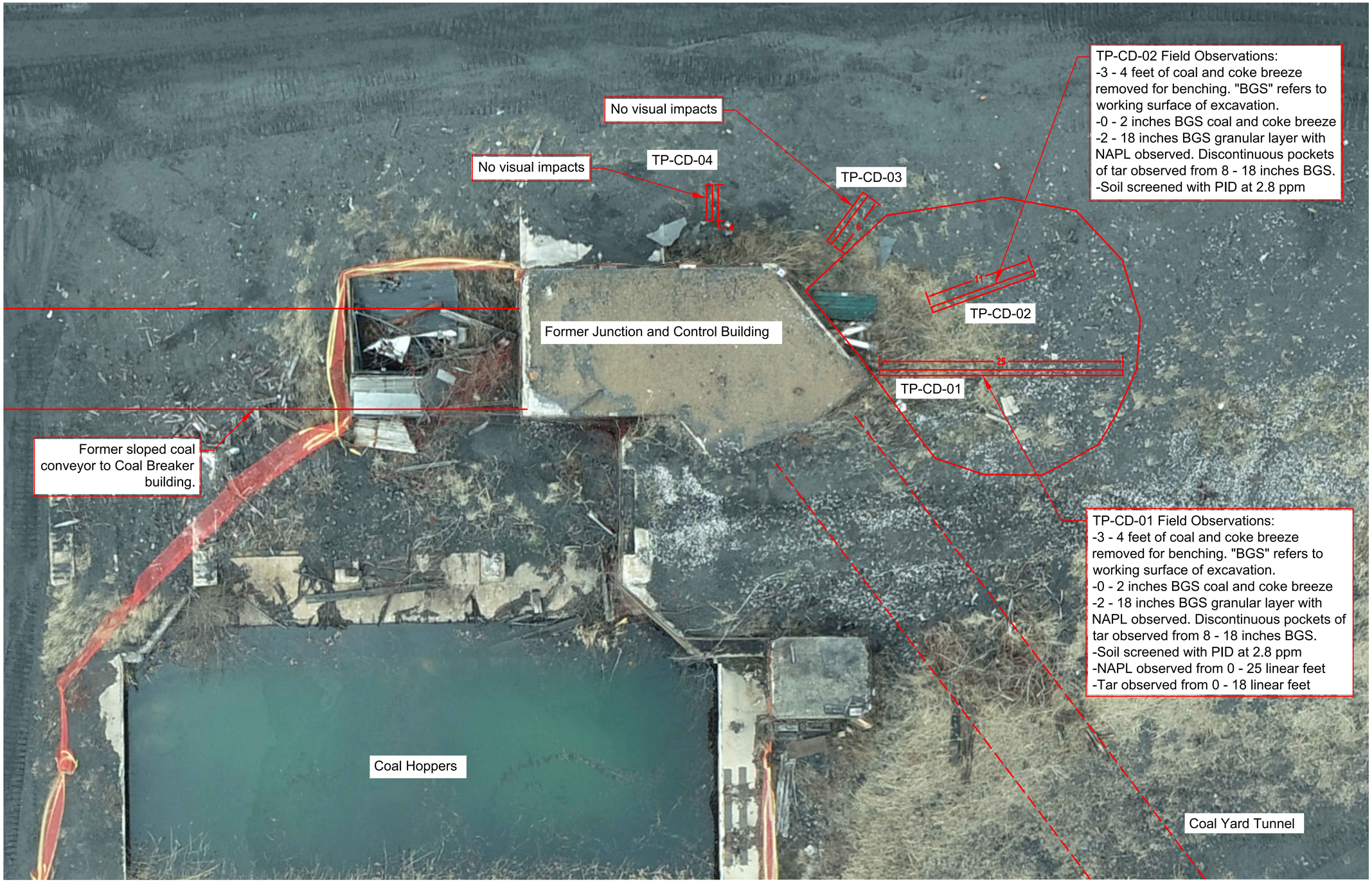
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NORTH COAL YARD TUNNEL JUNCTION
RIVERVIEW INNOVATION & TECHNOLOGY CAMPUS, INC.
3875 RIVER ROAD
TONAWANDA, NEW YORK 14150
BCP SITE No. C915353

INVENTUM ENGINEERING
441 CARLISLE DRIVE
SUITE C
HERNDON, VIRGINIA 20170
(703) 722-6049
www.InventumEng.com

FIGURE 1

DRAWING NUMBER



N

D

5 0 2.5 5 10 20

1 INCH = 5 FEET (22X34)

DRAWING BY	RB
CHECKED	
APPROVED	

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FIGURE 2

DRAWING NUMBER

Attachment A – Photographic Log

Client Name: **Riverview**	**Date of Site Visit:** January 10, 2023	**Project:** Riverview
Photo No. 1 **Direction Photo Taken:** looking southeast **Description:** Test Pit – Coal Dumper – 01 TP-CD-01		
Client Name: **Riverview**	**Date of Site Visit:** January 10, 2023	**Project:** Riverview
Photo No. 2 **Direction Photo Taken:** looking southwest **Description:** TP-CD-01		

Client Name: **Riverview**	**Date of Site Visit:** January 10, 2023	**Project:** Riverview
Photo No. 3 **Direction Photo Taken:** Looking west		
Description: TP-CD-01		
Client Name: **Riverview**	**Date of Site Visit:** January 10, 2023	**Project:** Riverview
Photo No. 4 **Direction Photo Taken:** Looking southwest		
Description: TP-CD-01		

Client Name: **Riverview**	**Date of Site Visit:** January 10, 2023	**Project:** Riverview
Photo No. 5		
Direction Photo Taken: Looking south		
Description: TP-CD-02		
Client Name: **Riverview**	**Date of Site Visit:** January 10, 2023	**Project:** Riverview
Photo No. 6		
Direction Photo Taken: Looking south		
Description: TP-CD-02		

Client Name: **Riverview**	**Date of Site Visit:** January 10, 2023	**Project:** Riverview
Photo No. **Direction Photo Taken:** View looking south **Description:** TP-CD-02		
Client Name: **Riverview**	**Date of Site Visit:** January 10, 2023	**Project:** Riverview
Photo No. **Direction Photo Taken:** View looking southeast **Description:** TP-CD-03		

Client Name: Riverview	Date of Site Visit: January 10, 2023	Project: Riverview
Photo No. 15 **Direction Photo Taken:** View looking southeast **Description:** TP-CD-03		
Client Name: Riverview	**Date of Site Visit:** January 10, 2023	**Project:** Riverview
Photo No. 16 **Direction Photo Taken:** View looking northeast **Description:** TP-CD-04		

Client Name: **Riverview**	**Date of Site Visit:** January 10, 2023	**Project:** Riverview
Photo No. 15		
Direction Photo Taken: View looking southeast		
Description: Tar impacted fill removed from TP-CD-01		
Client Name: **Riverview**	**Date of Site Visit:** January 10, 2023	**Project:** Riverview
Photo No. 16		
Direction Photo Taken: View looking south		
Description: Area reference, before test pits were performed.		

Appendix B – Photographic Log

Client Name: RITC	Date Photo was Taken: 8/2/2022	Project: RITC
Photo No. 1 **Direction Photo Taken:** View is north. **Description:** The Coal Yard Tunnel north access is exposed.		
Client Name: RITC	**Date Photo was Taken:** 8/10/2022	**Project:** RITC
Photo No. 2 **Direction Photo Taken:** View is northeast. **Description:** Overburden is removed to expose the tunnel roof.		

Client Name: RITC	**Date Photo was Taken:** 8/12/2022	**Project:** RITC
Photo No. 3		
Direction Photo Taken: View is north.		
Description: The former Rail Car Shaker access area is exposed.		
Client Name: RITC	**Date Photo was Taken:** 8/23/2022	**Project:** RITC
Photo No. 4		
Direction Photo Taken: View is north.		
Description: ACM abatement begins on the Coal Yard Tunnel.		

Client Name: RITC	Date Photo was Taken: 8/23/2022	Project: RITC
Photo No. 5 **Direction Photo Taken:** View is east. **Description:** The first section of tunnel roof is removed and the tunnel is abated.		

Client Name: RITC	Date Photo was Taken: 8/24/2022	Project: RITC
Photo No. 6 **Direction Photo Taken:** View is north. **Description:** The tunnel roof is removed and the tunnel is abated.		

Client Name: RITC	Date Photo was Taken: 8/30/2022	Project: RITC
Photo No. 7 **Direction Photo Taken:** View is northwest. **Description:** The tunnel roof is removed and the tunnel is abated.		
Client Name: RITC	**Date Photo was Taken:** 8/31/2022	**Project:** RITC
Photo No. 8 **Direction Photo Taken:** View is aerial – west. **Description:** The tunnel roof is removed and the tunnel is abated.		

Client Name: RITC	Date Photo was Taken: 9/22/2022	Project: RITC
Photo No. 9		
Direction Photo Taken: View is northwest.		
Description: The tunnel roof is removed (progressing southeast).		

Client Name: RITC	Date Photo was Taken: 9/26/2022	Project: RITC
Photo No. 10		
Direction Photo Taken: View is northwest.		
Description: The tunnel roof has been removed the south access former reclaimer feed pit is exposed and abated.		

Client Name: RITC	**Date Photo was Taken:** 10/27/2022	**Project:** RITC
Photo No. 11 **Direction Photo Taken:** View is north **Description:** The ACM contaminated debris removed from the tunnel is consolidated on the Mixing Pad for shipment to Modern Landfill.		
Client Name: RITC	**Date Photo was Taken:** 11/1/2022	**Project:** RITC
Photo No. 12 **Direction Photo Taken:** View is northwest. **Description:** The Mixing Pad is dewatered and decontaminated.		

Client Name: RITC	Date Photo was Taken: 11/9/2022	Project: RITC
Photo No. 13 **Direction Photo Taken:** View is southeast. **Description:** The first lift of backfill is placed in compacted.		
Client Name: RITC	**Date Photo was Taken:** 11/10/2022	**Project:** RITC
Photo No. 14 **Direction Photo Taken:** View is south. **Description:** Backfilled is placed in the tunnel.		

Client Name: RITC	Date Photo was Taken: 11/15/2022	Project: RITC
Photo No. 15		
Direction Photo Taken: View is north.		
Description: Backfill is placed in compacted in the tunnel.		

Client Name: RITC	Date Photo was Taken: 11/17/2022	Project: RITC
Photo No. 16		
Direction Photo Taken: View is north.		
Description: The tunnel has been backfilled.		

Client Name: RITC	Date Photo was Taken: 12/5/2022	Project: RITC
Photo No. 17 **Direction Photo Taken:** View is north. **Description:** The overburden is replaced over the tunnel.		

Client Name: RITC	Date Photo was Taken: 12/8/2022	Project: RITC
Photo No. 18 **Direction Photo Taken:** View is southeast. **Description:** The overburden is replaced over the tunnel and graded. A collection sump is installed at the southern end of the tunnel.		

Client Name: RITC	Date Photo was Taken: 4/19/2023	Project: RITC
Photo No. 19		
Direction Photo Taken: View is southwest.		
Description: Test pitting for additional piping. The Coal Yard Tunnel is to the east (left) of the test pit.		

Client Name: RITC	Date Photo was Taken: 4/19/2023	Project: RITC
Photo No. 20		
Direction Photo Taken: View is southwest.		
Description: Test pitting for additional piping. The Coal Yard Tunnel is to the east (left) of the test pit.		

Appendix C – Waste Manifests

SC 196 8.1640 CMN 1811139

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYD 088 413 377	1	(800) 839-3975	017760959 FLE

GENERATOR

5. Generator's Name and Mailing Address: RIVERVIEW INNOVATION & TECHNOL
140 LEE ST STE 200
BUFFALO, NY 14210
Generator's Phone: (716) 856-3333

Generator's Site Address (if different than mailing address)
3875 RIVER ROAD
TONAWANDA, NY 14150

6. Transporter 1 Company Name: S+C TRANS. — U.S. EPA ID Number: MIK1263 99684

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: MICHIGAN DISPOSAL WASTE TREATMEN — U.S. EPA ID Number: MID 000 724 631
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes
X	1. RQ, NA3077, Waste, Hazardous, solid, n.o.s., (Benzene), 9, PGIII, (Benzene), ERG #171	1	DT	20 EST	ton	D018
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. J220030MDI / Debris - D018

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Matt Reardon on behalf of RITC — Signature: MR on behalf of RITC — Month: 8 — Day: 7 — Year: 23

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit:
Transporter signature (for exports only): — Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: TIM CURRY — Signature: — Month: 8 — Day: 7 — Year: 23

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H110			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Vernia Saunders — Signature: — Month: 08 — Day: 08 — Year: 23

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

US ecology

Weight Ticket Summary

Customer ID: 013552

ONTARIO SPECIALTY CONTRACTING INC
140 LEE STREET, SUITE 200
BUFFALO, NY 14203

Facility: Michigan Disposal Waste Treatment Plant, 49350 North I-94 Service Drive, Belleville, Michigan 48111

Reference ID			Weight	
02-00 638785-1	**Manifest:** 017760959FLE	**Hauler:** SC	**Gross:**	81,640
08/08/2023	**Generator:** NYD088413877 RIVERVIEW INNOVATION & TECHNOLOGY CAMPUS (8		**Tare:**	39,800
	Approval: J220030MDI - Debris - D018		**Net:**	41,840

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 017760959 FLE

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et seq.

FACILITY NAME: (Please check one)

☒ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: Bmuron

US ecology

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0015837

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0015837
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	1/12/23	Friable Asbestos	1	CM	30 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	K [signature] on behalf of RITC	10/10/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address: Greiter Done

b: Phone:

c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date
Duane Vaughn	[signature]	10/10/22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	g. Date
Michelle Petrea	Michelle Petrea	10/10/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: Ontario Specialty Contacting 140 Lee Street, Suite 200 Buffalo, New York 14210 b: Phone: 716-856-3333	c: Special Handling Instructions and Additional Information:
d: Friable, Non-Friable or Both: Friable	e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan on behalf of OSC	K [signature] on behalf of OSC	10/10/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003246958
Date: 10/10/2022
Time: 10:00:24 - 10:23:11
Scale

******** Reprinted Ticket ********

Gross: 91000 POUIn Scale 1-INBOU
Tare: 38360 POUOut - Scale 2-OUTB
Net: 52640 POU

Truck: GEITER-03
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WN

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC
PO: PF

Manifest: 15837

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	26.32	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0015838

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0015838
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	1/12/23	Friable Asbestos	1	cm	30 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	K on behalf of RITC	10/10/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address:
Heitz Done
300 Green St, Buffalo NY
b: Phone:

c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date
Dupre Vaughn	Dupre Vaughn	10/10/22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	g. Date
Michelle Petrea	Michelle Petrea	10/10/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: Ontario Specialty Contracting 140 Lee Street, Suite 200 Buffalo, New York 14210 b: Phone: 716-856-3333	c: Special Handling Instructions and Additional Information:
d: Friable, Non-Friable or Both: Friable	e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan on behalf of ~~RITE~~ OSC ICC 10/10/22	K on behalf of OSC	10/10/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003247104
Date: 10/10/2022
Time: 12:36:21 - 13:13:46

******** Reprinted Ticket ********

		Scale	
Gross:	108080 POU	In	Scale 1-INBOU
Tare:	38240 POU	Out	Scale 2-OUTB
Net:	69840 POU		

Truck: GEITER-03
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC
PO: PF

Manifest: 15838

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	34.92	TON

Driver: _____

Weighmaster: Michelle,Petrea

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0015839

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0015839
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	1/12/23	Friable Asbestos cmd yard tunnel	1	cm	30 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	K on behalf of RITC	10/11/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address:
Geiter Done
300 Green St. Buffalo NY
b: Phone:

c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date
Dupre Vaughn	Dupre Vaughn	10/11/22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:
Michelle Petrea	Michelle Petrea	10/11/22

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	g. Date
~~Dupre Vaughn~~	~~Dupre Vaughn~~	~~10/11/22~~ Partial

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: Ontario Specialty Contacting 140 Lee Street, Suite 200 Buffalo, New York 14210 b: Phone: 716-856-3333	c: Special Handling Instructions and Additional Information:
d: Friable, Non-Friable or Both: Friable	e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan on behalf of OSC	K on behalf of OSC	10/11/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003247420
Date: 10/11/2022
Time: 09:52:39 - 10:17:14
Scale

******** Reprinted Ticket ********

Gross: 109240 POUIn Scale 1-INBOU
Tare: 38400 POUOut Scale 2-OUTB
Net: 70840 POU

Truck: GEITER-03
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC
PO: PF

Manifest: 15839

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	35.42	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0015840

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0015840
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 i: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

l. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
421-3267	1/12/23	Friable Asbestos	1	cm	30 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	KC on behalf of RITC	10/11/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

r: Transporter's Name and Address:
Greiter Done
300 Green St. Buffalo NY

r: Phone:

s. Transporter Authorized Agent Name (Print)	d. Signature	e. Date
Dave Vaughn		10/11/22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

r: Disposal Facility and Site Address: Modern Landfill, Inc. 4511 Pletcher Rd. Model City, NY 14107 r: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

s: Authorized Agent Name (Print)	f. Signature	q. Date
Dan Mauk		10/11/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

t: Operator's Name and Address: Ontario Specialty Contacting 4540 Lee Street, Suite 200 Buffalo, New York 14210 t: Phone: 716-856-3333	c: Special Handling Instructions and Additional Information:
k: Friable, Non-Friable or Both: Friable	e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

s. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan on behalf of OSC	KC on behalf of OSC	10/11/22

Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003247613
Date: 10/11/2022
Time: 13:19:30 - 13:50:16

******** Reprinted Ticket ********

		Scale
Gross:	125720 POU In	Scale 1-INBOU
Tare:	38360 POU Out	Scale 2-OUTB
Net:	87360 POU	

Truck: GEITER-03
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC Manifest: 15840

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	43.68	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0015841

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0015841
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	1/12/23	Friable Asbestos coal yard tunnel	1	cm	30 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	K on behalf of RITC	10/12/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address:
Geiter Done
300 Green St Buffalo
b: Phone:

c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date
Dupre Vaughn	Dupre Vaughn	10/12/22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	g. Date
Michelle Petrea	Michelle Petrea	10/12/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: Ontario Specialty Contacting 140 Lee Street, Suite 200 Buffalo, New York 14210 b: Phone: 716-856-3333	c: Special Handling Instructions and Additional Information:
d: Friable, Non-Friable or Both: Friable	e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan	K	10/12/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003247976
Date: 10/12/2022
Time: 10:49:33 - 11:11:03
Scale

******** Reprinted Ticket ********

Gross: 88620 POUIn Scale 1-INBOU
Tare: 38420 POUOut Scale 2-OUTB
Net: 50200 POU

Truck: GEITER-03
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC. Manifest: 15841

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	25.10	TON

Driver: _____

Weighmaster: Michelle Petrea

NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0015842

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0015842
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	1/12/23	Friable Asbestos coal yard tunnel	1	CM	30 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	K on behalf of RITC	10/12/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address:
Geiter Done
300 Green St, Buffalo NY

b: Phone:

c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date
Dupre Bright		10/12/22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	g. Date
Dawn Brack		10/12/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: Ontario Specialty Contacting 140 Lee Street, Suite 200 Buffalo, New York 14210 b: Phone: 716-856-3333	c: Special Handling Instructions and Additional Information:
d: Friable, Non-Friable or Both: Friable	e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan on behalf of OSC	K on behalf of OSC	10/12/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003248131
Date: 10/12/2022
Time: 13:33:54 - 14:01:07

******** Reprinted Ticket ********

		Scale
Gross:	108480 POUIn	Scale 1-INBOU
Tare:	38400 POUOut	Scale 2-OUTB
Net:	70080 POU	

Truck: GEITER-03
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC
Manifest: 15842

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	35.04	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0015843

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0015843
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	1/12/23	Friable Asbestos Coal yard tunnel	1	CM	30 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RiTC	K on behalf of RiTC	10/13/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address:
Welter Dono
300 Green St Buffalo
b: Phone:

c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date
Dave Vaughn	[signature]	10/13/22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	g. Date
[illegible]	[signature]	10/13/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: Ontario Specialty Contacting 140 Lee Street, Suite 200 Buffalo, New York 14210 b: Phone: 716-856-3333	c: Special Handling Instructions and Additional Information:
d: Friable, Non-Friable or Both: Friable	e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan	K	10/13/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003248468
Date: 10/13/2022
Time: 09:54:51 - 10:20:25

******** Reprinted Ticket ********

Scale

Gross: 100900 POUIn Scale 1-INBOU
Tare: 38580 POUOut Scale 2-OUTB
Net: 62320 POU

Truck: GEITER-03
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC Manifest: 15843

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	31.16	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0017722

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0017722
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	1/12/23	Friable Asbestos coal yard tunnel	1	CM	30 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261.or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	K C on behalf of RITC	10/13/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address:
~~Modern Disposal~~
~~4746 Model City Road~~
~~Model City, NY 14107~~
b: Phone: ~~716-754-8226~~

KC 10/13/22
Lieter Dono
300 Green St
Buffalo NY

c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date
Dwyer Vaul	Dwyer Vaul	10/13/22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate:

e: Authorized Agent Name (Print)	f. Signature	g. Date
Dawn Stark	Dawn Stark	10/13/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: ~~Precision Environmental Company~~ OSC ~~5500 Old Brecksville Road~~ 140 Lee St ~~Independence, Ohio 44131~~ Buffalo NY b: Phone:	c: Special Handling Instructions and Additional Information: Must be buried.
d: Friable, Non-Friable or Both: Friable	e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan on behalf of OSC	K C on behalf of OSC	10/13/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003248643
Date: 10/13/2022
Time: 13:07:39 - 13:30:06

******** Reprinted Ticket ********

Scale		
Gross:	100060 POUIn	Scale 1-INBOU
Tare:	38720 POUOut	Scale 2-OUTB
Net:	61340 POU	

Truck: GEITER-03
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WN

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC
Manifest: 17722

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	30.67	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0017723

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0017723
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	1/12/23	Friable Asbestos coal yard tunnel	1	CM	30 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	KC on behalf of RITC	10/14/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address: ~~Modern Disposal~~ KC 10/14/22 ~~4746 Model City Road~~ ~~Model City, NY 14107~~ Getter Done 300 Green St, Buffalo NY
b: Phone: ~~716-754-8226~~

c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date
Dave Vaughn	Dave Vaughn	10/14/22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	g. Date
Michelle Peters	Michelle Peters	10/14/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: ~~Precision Environmental Company~~ OSC ~~5500 Old Brecksville Road~~ 140 Lee Street ~~Independence, Ohio 44131~~ Buffalo NY 14210 b: Phone: KC 10/14/22	c: Special Handling Instructions and Additional Information: Must be buried.
d: Friable, Non-Friable or Both: Friable	e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Dave Vaughn	Dave Vaughn	10/14/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003248996
Date: 10/14/2022
Time: 09:44:06 - 10:07:33

******** Reprinted Ticket ********

		Scale
Gross:	115940 POUIn	Scale 1-INBOI
Tare:	38820 POUOut	Scale 2-OUTB
Net:	77120 POU	

Truck: GEITER-03
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WN

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC

Manifest: 17723

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	38.56	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0017724

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0017724
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	1/12/23	Friable Asbestos Coal yard tunnel	1	CM	30 CST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	K on behalf of RITC	10/14/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address: ~~Modern Disposal~~ ~~4746 Model City Road~~ ~~Model City, NY 14107~~ KC 10/14/22 Greiter Done 300 Green St Buffalo NY
b: Phone: ~~716-754-8226~~

c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date
Dupre Vaughn		10/14/22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	g. Date
Nathan Pinner		10/14/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: ~~Precision Environmental Company~~ OSC ~~5500 Old Brecksville Road~~ 140 Lee St ~~Independence, Ohio 44131~~ Buffalo NY b: Phone:	c: Special Handling Instructions and Additional Information: Must be buried.
d: Friable, Non-Friable or Both: **Friable**	e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan on behalf of RITC	K on behalf of RITC	10/14/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003249149
Date: 10/14/2022
Time: 12:24:43 - 12:49:16

******** Reprinted Ticket ********

Scale

Gross: 115800 POUIn Scale 1-INBOU
Tare: 38720 POUOut Scale 2-OUTB
Net: 77080 POU

Truck: GEITER-03
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC Manifest: 17724

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	38.54	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0017725

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0017725
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	1/12/23	Friable Asbestos coal hard tunnel	1	CM	30 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	K on behalf of RITC	10/17/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address: Modern Disposal 4746 Model City Road Model City, NY 14107 b: Phone: 716-754-8226	KC Geiter Dons 300 Green St Buffalo NY	
Dupe Vaughn	Dupe Vaughn	10/17/22
c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	g. Date
Dawn Smith		10/17/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: Precision Environmental Company 5500 Old Brecksville Road Independence, Ohio 44131 b: Phone:	OSC 140 Lee St Buffalo NY	c: Special Handling Instructions and Additional Information: Must be buried.

d: Friable, Non-Friable or Both: Friable	e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan	K	10/17/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003249636
Date: 10/17/2022
Time: 09:28:19 - 09:52:43

******** Reprinted Ticket ********

		Scale
Gross:	96260 POUIn	Scale 1-INBOU
Tare:	38520 POUOut	Scale 2-OUTB
Net:	57740 POU	

Truck: GEITER-03
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC Manifest: 17725

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	28.87	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0017726

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0017726
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	1/12/23	Friable Asbestos coal yard tunnel	1	CM	30 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	K on behalf of RITC	10/17/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address:	
~~Modern Disposal~~ ~~4746 Model City Road~~ ~~Model City, NY 14107~~ KC b: Phone: ~~716-754-8226~~	Greiter Done 300 Green St Buffalo NY

c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date
Dupre Vogt	Dupre Vogt	10/17/22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address:	c: US EPA Number	d: Discrepancy Indication Space:
Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226		

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate:

e: Authorized Agent Name (Print)	f. Signature	q. Date
Dawn Drew		10/19/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address:	c: Special Handling Instructions and Additional Information:
~~Precision Environmental Company~~ OSC ~~5500 Old Brecksville Road~~ 140 Lee St ~~Independence, Ohio 44131~~ Buffalo NY b: Phone:	Must be buried.

d: Friable, Non-Friable or Both: Friable	e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan	K	10/17/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003249871
Date: 10/17/2022
Time: 13:15:38 - 13:39:45

******** Reprinted Ticket ********

		Scale
Gross:	102740 POU	In Scale 1-INBOU
Tare:	38460 POU	Out Scale 2-OUTB
Net:	64280 POU	

Truck: GEITER-03
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC

Manifest: 17726

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	32.14	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0017727

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0017727
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	1/12/23	Friable Asbestos coal yard tunnel	1	cm	30 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	KC on behalf of RITC	10/18/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address: ~~Modern Disposal 4746 Model City Road Model City, NY 14107~~ KC 10/18/22 Geiter Dem 300 Green St Buffalo NY b: Phone: ~~716-754-8226~~		
Nicole Lough		10/19/22
c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.		
Michelle Peters	Michelle Peters	10/18/22
e: Authorized Agent Name (Print)	f. Signature	g. Date

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: ~~Precision Environmental Company 5500 Old Brecksville Road Independence, Ohio 44131~~ OSC 140 Lee Street Buffalo NY 14210 b: Phone:	c: Special Handling Instructions and Additional Information: Must be buried.
d: Friable, Non-Friable or Both: Friable	e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan PM	KC	10/18/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003250308
Date: 10/18/2022
Time: 10:50:53 - 11:17:18

******** Reprinted Ticket ********

		Scale	
Gross:	102720 POU	In	Scale 1-INBOU
Tare:	38780 POU	Out	Scale 2-OUTB
Net:	63940 POU		

Truck: GEITER-03
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC
Manifest: 17727

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	31.97	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0017728

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0017728
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	1/12/23	Friable Asbestos cont yard Debris	1	CM	30 Est	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	KC on behalf of RITC	10/18/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address: ~~Modern Disposal~~ ~~4746 Model City Road~~ ~~Model City, NY 14107~~ b: Phone: ~~716-754-8226~~	IC 10/18/22 Greiter Dono 300 Green St Buffalo NY

c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date
Dan Vail		10/18/22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	g. Date
Michelle Petrie	Michelle Petrie	10/18/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: ~~Precision Environmental Company~~ ~~5500 Old Brecksville Road~~ ~~Independence, Ohio 44131~~ b: Phone:	OSC 140 Lee Street Buffalo NY	c: Special Handling Instructions and Additional Information: Must be buried.

d: Friable, Non-Friable or Both: Friable	e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan PM	KC	10/18/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003250512
Date: 10/18/2022
Time: 14:23:34 - 14:56:43

******** Reprinted Ticket ********

		Scale	
Gross:	96140 POU	In	Scale 1-INBOU
Tare:	38700 POU	Out	Scale 2-OUTB
Net:	57440 POU		

Truck: GEITER-03
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC Manifest: 17728

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	28.72	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0017729

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0017729
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	1/12/23	Friable Asbestos Coal Yard Tunnel	1	DT	30 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	KC on behalf of RITC	10/24/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address:		
~~Modern Disposal~~ ~~4746 Model City Road~~ ~~Model City, NY 14107~~ b: Phone: ~~716-754-8226~~	Better Done 300 Green St Buffalo NY	
Dore Varkin		10/24/22
c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address:	c: US EPA Number	d: Discrepancy Indication Space:
Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226		

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	q. Date
		10/24/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address:	c: Special Handling Instructions and Additional Information:
~~Precision Environmental Company~~ OSC ~~5500 Old Brecksville Road~~ 140 Lee St ~~Independence, Ohio 44131~~ Buffalo NY b: Phone:	Must be buried.

d: Friable, Non-Friable or Both: Friable	e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan PM	KC	10/24/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003252344
Date: 10/24/2022
Time: 11:02:47 - 11:25:28

******** Reprinted Ticket ********

		Scale
Gross:	97600 POU In	Scale 1-INBOU
Tare:	38100 POU Out	Scale 2-OUTB
Net:	59500 POU	

Truck: GEITER-001
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC
PO: PF

Manifest: 17729

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	29.75	TON

Driver: _____

Weighmaster: Dawn Srock

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0017730

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0017730
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	1/12/23	Friable Asbestos (can you use these?)	1	DT	30 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	K on behalf of RITC	10/24/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address:
~~Modern Disposal~~
~~4746 Model City Road~~
~~Model City, NY 14107~~
b: Phone: ~~716-754-8226~~

Geite-Dono
300 Green ST
Buffalo NY

c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date
Duane Vosatka	Duane V	10/24/22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	g. Date
[illegible]	[illegible]	[illegible]

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address:
~~Precision Environmental Company~~ OSC
~~5500 Old Brecksville~~ Road 140 Lee St
~~Independence, Ohio 44131~~ Buffalo NY
b: Phone:

c: Special Handling Instructions and Additional Information:
Must be buried.

d: Friable, Non-Friable or Both: Friable

e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan AM	K	10/24/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003252501
Date: 10/24/2022
Time: 14:15:08 - 14:38:43

******** Reprinted Ticket ********

		Scale	
Gross:	104060 POU	In	Scale 1-INBOU
Tare:	38280 POU	Out	Scale 2-OUTB
Net:	65780 POU		

Truck: GEITER-001
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY
Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC
Manifest: 17730

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	32.89	TON

Driver: _____

Weighmaster: Dawn Srock

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0017731

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0017731
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	1/12/23	Friable Asbestos coal yard tunnel	1	DT	30 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	K on behalf of RITC	10/25/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address:		
~~Modern Disposal~~ ~~4746 Model City Road~~ ~~Model City, NY 14107~~ b: Phone: ~~716-754-8226.~~	Leiter Dane 300 Green St Buffalo NY	
Dupre Vaughn	Dupre Vaughn	10/25/22
c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	g. Date
Michelle Petra	Michelle Petra	10/25/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator complétes Sec. IV, e-g)

a: Operator's Name and Address: ~~Precision Environmental Company~~ ~~5500 Old Brecksville Road~~ ~~Independence, Ohio 44131~~ b: Phone:	c: Special Handling Instructions and Additional Information: Must be buried.
d: Friable, Non-Friable or Both: Friable	e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan PM	K	10/25/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003252760
Date: 10/25/2022
Time: 09:42:16 - 10:06:28

******** Reprinted Ticket ********

		Scale
Gross:	95980 POU In	Scale 3-CLAY(
Tare:	38640 POU Out	Scale 2-OUTB
Net:	57340 POU	

Truck: GEITER-001
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WN'

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC Manifest: 17731

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	28.67	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0017732

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0017732
c: Generator's Name and Location: Riverview Innovation Technology Campus 3875 River Road Tonawanda, New York 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation Technology Campus 140 Lee Street, Suite 200 Buffalo, New York 14150 f: Phone: 716-818-3390
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	1/12/23	Friable Asbestos cont. used things	1	DT	30 EST	Tons

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	K on behalf of RITC	10/25/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address: ~~Modern Disposal 4746 Model City Road Model City, NY 14107~~ Geiter Done 300 Green St Buffalo NY b: Phone: ~~716-754-8226~~		
Dugo Vaughn		10/25/22
c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	q. Date
Michelle Petrey	Michelle Petrey	10/25/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: ~~Precision Environmental Company 5500 Old Brecksville Road Independence, Ohio 44131~~ OSC 140 Lee St Buffalo NY b: Phone:	c: Special Handling Instructions and Additional Information: Must be buried.
d: Friable, Non-Friable or Both: Friable	e: Percentage Friable/NonFriable: 100% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan PM	K	10/25/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003252931
Date: 10/25/2022
Time: 12:53:23 - 13:25:26

******** Reprinted Ticket ********

		Scale	
Gross:	120100 POU	In	Scale 1-INBOU
Tare:	38200 POU	Out	Scale 2-OUTB
Net:	81900 POU		

Truck: GEITER-001
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC
Manifest: 17732

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	40.95	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0011375

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0011375
c: Generator's Name and Location: Riverview Innovation and Technology Campus 3875 River Road Tonawanda NY 14150 d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation and Technology Campus 140 Lee St, Suite 200 Buffalo NY 14210 f: Phone: 716-856-3333
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3267	01/12/23	friable asbestos	1	DT	30 EST	T

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Calligan on behalf of RITC	K on behalf of RITC	10/26/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address: Heiter Demo 300 Green St Buffalo NY

b: Phone:

c. Generator Authorized Agent Name (Print)	d. Signature	e. Date
Dupre Vaughn	Dupre Vaughn	10/26/22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: b: Phone:	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	g. Date
Michelle Lorenz	Michelle Lorenz	10/26/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: OSC 140 Lee Street Buffalo NY 14210 b: Phone:	c: Special Handling Instructions and Additional Information:
d: Friable, Non-Friable or Both:	e: Percentage Friable/NonFriable: 100% Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Calligan PM	K	

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003253307
Date: 10/26/2022
Time: 10:26:15 - 10:48:31

******** Reprinted Ticket ********

Scale

Gross: 105140 POU In Scale 1-INBOU
Tare: 38060 POU Out Scale 2-OUTB
Net: 67080 POU

Truck: GEITER-001
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC Manifest: 11375

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	33.54	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0011376

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0011376
c: Generator's Name and Location: Riverview Innovation and Technology Campus 3875 River Road Tonawanda NY 14150	e: Generator's Mailing Address: Riverview Innovation and Technology Campus 140 Lee St, Suite 200 Buffalo NY 14210
d: Generators Phone:	f: Phone:
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-32607	01/12/23	Friable asbestos contaminated debris	1	DT	30 EST	T

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	KC on behalf of RITC	10/26/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address: Geiter Dore 300 Green St, Buffalo NY b: Phone:		
c. Generator Authorized Agent Name (Print): Dore Vaughn	d. Signature: Dore Vaughn	e. Date: 10/26/22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: b: Phone:	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	q. Date
Michelle Petrea	Michelle Petrea	10/26/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: OSC 140 Lee St Buffalo NY 14210 b: Phone:	c: Special Handling Instructions and Additional Information:
d: Friable, Non-Friable or Both:	e: Percentage Friable/NonFriable: 100% Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan PM	KC	10/26/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003253510
Date: 10/26/2022
Time: 14:20:35 - 14:44:46

******** Reprinted Ticket ********

	Scale	
Gross:	98840 POUIn	Scale 1-INBOU
Tare:	38400 POUOut	Scale 2-OUTB
Net:	60440 POU	

Truck: GEITER-001
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY
Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC. Manifest: 11376
Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	30.22	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0011377

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0011377
c: Generator's Name and Location: Riverview Innovation and Technology Campus 3875 River Road Tonawanda NY d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation and Technology Campus 140 Lee St Buffalo NY f: Phone:
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
MZI- 32607	01/2/23	Friable asbestos coal yard tunnel	1	DT	30 EST	T

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	K on behalf of RITC	10-27-2022

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address:
Geiter Done
300 Green St, Buffalo NY
b: Phone:

c. Generator Authorized Agent Name (Print)	d. Signature	e. Date
Dupre Vonyla		10/27/22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: b: Phone:	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	g. Date
Michelle Petrus	Michelle Petrus	10/27/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: OSC 140 Lee St Buffalo NY 14210 b: Phone:	c: Special Handling Instructions and Additional Information:
d: Friable, Non-Friable or Both:	e: Percentage Friable/NonFriable: 100% Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan PM	K	

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003253812
Date: 10/27/2022
Time: 10:40:31 - 11:06:15

******** Reprinted Ticket ********

		Scale
Gross:	103820 POUIn	Scale 1-INBOU
Tare:	38160 POUOut	Scale 2-OUTB
Net:	65660 POU	

Truck: GEITER-001
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY

Truck Type: WF
Route: GEITERDONE/GEITER DONE TRU
Profile: M21-3267 T/RIVERVIEW INN.TEC Manifest: 11377

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	32.83	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill

NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0014489

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0014489
c: Generator's Name and Location: Riverview Innovation and Technology Campus 3875 River Road Tonawanda NY d: Generators Phone:	e: Generator's Mailing Address: Riverview Innovation and Technology Campus 140 Lee Street Buffalo NY 14210 f: Phone:
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
MZI-3267	01/12/23	FRIABLE ASBESTOS COAL YARD TUNNEL	1	OT	30 EST	T

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
DAN FLANIGAN ON BEHALF OF RITC	ON BEHALF OF RITC	10-28-2022

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address: Geiter Done 300 Green St. Buffalo NY b: Phone:		
c. Transporter Authorized Agent Name (Print)	d. Signature	e. Date

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space: Michelle Petrea 10/28/22

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	q. Date
JEFFREY DOJNIK		10/28/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: OSC 140 Lee Street Buffalo NY 14210 b: Phone:	c: Special Handling Instructions and Additional Information:
d: Friable, Non-Friable or Both:	e: Percentage Friable/NonFriable: 0% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
DAN FLANIGAN 6M		10-28-2022

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003254337
Date: 10/28/2022
Time: 11:09:35 - 11:39:49

******** Reprinted Ticket ********

		Scale
Gross:	103820 POU	In Scale 1-INBOU
Tare:	37860 POU	Out Scale 2-OUTB
Net:	65960 POU	

Truck: GEITER-004
Customer: 0005730123/OSC TONAWANDA COKE
Carrier: GEIT-001/GEITER DONE OF WNY

Truck Type: WF

Generator: 0005730123/OSC TONAWANDA COKE
Service Site:
Comment:

Profile: M21-3267 T/RIVERVIEW INN.TEC
PO: PF

Manifest: 14489

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	32.98	TON

Driver: _____

Weighmaster: Michelle Petrea

MODERN Landfill — NON-HAZARDOUS WASTE & ASBESTOS WASTE SHIPMENT RECORDS

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

0011179

Section I GENERATOR (Generator completes Section I, a-q)

a: Generator's US EPA ID Number:	b: Manifest Document Number: 0011179
c: Generator's Name and Location: Riverview Innovation & Technology Campus Inc. 3875 River Road Tonawanda, New York 14150 d: Generators Phone: KC 11/04/22	e: Generator's Mailing Address: Riverview Innovation & Technology Campus Inc. ~~3875 River Road Tonawanda, New York 14150~~ 140 Lee st, Ste 200 Buffalo NY 14210 f: Phone:
If owner of the generating facility differs from the generator, provide: g. Owner's Name:	h. Owner's Phone:

i. Waste Profile #:	j. Exp. Date	k. Waste Shipping Name and Description	l. Containers No.	l. Containers Type	m. Total Quantity	n. Unit Wt/Vol
M21-3292 KC 11/4/22 M21-3267	3/29/22	~~Wood/Metal/Brick/Concrete~~ KC 11/4/22 friable asbestos	1	roll off	40	~~Tons~~ CY

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

o. Generator Authorized Agent Name (Print)	p. Signature	q. Date
Kirsten Colligan on behalf of RITC	K on behalf of RITC	11/04/22

Section II TRANSPORTER (Generator completes Sec. II, a-b; Transporter completes Sec. II, c-e)

a: Transporter's Name and Address:
Modern Disposal Services
4746 Model City Road
Model City, NY 14107
b: Phone: 716-754-8226

c. Generator Authorized Agent Name (Print)	d. Signature	e. Date
Michael Gorbach	Michael Gorbach	11-04-22

Section III DESTINATION (Generator completes Sec. III, a-c; Destination Site completes Sec. III, d-g)

a: Disposal Facility and Site Address: Modern Landfill, Inc. 1445 Pletcher Rd. Model City, NY 14107 b: Phone: 716-754-8226	c: US EPA Number	d: Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge, the foregoing is true and accurate.

e: Authorized Agent Name (Print)	f. Signature	g. Date
Michelle Petrus	Michelle Petrus	11/4/22

Section IV ASBESTOS (Generator completes Sec. IV, a-d; Operator completes Sec. IV, e-g)

a: Operator's Name and Address: OSC 140 Lee Street, Ste 200 Buffalo NY 14210 b: Phone: 716-856-3333	c: Special Handling Instructions and Additional Information:
d: Friable, Non-Friable or Both:	e: Percentage Friable/NonFriable: 0% Friable and 0% Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Operator's Name and Title (Print)	f. Signature	g. Date
Kirsten Colligan PM	K	11/04/22

*Operator refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.

RETURN TO GENERATOR

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1003257161
Date: 11/4/2022
Time: 11:59:47 - 12:26:43

******** Reprinted Ticket ********

		Scale
Gross:	44280 POU	In Scale 1-INBOI
Tare:	41500 POU	Out Scale 2-OUTB
Net:	2780 POU	

Truck: 2590-40
Customer: 0250310002/MODERN DISPOSAL ROI
Carrier: MDS-001/MODERN DISPOSAL
Driver: MIKEGORBA/General

Truck Type: RO40
Route: M0102/MODERN ROLL OFF 02
Profile: M21-3267/RIVERVIEW INN.TECH.
PO: .

WO: 0003747778
Manifest: 11179

Generator: 0250310002/MODERN DISPOSAL ROI
Service Site: 0005730122 OSC @ TONAWANDA COKE
Comment:

Origin	Materials & Services	Quantity	Unit
141600/Tonawanda, City Of	DC Asbestos Waste	1.39	TON

Driver: _____

Weighmaster: Michelle Petrea

Appendix D – Coal Yard Tunnel Backfill Import Request

INVENTUM ENGINEERING

To: Benjamin McPherson, P.E.

From: Roxanne Birx, John Black, P.E.

Date: September 28, 2022

Re: Coal Yard Tunnel Backfill Import Request
Riverview Innovation and Technology Campus
3875 River Road
Tonawanda, NY 14150

The Coal Yard Tunnel demolition is currently being managed under the Coal Yard Tunnel ACM Removal and Closure Work Plan dated June 29th, 2022. Riverview Innovation and Technology Campus (Riverview) is proposing to backfill the tunnel with structural fill from demolition of the (1) Coal Yard tunnel roof, (2) former concrete Stack, and (3) crushed ACM-free brick from the former Battery. The three material streams meet the beneficial use criteria of Part 360.12(c)(3)(viii) such that the concrete and brick are uncontaminated, recognizable, and separated from other materials with de minimis amounts of soil or wood. The concrete and brick are considered uncontaminated as they have been analyzed for volatile organic compounds (VOCs) and semi volatile organic compounds (SVOCs) and contain less than the Commercial Soil Cleanup standards (SCOs). See Photo 1 for tunnel location on site.

The Coal Yard Tunnel is a subgrade structure that was used to convey raw coal from the historic loading areas at the rail car shaker, car tipper, and the entrance near the south ditch road to the Coal Handling Building, BCP-63 (demolished 2021). The tunnel is approximately 760 feet long and contained a steel conveyor structure, asbestos-wrapped utility piping, and accumulated sludge and coal debris. The tunnel has been excavated, the pipe insulation and pipe have been removed, and approximately 90% of the concrete roof has been removed. The sediment in the base of the remaining section of the tunnel is currently being abated as asbestos containing material (ACM). The tunnel is continually dewatered as work progresses (Photos 2 and 3). The recovered water is filtered and discharged to the Town of Tonawanda sewer outfall under Permit No. 331.

On the west side of the tunnel, an approximately 60-foot section of 4-inch diameter pipe was discovered to contain non-mobile coal tar residuals. The pipe was located between 340 and 400 feet from the north end of the tunnel. Pipe containing residuals was managed under the Pipe Management subsection of the Demolition Workplan. Piping with residuals was completely removed and no residuals were observed to have leaked from the pipe or were discovered in the tunnel cavity (Photos 3 and 4). The pipe end was capped, and coordinates recorded with a GPS (Photo 5).

The tunnel is approximately 8 feet wide, 8 feet high, and 760 feet long. The overall volume of the tunnel is approximately 1800 cubic yards. In addition, the tunnel roof was between 0 – and 10 – feet below ground surface. Approximately 8,100 cubic yards of fill were excavated to allow safe removal of the ACM.

Following placement of the tunnel backfill, the preexisting fill overburden will be placed and compacted over the tunnel location, restoring the grade and surface water flow pattern to the north ditch.

The tunnel cavity will be completely dewatered prior to placement of fill. The water pumped from the tunnel will be treated prior to discharge to the POTW outfall under Permit No. 331.

The crushed and compacted roof material is expected to fill approximately 25% of the tunnel cavity. Concrete from the former stack is expected to fill approximately 65% of the tunnel cavity. Brick from the battery will be used to fill the remaining tunnel cavity to the former roof elevation. The fill will be placed from the tunnel base to an elevation of approximately 602 feet. This elevation was selected based on proposed final grading such that sub-grade structures below 602 feet are not expected to interfere with remedial actions or final construction. Of the total tunnel length, 720 feet is at or below 602 feet of elevation. The remaining 40 feet is the sloped tunnel floor that led to the tunnel conveyor building at the north end of the structure and is partially below 602 feet elevation.

Excavated overburden material will be replaced over top of the filled tunnel cavity.

The NYS DEC Request to Reuse Fill form is attached. All requested fill materials have sampled and compared to Commercial Soil Cleanup Objectives. The laboratory reports have been attached to the request as well as a fill volume estimate calculation.

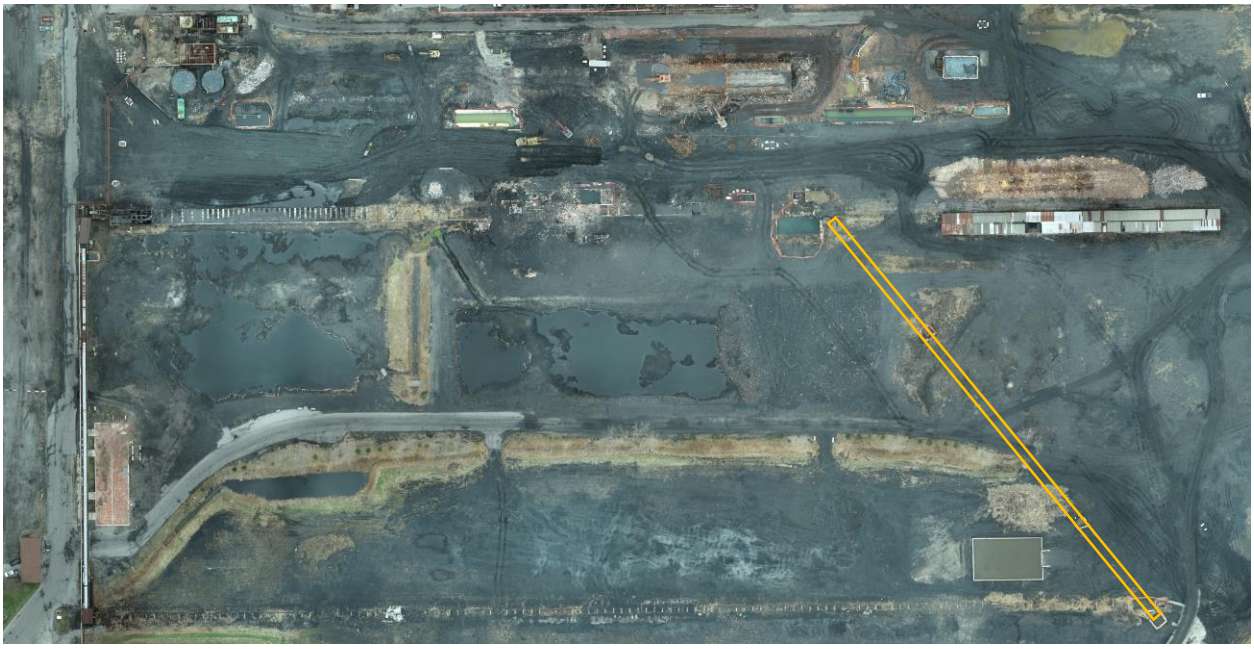


Photo 1: Aerial view of Coal Yard Tunnel.



Photo 2: The Coal Yard Tunnel, view looking south. Note that the excavated overburden is sloped on the east and west sides of the tunnel. It is proposed to be replaced over the backfilled tunnel cavity.



Photo 3: Western wall of the Coal Yard Tunnel where piping containing coal tar residuals was removed. Discoloration of the concrete in the area around the pipes is from groundwater seepage. No residuals were observed on the walls or tunnel floor.



Photo 4: The Coal Yard Tunnel, view is to the south. Typical tunnel wall and floor condition. Pipes that were removed ran along the western wall (right). All piping was completely removed.



Photo 5: The Coal Yard Tunnel on 9/12/2022, view looking north. Note that the capped pipe, with red tape on the west side of the tunnel, has been located with a GPS if pipe investigation is required after backfilling.

Enclosure

Import Request Form

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? no

Is this soil originating from the site? yes

How many cubic yards of soil will be imported/reused? >1000

If greater than 1000 cubic yards will be imported, enter volume to be imported: 1800

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? no

Is this virgin material from a permitted mine or quarry? no

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

1. One sample of concrete from the Coal Yard Tunnel roof was collected, crushed, and analyzed for TCL and TCLP VOCs and SVOCs.

2. One sample of concrete from the concrete stack was collected, crushed, and analyzed for TCL and TCLP VOCs and SVOCs.

3. 17 discrete samples of brick were collected and analyzed for asbestos.
4 discrete samples (1 from 4 types of brick identified) were collected, crushed, and analyzed for TCL and TCLP VOCs and SVOCs.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

All material streams meet the beneficial use criteria of Part 360.12(c)(3)(viii).

Evaluation tables are attached.
Tunnel Concrete:
The sample results were below Commercial SCOs.

Stack Concrete:
The sample results were below Commercial SCOs.

Battery Brick:
Note that the 17 ACM samples tested negative for asbestos.
Note that the 4 samples were all nearly non-detect. The sample of red brick contained Chrysene at 301 ug/Kg,

---

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Riverview Innovation and Technology Campus (RITC), Site Owner

Location where fill was obtained:

Site Structures - concrete from the former Tunnel Roof, former Stack concrete, and former Battery brick.

Identification of any state or local approvals as a fill source:

None

If no approvals are available, provide a brief history of the use of the property that is the fill source:

The property was historically a Coke Plant. The Battery was a structure constructed of steel coking ovens and brick. It underwent controlled demolition for asbestos containing materials. None of the proposed fill materials were visually impacted by the former plant processes, all materials are below Commercial SCOs, and the Battery Brick tested negative for asbestos.

Provide a list of supporting documentation included with this request:

1. Coal Yard Tunnel concrete Evaluation Table
2. Concrete Stack Evaluation Table
3. Battery Brick Evaluation Table
4. Laboratory Reports
5. A volume estimate for the quantity of fill proposed to backfill the open Coal Yard Tunnel. Approximately 25% of the fill will be crushed concrete from the tunnel roof, 65% from crushed stack concrete, and 10% from the former Battery brick.

The information provided on this form is accurate and complete.

Signature

9.26.2022
Date

John P. Black
Print Name

Inventum Engineering
Firm

Authorized Representative

Revised August 2014

Enclosure

Tabulated data from analytical testing.

Table 1. Coal Yard Tunnel Concrete Results

Table 2. Stack Concrete Results

Table 3. Battery Brick Results

Table 1
Analytical Data
Coal Yard Tunnel Concrete
Riverview Innovation Technology Campus
NYSDEC Site No. C915353
Town of Tonawanda, New York

Analytes	Part 375 SCOs		Units	COALYARD-CONCRETE-08172022			
	Commercial	Industrial					
	Sample Date:			8/17/2022			
	Contents:			Concrete			
	Formation/Location:			Coal Yard Tunnel Roof			
TCL VOCs (SW8260C)							
1,1,1-Trichloroethane (TCA)	500,000	1,000,000	ug/kg	<0.17	U		
1,1,2,2-Tetrachloroethane			ug/kg	<0.17	U		
1,1,2-Trichloroethane			ug/kg	<0.28	U		
1,1,2-Trichloro-1,2,2-Trifluoroethane			ug/kg	<0.72	U		
1,1-Dichloroethane	240,000	480,000	ug/kg	<0.15	U		
1,1-Dichloroethene	500,000	1,000,000	ug/kg	<0.25	U		
1,2,3-Trichlorobenzene			ug/kg	<0.34	U		
1,2,4-Trichlorobenzene			ug/kg	<0.28	U		
1,2-Dibromo-3-Chloropropane			ug/kg	<1.0	U		
1,2-Dibromoethane (Ethylene Dibromide)			ug/kg	<0.29	U		
1,2-Dichlorobenzene	500,000	1,000,000	ug/kg	<0.15	U		
1,2-Dichloroethane	30,000	60,000	ug/kg	<0.27	U		
1,2-Dichloropropane			ug/kg	<0.13	U		
1,3-Dichlorobenzene	280,000	560,000	ug/kg	<0.16	U		
1,4-Dichlorobenzene	130,000	250,000	ug/kg	<0.18	U		
1,4-Dioxane (P-Dioxane)	130,000	250,000	ug/kg	<37.0	U		
Methyl Ethyl Ketone (2-Butanone)	500,000	1,000,000	ug/kg	<2.3	U		
2-Hexanone			ug/kg	<1.2	U		
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)			ug/kg	<1.3	U		
Acetone	500,000	1,000,000	ug/kg	**16**			
Benzene	44,000	89,000	ug/kg	**0.37**	J		
Bromochloromethane			ug/kg	<0.21	U		
Bromodichloromethane			ug/kg	<0.11	U		
Bromoform			ug/kg	<0.26	U		
Bromomethane			ug/kg	<0.61	U		
Carbon Disulfide			ug/kg	<4.8	U		
Carbon Tetrachloride	22,000	44,000	ug/kg	<0.24	U		
Chlorobenzene	500,000	1,000,000	ug/kg	<0.13	U		
Chloroethane			ug/kg	<0.47	U		
Chloroform	350,000	700,000	ug/kg	<0.15	U		
Chloromethane			ug/kg	<0.98	U		
Cyclohexane			ug/kg	**1.2**	J		
Dibromochloromethane			ug/kg	<0.15	U		
Dichlorodifluoromethane			ug/kg	<0.96	U		
Methylene Chloride	500,000	1,000,000	ug/kg	<2.4	U		
Ethylbenzene	390,000	780,000	ug/kg	**1.9**			
Isopropylbenzene (Cumene)			ug/kg	**0.94**	J		
Methyl Acetate			ug/kg	<1.0	U		
Methyl Tert-Butyl Ether	500,000	1,000,000	ug/kg	<0.21	U		
Methylcyclohexane			ug/kg	**2.1**	J		
Styrene			ug/kg	<0.20	U		
Tetrachloroethene	150,000	300,000	ug/kg	<0.20	U		
Toluene	500,000	1,000,000	ug/kg	**2.2**			
Trichloroethene	200,000	400,000	ug/kg	<0.14	U		
Trichlorofluoromethane			ug/kg	<0.73	U		
Vinyl Chloride	13,000	27,000	ug/kg	<0.35	U		
Cis-1,2-Dichloroethylene	500,000	1,000,000	ug/kg	<0.18	U		
Cis-1,3-Dichloropropene			ug/kg	<0.16	U		
m,p-Xylene	500,000	1,000,000	ug/kg	**10**			
O-Xylene (1,2-Dimethylbenzene)	500,000	1,000,000	ug/kg	**3.0**			
Trans-1,2-Dichloroethene	500,000	1,000,000	ug/kg	<0.14	U		
Trans-1,3-Dichloropropene			ug/kg	<0.28	U		

Table 1
Analytical Data
Coal Yard Tunnel Concrete
Riverview Innovation Technology Campus
NYSDEC Site No. C915353
Town of Tonawanda, New York

Analytes	Part 375 SCOs		Units	COALYARD-CONCRETE-08172022			
	Commercial	Industrial					
			Sample Date:	8/17/2022			
			Contents:	Concrete			
			Formation/Location:	Coal Yard Tunnel Roof			
TCL SVOCs (SW8270D)							
1,2,4,5-Tetrachlorobenzene			ug/kg	<18.0	U		
2,3,4,6-Tetrachlorophenol			ug/kg	<35.0	U		
2,4,5-Trichlorophenol			ug/kg	<33.0	U		
2,4,6-Trichlorophenol			ug/kg	<33.0	U		
2,4-Dichlorophenol			ug/kg	<28.0	U		
2,4-Dimethylphenol			ug/kg	<58.0	U		
2,4-Dinitrophenol			ug/kg	<81.0	U		
2,4-Dinitrotoluene			ug/kg	<35.0	U		
2,6-Dinitrotoluene			ug/kg	<30.0	U		
2-Chloronaphthalene			ug/kg	<17.0	U		
2-Chlorophenol			ug/kg	<21.0	U		
2-Methylnaphthalene			ug/kg	**41**	J		
2-Methylphenol (O-Cresol)	500,000	1,000,000	ug/kg	<27.0	U		
2-Nitroaniline			ug/kg	<34.0	U		
2-Nitrophenol			ug/kg	<66.0	U		
3,3'-Dichlorobenzidine			ug/kg	<46.0	U		
Cresols, M & P	500,000	1,000,000	ug/kg	<27.0	U		
3-Nitroaniline			ug/kg	<33.0	U		
4,6-Dinitro-2-Methylphenol			ug/kg	<84.0	U		
4-Bromophenyl Phenyl Ether			ug/kg	<27.0	U		
4-Chloro-3-Methylphenol			ug/kg	<26.0	U		
4-Chloroaniline			ug/kg	<32.0	U		
4-Chlorophenyl Phenyl Ether			ug/kg	<19.0	U		
4-Nitroaniline			ug/kg	<72.0	U		
4-Nitrophenol			ug/kg	<71.0	U		
Acenaphthene	500,000	1,000,000	ug/kg	<18.0	U		
Acenaphthylene	500,000	1,000,000	ug/kg	<27.0	U		
Acetophenone			ug/kg	<22.0	U		
Anthracene	500,000	1,000,000	ug/kg	<34.0	U		
Atrazine			ug/kg	<61.0	U		
Benzo(A)Anthracene	5,600	11,000	ug/kg	**59**	J		
Benzaldehyde			ug/kg	<47.0	U		
Benzo(A)Pyrene	1,000	1,100	ug/kg	**55**	J		
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	**78**	J		
Benzo(G,H,I)Perylene	500,000	1,000,000	ug/kg	**37**	J		
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	**28**	J		
Biphenyl (Diphenyl)			ug/kg	<23.0	U		
Bis(2-Chloroisopropyl) Ether			ug/kg	<30.0	U		
Bis(2-Chloroethoxy) Methane			ug/kg	<18.0	U		
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)			ug/kg	<24.0	U		
Bis(2-Ethylhexyl) Phthalate			ug/kg	<60.0	U		
Benzyl Butyl Phthalate			ug/kg	<44.0	U		
Caprolactam			ug/kg	<53.0	U		
Carbazole			ug/kg	**20**	J		
Chrysene	56,000	110,000	ug/kg	**71**	J		
Di-N-Butyl Phthalate			ug/kg	<33.0	U		
Di-N-Octylphthalate			ug/kg	<59.0	U		
Dibenz(A,H)Anthracene	560	1,100	ug/kg	<20.0	U		
Dibenzofuran	350,000	1,000,000	ug/kg	<16.0	U		
Diethyl Phthalate			ug/kg	<16.0	U		
Dimethyl Phthalate			ug/kg	<37.0	U		
Fluoranthene	500,000	1,000,000	ug/kg	**140**			
Fluorene	500,000	1,000,000	ug/kg	**18**	J		
Hexachlorobenzene	6,000	12,000	ug/kg	<20.0	U		
Hexachlorobutadiene			ug/kg	<26.0	U		
Hexachlorocyclopentadiene			ug/kg	<160	U		
Hexachloroethane			ug/kg	<28.0	U		
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	**40**	J		
Isophorone			ug/kg	<23.0	U		
N-Nitrosodi-N-Propylamine			ug/kg	<27.0	U		
N-Nitrosodiphenylamine			ug/kg	<20.0	U		
Naphthalene	500,000	1,000,000	ug/kg	**30**	J		
Nitrobenzene			ug/kg	<26.0	U		
Pentachlorophenol	6,700	55,000	ug/kg	<38.0	U		
Phenanthrene	500,000	1,000,000	ug/kg	**160**			
Phenol	500,000	1,000,000	ug/kg	**47**	J		
Pyrene	500,000	1,000,000	ug/kg	**110**			

Table 1
Analytical Data
Coal Yard Tunnel Concrete
Riverview Innovation Technology Campus
NYSDEC Site No. C915353
Town of Tonawanda, New York

Analytes	Part 375 SCOs		Units	COALYARD-CONCRETE-08172022			
	Commercial	Industrial					
			Sample Date:	8/17/2022			
			Contents:	Concrete			
			Formation/Location:	Coal Yard Tunnel Roof			
TCLP Semi-Volatile Organics							
1,4-Dichlorobenzene	7500	7500	ug/L	NS			
2,4,5-Trichlorophenol	400000	400000	ug/L	<1.9	U		
2,4,6-Trichlorophenol	2000	2000	ug/L	<2.5	U		
2,4-Dinitrotoluene	130	130	ug/L	<1.9	U		
Cresols (as m,p,o-Cresol)	200000	200000	ug/L	<2.8	U		
Hexachlorobenzene	130	130	ug/L	<3.4	U		
Hexachlorobutadiene	500	500	ug/L	<3.0	U		
Hexachloroethane	3000	3000	ug/L	<2.2	U		
Nitrobenzene	2000	2000	ug/L	<3.3	U		
Pentachlorophenol	100000	100000	ug/L	<9.8	U		
Pyridine	5000	5000	ug/L	<4.5	U		
TCLP Volatile Organics							
1,1-Dichloroethene	700	700	ug/L	<1.7	U		
1,2-Dichloroethane	500	500	ug/L	<1.3	U		
2-Butanone	200000	200000	ug/L	<19.0	U		
Benzene	500	500	ug/L	<1.6	U		
Carbon Tetrachloride	500	500	ug/L	<1.3	U		
Chlorobenzene	100000	100000	ug/L	<1.8	U		
Chloroform	6000	6000	ug/L	<2.2	U		
Tetrachloroethene	700	700	ug/L	<1.8	U		
Trichloroethene	500	500	ug/L	<1.8	U		
Vinyl chloride	200	200	ug/L	<0.71	U		

Legend:	
Bold	Detected
U	Not detected above method detection limit
ND	Non detected
NS	Not sampled
SU	Standard units
PPM	Parts per million
mg/l	Miligrams per liter
ug/l	Micrograms per liter
D	Sample or matrix spike duplicate results above relative prercent difference limit
L	Laboratory control sample recovery outside accepted QC limits
M	Matrix spike recoveries outside QC limits. Matrix bias indicated

Table 2
Analytical Data
Crushed Concrete from Former Stack
Riverview Innovation Technology Campus
NYSDEC Site No. C915353
Town of Tonawanda, New York

Analytes	Part 375 SCOs		Units	STACK-CONCRETE-09202022	
	Commercial	Industrial			
			Sample Date:	9/20/2022	
			Contents:	Concrete	
			Formation/Location:	Concrete Stack	
TCL VOCs (SW8260C)					
1,1,1-Trichloroethane (TCA)	500,000	1,000,000	ug/kg	<0.17	U
1,1,2,2-Tetrachloroethane			ug/kg	<0.17	U
1,1,2-Trichloroethane			ug/kg	<0.27	U
1,1,2-Trichloro-1,2,2-Trifluoroethane			ug/kg	<0.71	U
1,1-Dichloroethane	240,000	480,000	ug/kg	<0.15	U
1,1-Dichloroethene	500,000	1,000,000	ug/kg	<0.24	U
1,2,3-Trichlorobenzene			ug/kg	<0.33	U
1,2,4-Trichlorobenzene			ug/kg	<0.28	U
1,2-Dibromo-3-Chloropropane			ug/kg	<1.0	U
1,2-Dibromoethane (Ethylene Dibromide)			ug/kg	<0.28	U
1,2-Dichlorobenzene	500,000	1,000,000	ug/kg	<0.15	U
1,2-Dichloroethane	30,000	60,000	ug/kg	<0.26	U
1,2-Dichloropropane			ug/kg	<0.13	U
1,3-Dichlorobenzene	280,000	560,000	ug/kg	<0.15	U
1,4-Dichlorobenzene	130,000	250,000	ug/kg	<0.17	U
1,4-Dioxane (P-Dioxane)	130,000	250,000	ug/kg	<36.0	U
Methyl Ethyl Ketone (2-Butanone)	500,000	1,000,000	ug/kg	**3.2**	J
2-Hexanone			ug/kg	<1.2	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)			ug/kg	<1.3	U
Acetone	500,000	1,000,000	ug/kg	**28**	
Benzene	44,000	89,000	ug/kg	**5.0**	
Bromochloromethane			ug/kg	<0.21	U
Bromodichloromethane			ug/kg	<0.11	U
Bromoform			ug/kg	<0.25	U
Bromomethane			ug/kg	<0.59	U
Carbon Disulfide			ug/kg	<4.6	U
Carbon Tetrachloride	22,000	44,000	ug/kg	<0.23	U
Chlorobenzene	500,000	1,000,000	ug/kg	<0.13	U
Chloroethane			ug/kg	<0.46	U
Chloroform	350,000	700,000	ug/kg	<0.14	U
Chloromethane			ug/kg	<0.95	U
Cyclohexane			ug/kg	<0.55	U
Dibromochloromethane			ug/kg	<0.14	U
Dichlorodifluoromethane			ug/kg	<0.93	U
Methylene Chloride	500,000	1,000,000	ug/kg	<2.3	U
Ethylbenzene	390,000	780,000	ug/kg	**0.31**	J
Isopropylbenzene (Cumene)			ug/kg	<0.11	U
Methyl Acetate			ug/kg	<0.97	U
Methyl Tert-Butyl Ether	500,000	1,000,000	ug/kg	<0.20	U
Methylcyclohexane			ug/kg	**0.75**	J
Styrene			ug/kg	<0.20	U
Tetrachloroethene	150,000	300,000	ug/kg	<0.20	U
Toluene	500,000	1,000,000	ug/kg	**2.4**	
Trichloroethene	200,000	400,000	ug/kg	<0.14	U
Trichlorofluoromethane			ug/kg	<0.71	U
Vinyl Chloride	13,000	27,000	ug/kg	<0.34	U
Cis-1,2-Dichloroethylene	500,000	1,000,000	ug/kg	<0.18	U
Cis-1,3-Dichloropropene			ug/kg	<0.16	U
m,p-Xylene	500,000	1,000,000	ug/kg	**1.4**	J
O-Xylene (1,2-Dimethylbenzene)	500,000	1,000,000	ug/kg	**0.90**	J
Trans-1,2-Dichloroethene	500,000	1,000,000	ug/kg	<0.14	U
Trans-1,3-Dichloropropene			ug/kg	<0.28	U

Table 2
Analytical Data
Crushed Concrete from Former Stack
Riverview Innovation Technology Campus
NYSDEC Site No. C915353
Town of Tonawanda, New York

Analytes	Part 375 SCOs		Units	STACK-CONCRETE-09202022	
	Commercial	Industrial			
			Sample Date:	9/20/2022	
			Contents:	Concrete	
			Formation/Location:	Concrete Stack	
TCL SVOCs (SW8270D)					
1,2,4,5-Tetrachlorobenzene			ug/kg	<18.0	U
2,3,4,6-Tetrachlorophenol			ug/kg	NS	
2,4,5-Trichlorophenol			ug/kg	<34.0	U
2,4,6-Trichlorophenol			ug/kg	<33.0	U
2,4-Dichlorophenol			ug/kg	<28.0	U
2,4-Dimethylphenol			ug/kg	<58.0	U
2,4-Dinitrophenol			ug/kg	<82.0	U
2,4-Dinitrotoluene			ug/kg	<35.0	U
2,6-Dinitrotoluene			ug/kg	<30.0	U
2-Chloronaphthalene			ug/kg	<17.0	U
2-Chlorophenol			ug/kg	<21.0	U
2-Methylnaphthalene			ug/kg	**140**	J
2-Methylphenol (O-Cresol)	500,000	1,000,000	ug/kg	**600**	
2-Nitroaniline			ug/kg	<34.0	U
2-Nitrophenol			ug/kg	<66.0	U
3,3'-Dichlorobenzidine			ug/kg	<47.0	U
Cresols, M & P	500,000	1,000,000	ug/kg	**2100**	
3-Nitroaniline			ug/kg	<33.0	U
4,6-Dinitro-2-Methylphenol			ug/kg	<84.0	U
4-Bromophenyl Phenyl Ether			ug/kg	<27.0	U
4-Chloro-3-Methylphenol			ug/kg	<26.0	U
4-Chloroaniline			ug/kg	<32.0	U
4-Chlorophenyl Phenyl Ether			ug/kg	<19.0	U
4-Nitroaniline			ug/kg	<73.0	U
4-Nitrophenol			ug/kg	<72.0	U
Acenaphthene	500,000	1,000,000	ug/kg	**21**	J
Acenaphthylene	500,000	1,000,000	ug/kg	**180**	
Acetophenone			ug/kg	<22.0	U
Anthracene	500,000	1,000,000	ug/kg	**110**	
Atrazine			ug/kg	NS	
Benzo(A)Anthracene	5,600	11,000	ug/kg	**270**	
Benzaldehyde			ug/kg	NS	
Benzo(A)Pyrene	1,000	1,100	ug/kg	**250**	
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	**340**	
Benzo(G,H,I)Perylene	500,000	1,000,000	ug/kg	**180**	
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	**95**	J
Biphenyl (Diphenyl)			ug/kg	**31**	J
Bis(2-Chloroisopropyl) Ether			ug/kg	<30.0	U
Bis(2-Chloroethoxy) Methane			ug/kg	<18.0	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)			ug/kg	<24.0	U
Bis(2-Ethylhexyl) Phthalate			ug/kg	<61.0	U
Benzyl Butyl Phthalate			ug/kg	<44.0	U
Caprolactam			ug/kg	NS	
Carbazole			ug/kg	**96**	J
Chrysene	56,000	110,000	ug/kg	**280**	
Di-N-Butyl Phthalate			ug/kg	<33.0	U
Di-N-Octylphthalate			ug/kg	<60.0	U
Dibenz(A,H)Anthracene	560	1,100	ug/kg	**40**	J
Dibenzofuran	350,000	1,000,000	ug/kg	**91**	J
Diethyl Phthalate			ug/kg	<16.0	U
Dimethyl Phthalate			ug/kg	<37.0	U
Fluoranthene	500,000	1,000,000	ug/kg	**730**	
Fluorene	500,000	1,000,000	ug/kg	**89**	J
Hexachlorobenzene	6,000	12,000	ug/kg	<20.0	U
Hexachlorobutadiene			ug/kg	<26.0	U
Hexachlorocyclopentadiene			ug/kg	<160	U
Hexachloroethane			ug/kg	<28.0	U
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	**210**	
Isophorone			ug/kg	<23.0	U
N-Nitrosodi-N-Propylamine			ug/kg	<27.0	U
N-Nitrosodiphenylamine			ug/kg	<20.0	U
Naphthalene	500,000	1,000,000	ug/kg	**1100**	
Nitrobenzene			ug/kg	<26.0	U
Pentachlorophenol	6,700	55,000	ug/kg	<39.0	U
Phenanthrene	500,000	1,000,000	ug/kg	**560**	
Phenol	500,000	1,000,000	ug/kg	**4400**	
Pyrene	500,000	1,000,000	ug/kg	**550**	

Table 2
Analytical Data
Crushed Concrete from Former Stack
Riverview Innovation Technology Campus
NYSDEC Site No. C915353
Town of Tonawanda, New York

Analytes	Part 375 SCOs		Units	STACK-CONCRETE-09202022	
	Commercial	Industrial			
			Sample Date:	9/20/2022	
			Contents:	Concrete	
			Formation/Location:	Concrete Stack	
TCLP Semi-Volatile Organics					
1,4-Dichlorobenzene	7500	7500	ug/L	NS	
2,4,5-Trichlorophenol	400000	400000	ug/L	<1.9	U
2,4,6-Trichlorophenol	2000	2000	ug/L	<2.5	U
2,4-Dinitrotoluene	130	130	ug/L	<1.9	U
3 & 4 Methylphenol (m,p-Cresol)	200000	200000	ug/L	**88**	
2-Methylphenol (o-Cresol)	200000	200000	ug/L	**25**	
Hexachlorobenzene	130	130	ug/L	<3.4	U
Hexachlorobutadiene	500	500	ug/L	<3.0	U
Hexachloroethane	3000	3000	ug/L	<2.2	U
Nitrobenzene	2000	2000	ug/L	<3.3	U
Pentachlorophenol	100000	100000	ug/L	<9.8	U
Pyridine	5000	5000	ug/L	<4.5	U
TCLP Volatile Organics					
1,1-Dichloroethene	700	700	ug/L	<1.7	U
1,2-Dichloroethane	500	500	ug/L	<1.3	U
2-Butanone	200000	200000	ug/L	<19.0	U
Benzene	500	500	ug/L	<1.6	U
Carbon Tetrachloride	500	500	ug/L	<1.3	U
Chlorobenzene	100000	100000	ug/L	<1.8	U
Chloroform	6000	6000	ug/L	<2.2	U
Tetrachloroethene	700	700	ug/L	<1.8	U
Trichloroethene	500	500	ug/L	<1.8	U
Vinyl chloride	200	200	ug/L	<0.71	U

Legend:	
Bold	Detected
U	Not detected above method detection limit
ND	Non detected
NS	Not sampled
SU	Standard units
PPM	Parts per million
mg/l	Miligrams per liter
ug/l	Micrograms per liter
D	Sample or matrix spike duplicate results above relative prercent differenc
L	Laboratory control sample recovery outside accepted QC limits
M	Matrix spike recoveries outside QC limits. Matrix bias indicated

Table 3
Analytical Data
Battery Brick and Refractory
Riverview Innovation Technology Campus
NYSDEC Site No. C915353
Town of Tonawanda, New York

Analytes	Part 375 SCOs		Units	BRICK-MULTI-03222022		BRICK-RED-03222022		BRICK-YELW-03222022		BRICK-GRAY-03282022	
	Commercial	Industrial									
Sample Date:				3/22/2022		3/22/2022		3/22/2022		3/28/2022	
Contents:				Refractory Brick		Refractory Brick		Refractory Brick		Refractory Brick	
Formation/Location:				Battery		Battery		Battery		Battery	
TCL VOCs (SW8260C)											
1,1,1-Trichloroethane (TCA)	500,000	1,000,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
1,1,2,2-Tetrachloroethane			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
1,1,2-Trichloroethane			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
1,1,2-Trichloro-1,2,2-Trifluoroethane			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
1,1-Dichloroethane	240,000	480,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
1,1-Dichloroethene	500,000	1,000,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
1,2,3-Trichlorobenzene			ug/kg	<20.8	U	<24.0	U	<14.3	U	<20.0	U
1,2,4-Trichlorobenzene			ug/kg	<20.8	U	<24.0	U	<14.3	U	<20.0	U
1,2-Dibromo-3-Chloropropane			ug/kg	<41.7	U	<48.1	U	<28.6	U	<40.0	U
1,2-Dibromoethane (Ethylene Dibromide)			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
1,2-Dichlorobenzene	500,000	1,000,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
1,2-Dichloroethane	30,000	60,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
1,2-Dichloropropane			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
1,3-Dichlorobenzene	280,000	560,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
1,4-Dichlorobenzene	130,000	250,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
1,4-Dioxane (P-Dioxane)	130,000	250,000	ug/kg	<41.7	U	<48.1	U	<28.6	U	<40.0	U
Methyl Ethyl Ketone (2-Butanone)	500,000	1,000,000	ug/kg	<41.7	U	<48.1	U	<28.6	U	<40.0	U
2-Hexanone			ug/kg	<20.8	U	<24.0	U	<14.3	U	<20.0	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)			ug/kg	<20.8	U	<24.0	U	<14.3	U	<20.0	U
Acetone	500,000	1,000,000	ug/kg	<41.7	U	<48.1	U	<28.6	U	<40.0	U
Benzene	44,000	89,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Bromochloromethane			ug/kg	<20.8	U	<24.0	U	<14.3	U	<20.0	U
Bromodichloromethane			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Bromoform			ug/kg	<20.8	U	<24.0	U	<14.3	U	<20.0	U
Bromomethane			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Carbon Disulfide			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Carbon Tetrachloride	22,000	44,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Chlorobenzene	500,000	1,000,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Chloroethane			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Chloroform	350,000	700,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Chloromethane			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Cyclohexane			ug/kg	<41.7	U	<48.1	U	<28.6	U	<40.0	U
Dibromochloromethane			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Dichlorodifluoromethane			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Methylene Chloride	500,000	1,000,000	ug/kg	<20.8	U	<24.0	U	<14.3	U	<20.0	U
Ethylbenzene	390,000	780,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Isopropylbenzene (Cumene)			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Methyl Acetate			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Methyl Tert-Butyl Ether	500,000	1,000,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Methylcyclohexane			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Styrene			ug/kg	<20.8	U	<24.0	U	<14.3	U	<20.0	U
Tetrachloroethene	150,000	300,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Toluene	500,000	1,000,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Trichloroethene	200,000	400,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Trichlorofluoromethane			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Vinyl Chloride	13,000	27,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Cis-1,2-Dichloroethylene	500,000	1,000,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Cis-1,3-Dichloropropene			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
m,p-Xylene	500,000	1,000,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
O-Xylene (1,2-Dimethylbenzene)	500,000	1,000,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Trans-1,2-Dichloroethene	500,000	1,000,000	ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U
Trans-1,3-Dichloropropene			ug/kg	<8.33	U	<9.62	U	<5.71	U	<8.00	U

Table 3
Analytical Data
Battery Brick and Refractory
Riverview Innovation Technology Campus
NYSDEC Site No. C915353
Town of Tonawanda, New York

Analytes	Part 375 SCOs		Units	BRICK-MULTI-03222022		BRICK-RED-03222022		BRICK-YELW-03222022		BRICK-GRAY-03282022	
	Commercial	Industrial									
Sample Date:				3/22/2022		3/22/2022		3/22/2022		3/28/2022	
Contents:				Refractory Brick		Refractory Brick		Refractory Brick		Refractory Brick	
Formation/Location:				Battery		Battery		Battery		Battery	
TCL SVOCs (SW8270D)											
1,2,4,5-Tetrachlorobenzene			ug/kg	<284	U	<278	U	<269	U	<284	U
2,3,4,6-Tetrachlorophenol			ug/kg	<284	U	<278	U	<269	U	<284	U
2,4,5-Trichlorophenol			ug/kg	<284	U	<278	U	<269	U	<284	U
2,4,6-Trichlorophenol			ug/kg	<284	U	<278	U	<269	U	<284	U
2,4-Dichlorophenol			ug/kg	<284	U	<278	U	<269	U	<284	U
2,4-Dimethylphenol			ug/kg	<284	U	<278	U	<269	U	<284	U
2,4-Dinitrophenol			ug/kg	<1140	U	<1110	U	<1080	U	<1140	U
2,4-Dinitrotoluene			ug/kg	<284	U	<278	U	<269	U	<284	U
2,6-Dinitrotoluene			ug/kg	<284	U	<278	U	<269	U	<284	U
2-Chloronaphthalene			ug/kg	<284	U	<278	U	<269	U	<284	U
2-Chlorophenol			ug/kg	<284	U	<278	U	<269	U	<284	U
2-Methylnaphthalene			ug/kg	<284	U	<278	U	<269	U	<284	U
2-Methylphenol (O-Cresol)	500,000	1,000,000	ug/kg	<284	U	<278	U	<269	U	<284	U
2-Nitroaniline			ug/kg	<284	U	<278	U	<269	U	<284	U
2-Nitrophenol			ug/kg	<284	U	<278	U	<269	U	<284	U
3,3'-Dichlorobenzidine			ug/kg	<284	U	<278	U	<269	U	<284	U
Cresols, M & P	500,000	1,000,000	ug/kg	<284	U	<278	U	<269	U	<284	U
3-Nitroaniline			ug/kg	<284	U	<278	U	<269	U	<284	U
4,6-Dinitro-2-Methylphenol			ug/kg	<380	U	<372	U	<360	U	<380	U
4-Bromophenyl Phenyl Ether			ug/kg	<284	U	<278	U	<269	U	<284	U
4-Chloro-3-Methylphenol			ug/kg	<284	U	<278	U	<269	U	<284	U
4-Chloroaniline			ug/kg	<284	U	<278	U	<269	U	<284	U
4-Chlorophenyl Phenyl Ether			ug/kg	<284	U	<278	U	<269	U	<284	U
4-Nitroaniline			ug/kg	<284	U	<278	U	<269	U	<284	U
4-Nitrophenol			ug/kg	<284	U	<278	U	<269	U	<284	U
Acenaphthene	500,000	1,000,000	ug/kg	<284	U	<278	U	<269	U	<284	U
Acenaphthylene	500,000	1,000,000	ug/kg	<284	U	<278	U	<269	U	<284	U
Acetophenone			ug/kg	<284	U	<278	U	<269	U	<284	U
Anthracene	500,000	1,000,000	ug/kg	<284	U	<278	U	<269	U	<284	U
Atrazine			ug/kg	<284	U	<278	U	<269	U	<284	U
Benzo(A)Anthracene	5,600	11,000	ug/kg	<284	U	<278	U	<269	U	<284	U
Benzaldehyde			ug/kg	<284	U	<278	U	<269	U	<284	U
Benzo(A)Pyrene	1,000	1,100	ug/kg	<284	U	<278	U	<269	U	<284	U
Benzo(B)Fluoranthene	5,600	11,000	ug/kg	<284	U	<278	U	<269	U	<284	U
Benzo(G,H,I)Perylene	500,000	1,000,000	ug/kg	<284	U	<278	U	<269	U	<284	U
Benzo(K)Fluoranthene	56,000	110,000	ug/kg	<284	U	<278	U	<269	U	<284	U
Biphenyl (Diphenyl)			ug/kg	<284	U	<278	U	<269	U	<284	U
Bis(2-Chloroisopropyl) Ether			ug/kg	<284	U	<278	U	<269	U	<284	U
Bis(2-Chloroethoxy) Methane			ug/kg	<284	U	<278	U	<269	U	<284	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)			ug/kg	<284	U	<278	U	<269	U	<284	U
Bis(2-Ethylhexyl) Phthalate			ug/kg	<284	U	<278	U	<269	U	<284	U
Benzyl Butyl Phthalate			ug/kg	<284	U	<278	U	<269	U	<284	U
Caprolactam			ug/kg	<284	U	<278	U	<269	U	<284	U
Carbazole			ug/kg	<284	U	<278	U	<269	U	<284	U
Chrysene	56,000	110,000	ug/kg	<284	U	**301**		<269	U	<284	U
Di-N-Butyl Phthalate			ug/kg	<284	U	<278	U	<269	U	<284	U
Di-N-Octylphthalate			ug/kg	<284	U	<278	U	<269	U	<284	U
Dibenz(A,H)Anthracene	560	1,100	ug/kg	<284	U	<278	U	<269	U	<284	U
Dibenzofuran	350,000	1,000,000	ug/kg	<284	U	<278	U	<269	U	<284	U
Diethyl Phthalate			ug/kg	<284	U	<278	U	<269	U	<284	U
Dimethyl Phthalate			ug/kg	<284	U	<278	U	<269	U	<284	U
Fluoranthene	500,000	1,000,000	ug/kg	<284	U	**499**		<269	U	<284	U
Fluorene	500,000	1,000,000	ug/kg	<284	U	<278	U	<269	U	<284	U
Hexachlorobenzene	6,000	12,000	ug/kg	<284	U	<278	U	<269	U	<284	U
Hexachlorobutadiene			ug/kg	<284	U	<278	U	<269	U	<284	U
Hexachlorocyclopentadiene			ug/kg	<1140	U	<1110	U	<1080	U	<1140	U
Hexachloroethane			ug/kg	<284	U	<278	U	<269	U	<284	U
Indeno(1,2,3-C,D)Pyrene	5,600	11,000	ug/kg	<284	U	<278	U	<269	U	<284	U
Isophorone			ug/kg	<284	U	<278	U	<269	U	<284	U
N-Nitrosodi-N-Propylamine			ug/kg	<284	U	<278	U	<269	U	<284	U
N-Nitrosodiphenylamine			ug/kg	<284	U	<278	U	<269	U	<284	U
Naphthalene	500,000	1,000,000	ug/kg	<284	U	<278	U	<269	U	<284	U
Nitrobenzene			ug/kg	<284	U	<278	U	<269	U	<284	U
Pentachlorophenol	6,700	55,000	ug/kg	<568	U	<556	U	<538	U	<568	U
Phenanthrene	500,000	1,000,000	ug/kg	<284	U	**431**		<269	U	<284	U
Phenol	500,000	1,000,000	ug/kg	<284	U	<278	U	<269	U	<284	U
Pyrene	500,000	1,000,000	ug/kg	<284	U	<278	U	<269	U	<284	U

Table 3
Analytical Data
Battery Brick and Refractory
Riverview Innovation Technology Campus
NYSDEC Site No. C915353
Town of Tonawanda, New York

Analytes	Part 375 SCOs		Units	BRICK-MULTI-03222022		BRICK-RED-03222022		BRICK-YELW-03222022		BRICK-GRAY-03282022	
	Commercial	Industrial									
Sample Date:				3/22/2022		3/22/2022		3/22/2022		3/28/2022	
Contents:				Refractory Brick		Refractory Brick		Refractory Brick		Refractory Brick	
Formation/Location:				Battery		Battery		Battery		Battery	
TCLP Semi-Volatile Organics											
1,4-Dichlorobenzene	7500	7500	ug/L	<40.0	U	<40.0	U	<40.0	U	<40.0	U
2,4,5-Trichlorophenol	400000	400000	ug/L	<40.0	U	<40.0	U	<40.0	U	<40.0	U
2,4,6-Trichlorophenol	2000	2000	ug/L	<40.0	U	<40.0	U	<40.0	U	<40.0	U
2,4-Dinitrotoluene	130	130	ug/L	<40.0	U	<40.0	U	<40.0	U	<40.0	U
Cresols (as m,p,o-Cresol)	200000	200000	ug/L	<80.0	U	<80.0	U	<80.0	U	<80.0	U
Hexachlorobenzene	130	130	ug/L	<40.0	U	<40.0	U	<40.0	U	<40.0	U
Hexachlorobutadiene	500	500	ug/L	<40.0	U	<40.0	U	<40.0	U	<40.0	U
Hexachloroethane	3000	3000	ug/L	<40.0	U	<40.0	U	<40.0	U	<40.0	U
Nitrobenzene	2000	2000	ug/L	<40.0	U	<40.0	U	<40.0	U	<40.0	U
Pentachlorophenol	100000	100000	ug/L	<80.0	U	<80.0	U	<80.0	U	<80.0	U
Pyridine	5000	5000	ug/L	<40.0	U	<40.0	U	<40.0	U	<40.0	U
TCLP Volatile Organics											
1,1-Dichloroethene	700	700	ug/L	<20.0	U	<20.0	U	<20.0	U	<20.0	U
1,2-Dichloroethane	500	500	ug/L	<20.0	U	<20.0	U	<20.0	U	<20.0	U
2-Butanone	200000	200000	ug/L	<100	U	<100	U	<100	U	<100	U
Benzene	500	500	ug/L	<20.0	U	<20.0	U	<20.0	U	<20.0	U
Carbon Tetrachloride	500	500	ug/L	<20.0	U	<20.0	U	<20.0	U	<20.0	U
Chlorobenzene	100000	100000	ug/L	<20.0	U	<20.0	U	<20.0	U	<20.0	U
Chloroform	6000	6000	ug/L	<20.0	U	<20.0	U	<20.0	U	<20.0	U
Tetrachloroethene	700	700	ug/L	<20.0	U	<20.0	U	<20.0	U	<20.0	U
Trichloroethene	500	500	ug/L	<20.0	U	<20.0	U	<20.0	U	<20.0	U
Vinyl chloride	200	200	ug/L	<20.0	U	<20.0	U	<20.0	U	<20.0	U

Legend:	
Bold	Detected
U	Not detected above method detection limit
ND	Non detected
NS	Not sampled
SU	Standard units
PPM	Parts per million
mg/l	Miligrams per liter
ug/l	Micrograms per liter
D	Sample or matrix spike duplicate results above relative prercent difference limit
L	Laboratory control sample recovery outside accepted QC limits
M	Matrix spike recoveries outside QC limits. Matrix bias indicated

Enclosure

Laboratory Reports

ANALYTICAL REPORT

Lab Number:	L2244532
Client:	Inventum Engineering 441 Carlisle Drive Suite C Herndon, NY 20170
ATTN:	John Black
Phone:	(571) 752-6562
Project Name:	RITC
Project Number:	COALYARD CNCT. REUSE
Report Date:	09/02/22

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RITC
Project Number: COALYARD CNCT. REUSE

Lab Number: L2244532
Report Date: 09/02/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2244532-01	COALYARD-CONCRETE-08172022	SOLID	TONAWANDA	08/17/22 13:35	08/17/22

Project Name:	RITC	**Lab Number:**	L2244532
Project Number:	COALYARD CNCT. REUSE	**Report Date:**	09/02/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	RITC	**Lab Number:**	L2244532
Project Number:	COALYARD CNCT. REUSE	**Report Date:**	09/02/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2244532-01: Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications

L2244532-01: The surrogate recovery is below the acceptance criteria for dibromofluoromethane (35%), possibly due to the matrix effect caused by the high pH of the sample (>10).

Semivolatile Organics

L2244532-01: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (14%) and 2,4,6-tribromophenol (6%) due to the concrete matrix effect of the sample. No further action was taken.

The WG1681024-2/-3 LCS/LCSD recoveries, associated with L2244532-01 are below the acceptance criteria for 2,4-dinitrophenol (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 09/02/22

ORGANICS

VOLATILES

Project Name: RITC **Lab Number:** L2244532

Project Number: COALYARD CNCT. REUS **Report Date:** 09/02/22

SAMPLE RESULTS

Lab ID: L2244532-01
Client ID: COALYARD-CONCRETE-08172022
Sample Location: TONAWANDA

Date Collected: 08/17/22 13:35
Date Received: 08/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8260C
Analytical Date: 08/31/22 06:29
Analyst: MM
Percent Solids: 95%
TCLP/SPLP Ext. Date: 08/30/22 09:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	99		70-130
dibromofluoromethane	105		70-130

Project Name: RITC **Lab Number:** L2244532

Project Number: COALYARD CNCT. REUS **Report Date:** 09/02/22

SAMPLE RESULTS

Lab ID: L2244532-01
Client ID: COALYARD-CONCRETE-08172022
Sample Location: TONAWANDA

Date Collected: 08/17/22 13:35
Date Received: 08/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8260C
Analytical Date: 08/25/22 14:17
Analyst: KJD
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	0.37	J	ug/kg	0.52	0.17	1
Toluene	2.2		ug/kg	1.0	0.57	1
Ethylbenzene	1.9		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: RITC **Lab Number:** L2244532

Project Number: COALYARD CNCT. REUS **Report Date:** 09/02/22

SAMPLE RESULTS

Lab ID: L2244532-01 Date Collected: 08/17/22 13:35

Client ID: COALYARD-CONCRETE-08172022 Date Received: 08/17/22

Sample Location: TONAWANDA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	10		ug/kg	2.1	0.59	1
o-Xylene	3.0		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	16		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	0.94	J	ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
Methyl Acetate	ND		ug/kg	4.2	1.0	1
Cyclohexane	1.2	J	ug/kg	10	0.57	1
1,4-Dioxane	ND		ug/kg	84	37.	1
Freon-113	ND		ug/kg	4.2	0.72	1
Methyl cyclohexane	2.1	J	ug/kg	4.2	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	**35**	Q	70-130

Project Name: RITC **Lab Number:** L2244532

Project Number: COALYARD CNCT. REUSE **Report Date:** 09/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/25/22 08:19
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1681481-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: RITC **Lab Number:** L2244532

Project Number: COALYARD CNCT. REUSE **Report Date:** 09/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/25/22 08:19
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1681481-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: RITC
Project Number: COALYARD CNCT. REUSE
Lab Number: L2244532
Report Date: 09/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/25/22 08:19
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1681481-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	108		70-130

Project Name: RITC
Project Number: COALYARD CNCT. REUSE
Lab Number: L2244532
Report Date: 09/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/31/22 04:27
Analyst: MM
TCLP/SPLP Extraction Date: 08/30/22 09:13

Extraction Date: 08/30/22 09:13

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1681876-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
dibromofluoromethane	105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RITC
Project Number: COALYARD CNCT. REUSE

Lab Number: L2244532
Report Date: 09/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1681481-3 WG1681481-4								
Methylene chloride	94		95		70-130	1		30
1,1-Dichloroethane	105		104		70-130	1		30
Chloroform	89		89		70-130	0		30
Carbon tetrachloride	81		79		70-130	3		30
1,2-Dichloropropane	95		98		70-130	3		30
Dibromochloromethane	83		86		70-130	4		30
1,1,2-Trichloroethane	82		86		70-130	5		30
Tetrachloroethene	97		96		70-130	1		30
Chlorobenzene	96		95		70-130	1		30
Trichlorofluoromethane	87		85		70-139	2		30
1,2-Dichloroethane	91		95		70-130	4		30
1,1,1-Trichloroethane	88		88		70-130	0		30
Bromodichloromethane	81		82		70-130	1		30
trans-1,3-Dichloropropene	83		86		70-130	4		30
cis-1,3-Dichloropropene	80		81		70-130	1		30
Bromoform	81		84		70-130	4		30
1,1,2,2-Tetrachloroethane	78		81		70-130	4		30
Benzene	89		89		70-130	0		30
Toluene	95		93		70-130	2		30
Ethylbenzene	98		97		70-130	1		30
Chloromethane	114		112		52-130	2		30
Bromomethane	124		120		57-147	3		30
Vinyl chloride	112		111		67-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: RITC
Project Number: COALYARD CNCT. REUSE

Lab Number: L2244532
Report Date: 09/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1681481-3 WG1681481-4								
Chloroethane	120		116		50-151	3		30
1,1-Dichloroethene	92		91		65-135	1		30
trans-1,2-Dichloroethene	90		92		70-130	2		30
Trichloroethene	93		94		70-130	1		30
1,2-Dichlorobenzene	98		95		70-130	3		30
1,3-Dichlorobenzene	100		97		70-130	3		30
1,4-Dichlorobenzene	96		95		70-130	1		30
Methyl tert butyl ether	66		69		66-130	4		30
p/m-Xylene	100		98		70-130	2		30
o-Xylene	98		97		70-130	1		30
cis-1,2-Dichloroethene	87		88		70-130	1		30
Styrene	97		98		70-130	1		30
Dichlorodifluoromethane	74		74		30-146	0		30
Acetone	85		110		54-140	26		30
Carbon disulfide	94		93		59-130	1		30
2-Butanone	73		84		70-130	14		30
4-Methyl-2-pentanone	85		96		70-130	12		30
2-Hexanone	78		92		70-130	16		30
Bromochloromethane	84		85		70-130	1		30
1,2-Dibromoethane	81		86		70-130	6		30
1,2-Dibromo-3-chloropropane	73		78		68-130	7		30
Isopropylbenzene	100		95		70-130	5		30
1,2,3-Trichlorobenzene	96		96		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: RITC
Project Number: COALYARD CNCT. REUSE

Lab Number: L2244532
Report Date: 09/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1681481-3 WG1681481-4								
1,2,4-Trichlorobenzene	100		98		70-130	2		30
Methyl Acetate	79		90		51-146	13		30
Cyclohexane	101		100		59-142	1		30
1,4-Dioxane	77		87		65-136	12		30
Freon-113	88		87		50-139	1		30
Methyl cyclohexane	79		78		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		101		70-130
Toluene-d8	104		101		70-130
4-Bromofluorobenzene	96		93		70-130
Dibromofluoromethane	91		92		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RITC

Project Number: COALYARD CNCT. REUSE

Lab Number: L2244532

Report Date: 09/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1681876-3 WG1681876-4								
Chloroform	100		98		70-130	2		20
Carbon tetrachloride	100		100		63-132	0		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	97		96		75-130	1		25
1,2-Dichloroethane	97		96		70-130	1		20
Benzene	94		93		70-130	1		25
Vinyl chloride	97		95		55-140	2		20
1,1-Dichloroethene	100		100		61-145	0		25
Trichloroethene	96		97		70-130	1		25
1,4-Dichlorobenzene	97		96		70-130	1		20
2-Butanone	90		97		63-138	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		100		70-130
Toluene-d8	105		105		70-130
4-Bromofluorobenzene	93		93		70-130
dibromofluoromethane	105		102		70-130

SEMIVOLATILES

Project Name: RITC
Lab Number: L2244532
Project Number: COALYARD CNCT. REUS
Report Date: 09/02/22

SAMPLE RESULTS

Lab ID: L2244532-01
Client ID: COALYARD-CONCRETE-08172022
Sample Location: TONAWANDA

Date Collected: 08/17/22 13:35
Date Received: 08/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8270D
Analytical Date: 08/31/22 11:27
Analyst: SLR
Percent Solids: 95%
TCLP/SPLP Ext. Date: 08/26/22 07:05

Extraction Method: EPA 3510C
Extraction Date: 08/30/22 23:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	62		33-120

Project Name: RITC **Lab Number:** L2244532

Project Number: COALYARD CNCT. REUS **Report Date:** 09/02/22

SAMPLE RESULTS

Lab ID: L2244532-01
Client ID: COALYARD-CONCRETE-08172022
Sample Location: TONAWANDA

Date Collected: 08/17/22 13:35
Date Received: 08/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8270D
Analytical Date: 09/01/22 01:08
Analyst: JG
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 08/29/22 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	140		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	170	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	30	J	ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	37.	1
Benzo(a)anthracene	59	J	ug/kg	100	20.	1
Benzo(a)pyrene	55	J	ug/kg	140	43.	1

Project Name: RITC **Lab Number:** L2244532

Project Number: COALYARD CNCT. REUS **Report Date:** 09/02/22

SAMPLE RESULTS

Lab ID: L2244532-01 Date Collected: 08/17/22 13:35

Client ID: COALYARD-CONCRETE-08172022 Date Received: 08/17/22

Sample Location: TONAWANDA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	78	J	ug/kg	100	29.	1
Benzo(k)fluoranthene	28	J	ug/kg	100	28.	1
Chrysene	71	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	37	J	ug/kg	140	20.	1
Fluorene	18	J	ug/kg	170	17.	1
Phenanthrene	160		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	40	J	ug/kg	140	24.	1
Pyrene	110		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	34.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	41	J	ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	47	J	ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Carbazole	20	J	ug/kg	170	17.	1
Atrazine	ND		ug/kg	140	61.	1
Benzaldehyde	ND		ug/kg	230	47.	1

Project Name: RITC **Lab Number:** L2244532

Project Number: COALYARD CNCT. REUS **Report Date:** 09/02/22

SAMPLE RESULTS

Lab ID: L2244532-01 Date Collected: 08/17/22 13:35

Client ID: COALYARD-CONCRETE-08172022 Date Received: 08/17/22

Sample Location: TONAWANDA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	170	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**14**	Q	25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	**6**	Q	10-136
4-Terphenyl-d14	76		18-120

Project Name: RITC
Project Number: COALYARD CNCT. REUSE

Lab Number: L2244532
Report Date: 09/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/31/22 22:47
Analyst: JG

Extraction Method: EPA 3540C
Extraction Date: 08/29/22 18:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1681024-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: RITC
Project Number: COALYARD CNCT. REUSE

Lab Number: L2244532
Report Date: 09/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/31/22 22:47
Analyst: JG

Extraction Method: EPA 3540C
Extraction Date: 08/29/22 18:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1681024-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	22.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: RITC
Project Number: COALYARD CNCT. REUSE

Lab Number: L2244532
Report Date: 09/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/31/22 22:47
Analyst: JG

Extraction Method: EPA 3540C
Extraction Date: 08/29/22 18:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1681024-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	77		18-120

Project Name: RITC
Project Number: COALYARD CNCT. REUSE

Lab Number: L2244532
Report Date: 09/02/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/31/22 10:15
Analyst: IM
TCLP/SPLP Extraction Date: 08/26/22 07:05

Extraction Method: EPA 3510C
Extraction Date: 08/30/22 23:04

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1681651-1					
Hexachlorobenzene	ND		ug/l	10	3.4
2,4-Dinitrotoluene	ND		ug/l	25	1.9
Hexachlorobutadiene	ND		ug/l	10	3.0
Hexachloroethane	ND		ug/l	10	2.2
Nitrobenzene	ND		ug/l	10	3.3
2,4,6-Trichlorophenol	ND		ug/l	25	2.5
Pentachlorophenol	ND		ug/l	50	9.8
2-Methylphenol	ND		ug/l	25	5.5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8
2,4,5-Trichlorophenol	ND		ug/l	25	1.9
Pyridine	ND		ug/l	18	4.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	107		21-120
Phenol-d6	94		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	113		15-120
2,4,6-Tribromophenol	**125**	Q	10-120
4-Terphenyl-d14	117		33-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: RITC
Project Number: COALYARD CNCT. REUSE

Lab Number: L2244532
Report Date: 09/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1681024-2 WG1681024-3								
Acenaphthene	76		70		31-137	8		50
Hexachlorobenzene	76		70		40-140	8		50
Bis(2-chloroethyl)ether	74		66		40-140	11		50
2-Chloronaphthalene	72		66		40-140	9		50
3,3'-Dichlorobenzidine	64		56		40-140	13		50
2,4-Dinitrotoluene	76		70		40-132	8		50
2,6-Dinitrotoluene	71		66		40-140	7		50
Fluoranthene	77		71		40-140	8		50
4-Chlorophenyl phenyl ether	73		68		40-140	7		50
4-Bromophenyl phenyl ether	75		70		40-140	7		50
Bis(2-chloroisopropyl)ether	74		68		40-140	8		50
Bis(2-chloroethoxy)methane	73		67		40-117	9		50
Hexachlorobutadiene	70		63		40-140	11		50
Hexachlorocyclopentadiene	53		47		40-140	12		50
Hexachloroethane	70		61		40-140	14		50
Isophorone	69		63		40-140	9		50
Naphthalene	74		67		40-140	10		50
Nitrobenzene	71		64		40-140	10		50
NDPA/DPA	75		70		36-157	7		50
n-Nitrosodi-n-propylamine	72		65		32-121	10		50
Bis(2-ethylhexyl)phthalate	76		70		40-140	8		50
Butyl benzyl phthalate	75		69		40-140	8		50
Di-n-butylphthalate	76		70		40-140	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RITC
Project Number: COALYARD CNCT. REUSE

Lab Number: L2244532
Report Date: 09/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1681024-2 WG1681024-3								
Di-n-octylphthalate	74		69		40-140	7		50
Diethyl phthalate	73		68		40-140	7		50
Dimethyl phthalate	68		64		40-140	6		50
Benzo(a)anthracene	76		69		40-140	10		50
Benzo(a)pyrene	81		75		40-140	8		50
Benzo(b)fluoranthene	80		77		40-140	4		50
Benzo(k)fluoranthene	81		71		40-140	13		50
Chrysene	76		71		40-140	7		50
Acenaphthylene	71		67		40-140	6		50
Anthracene	79		72		40-140	9		50
Benzo(ghi)perylene	80		74		40-140	8		50
Fluorene	75		70		40-140	7		50
Phenanthrene	77		71		40-140	8		50
Dibenzo(a,h)anthracene	79		73		40-140	8		50
Indeno(1,2,3-cd)pyrene	87		80		40-140	8		50
Pyrene	78		71		35-142	9		50
Biphenyl	71		64		37-127	10		50
4-Chloroaniline	60		54		40-140	11		50
2-Nitroaniline	71		66		47-134	7		50
3-Nitroaniline	68		56		26-129	19		50
4-Nitroaniline	77		71		41-125	8		50
Dibenzofuran	76		70		40-140	8		50
2-Methylnaphthalene	73		67		40-140	9		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RITC
Project Number: COALYARD CNCT. REUSE

Lab Number: L2244532
Report Date: 09/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1681024-2 WG1681024-3								
1,2,4,5-Tetrachlorobenzene	69		63		40-117	9		50
Acetophenone	68		63		14-144	8		50
2,4,6-Trichlorophenol	71		66		30-130	7		50
p-Chloro-m-cresol	75		70		26-103	7		50
2-Chlorophenol	74		67		25-102	10		50
2,4-Dichlorophenol	74		68		30-130	8		50
2,4-Dimethylphenol	72		66		30-130	9		50
2-Nitrophenol	70		64		30-130	9		50
4-Nitrophenol	79		76		11-114	4		50
2,4-Dinitrophenol	**0**	Q	**0**	Q	4-130	NC		50
4,6-Dinitro-o-cresol	10		13		10-130	26		50
Pentachlorophenol	28		30		17-109	7		50
Phenol	78		71		26-90	9		50
2-Methylphenol	75		68		30-130.	10		50
3-Methylphenol/4-Methylphenol	74		68		30-130	8		50
2,4,5-Trichlorophenol	73		68		30-130	7		50
Carbazole	79		72		54-128	9		50
Atrazine	66		62		40-140	6		50
Benzaldehyde	87		77		40-140	12		50
Caprolactam	73		69		15-130	6		50
2,3,4,6-Tetrachlorophenol	65		60		40-140	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RITC

Project Number: COALYARD CNCT. REUSE

Lab Number: L2244532

Report Date: 09/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1681024-2 WG1681024-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	80		71		25-120
Phenol-d6	80		73		10-120
Nitrobenzene-d5	74		68		23-120
2-Fluorobiphenyl	73		67		30-120
2,4,6-Tribromophenol	75		69		10-136
4-Terphenyl-d14	78		74		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: RITC
Project Number: COALYARD CNCT. REUSE

Lab Number: L2244532
Report Date: 09/02/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1681651-2 WG1681651-3								
Hexachlorobenzene	43		40		40-140	7		30
2,4-Dinitrotoluene	44		42		40-132	5		30
Hexachlorobutadiene	41		38		28-111	8		30
Hexachloroethane	38		35		21-105	8		30
Nitrobenzene	**38**	Q	**37**	Q	40-140	3		30
2,4,6-Trichlorophenol	44		41		30-130	7		30
Pentachlorophenol	40		37		9-103	8		30
2-Methylphenol	41		39		30-130	5		30
3-Methylphenol/4-Methylphenol	44		42		30-130	5		30
2,4,5-Trichlorophenol	45		41		30-130	9		30
Pyridine	34		22		10-66	**43**	Q	30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	42		41		21-120
Phenol-d6	38		37		10-120
Nitrobenzene-d5	40		37		23-120
2-Fluorobiphenyl	44		42		15-120
2,4,6-Tribromophenol	45		41		10-120
4-Terphenyl-d14	43		40		33-120

INORGANICS
&
MISCELLANEOUS

Project Name: RITC
Project Number: COALYARD CNCT. REUSE

Lab Number: L2244532
Report Date: 09/02/22

SAMPLE RESULTS

Lab ID: L2244532-01
Client ID: COALYARD-CONCRETE-08172022
Sample Location: TONAWANDA

Date Collected: 08/17/22 13:35
Date Received: 08/17/22
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.9		%	0.100	NA	1	-	08/19/22 12:50	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: RITC

Project Number: COALYARD CNCT. REUSE

Lab Number: L2244532

Report Date: 09/02/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1677361-1 QC Sample: L2244595-01 Client ID: DUP Sample						
Solids, Total	92.7	91.6	%	1		20

Project Name: RITC
Project Number: COALYARD CNCT. REUSE

Lab Number: L2244532
Report Date: 09/02/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2244532-01A	Vial Large Septa unpreserved (4oz)	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2244532-01B	Vial Large Septa unpreserved (4oz)	A	NA		3.4	Y	Absent		TCLP-EXT-ZHE(14)
L2244532-01C	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TS(7)
L2244532-01D	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TS(7)
L2244532-01E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TS(7)
L2244532-01F	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),TS(7)
L2244532-01U	Amber 1000ml unpreserved Extracts	A	NA		3.4	Y	Absent		TCLP-8270(14)
L2244532-01V	Vial unpreserved Extracts	A	NA		3.4	Y	Absent		TCLP-VOA(14)
L2244532-01W	Vial unpreserved Extracts	A	NA		3.4	Y	Absent		TCLP-VOA(14)
L2244532-01X	Vial MeOH preserved split	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2244532-01X9	Tumble Vessel	A	NA		3.4	Y	Absent		-
L2244532-01Y	Vial Water preserved split	A	NA		3.4	Y	Absent	**23-AUG-22 14:01**	NYTCL-8260-R2(14)
L2244532-01Z	Vial Water preserved split	A	NA		3.4	Y	Absent	**23-AUG-22 14:01**	NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	RITC	**Lab Number:**	L2244532
Project Number:	COALYARD CNCT. REUSE	**Report Date:**	09/02/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RITC	**Lab Number:**	L2244532
Project Number:	COALYARD CNCT. REUSE	**Report Date:**	09/02/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	RITC	**Lab Number:**	L2244532
Project Number:	COALYARD CNCT. REUSE	**Report Date:**	09/02/22

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	RITC	**Lab Number:**	L2244532
Project Number:	COALYARD CNCT. REUSE	**Report Date:**	09/02/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 8/18/22

ALPHA Job #: L2244532

Client Information

Client: INVENTUM ENGINEERING
Address: 441 CARLISLE DRIVE
HERNDON V.A.
Phone: 716 553-5729
Fax:
Email: Peter.Lasonde@inventumeng.com

Project Information

Project Name: RETC
Project Location: Tonawanda
Project #: Coal Yard Concrete Reuse.
(Use Project name as Project #) ☐
Project Manager: JOHN BLACK
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

TCLP 8260/8270 | TCL 8260/8270

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCLP 8260/8270	TCL 8260/8270	Sample Specific Comments
44532-01	CoalYard-Concrete-08172022	8/17/22	1335	SOIL	DB	X	X	Extra Volume Provided.

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A											
Preservative	A	A											

Relinquished By:	Date/Time	Received By:	Date/Time
	8/17/2022 1600		8/17/22 1600
	8/17/22 1600		8/18/22 0020

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2251635
Client:	Inventum Engineering 441 Carlisle Drive Suite C Herndon, NY 20170
ATTN:	John Black
Phone:	(571) 752-6562
Project Name:	RITC
Project Number:	CONCRETE STACK
Report Date:	09/26/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Project Name: RITC
Project Number: CONCRETE STACK

Lab Number: L2251635
Report Date: 09/26/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2251635-01	STACK -CONCRETE-09202022	SOLID	3875 RIVER ROAD, TONAWANDA	09/20/22 14:00	09/20/22

Project Name:	RITC	**Lab Number:**	L2251635
Project Number:	CONCRETE STACK	**Report Date:**	09/26/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	RITC	**Lab Number:**	L2251635
Project Number:	CONCRETE STACK	**Report Date:**	09/26/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2251635-01: Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

L2251635-01: The surrogate recovery is below the acceptance criteria for dibromofluoromethane (51%), possibly due to the matrix effect caused by the high pH of the sample (>10).

Semivolatile Organics

The WG1690669-2 LCS recovery, associated with L2251635-01, is below the acceptance criteria for benzoic acid (8%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 09/26/22

ORGANICS

VOLATILES

Project Name: RITC **Lab Number:** L2251635

Project Number: CONCRETE STACK **Report Date:** 09/26/22

SAMPLE RESULTS

Lab ID: L2251635-01
Client ID: STACK -CONCRETE-09202022
Sample Location: 3875 RIVER ROAD, TONAWANDA

Date Collected: 09/20/22 14:00
Date Received: 09/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8260C
Analytical Date: 09/23/22 07:23
Analyst: MM
Percent Solids: 95%
TCLP/SPLP Ext. Date: 09/21/22 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
dibromofluoromethane	113		70-130

Project Name: RITC **Lab Number:** L2251635

Project Number: CONCRETE STACK **Report Date:** 09/26/22

SAMPLE RESULTS

Lab ID: L2251635-01
Client ID: STACK -CONCRETE-09202022
Sample Location: 3875 RIVER ROAD, TONAWANDA

Date Collected: 09/20/22 14:00
Date Received: 09/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8260C
Analytical Date: 09/22/22 19:40
Analyst: JC
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	5.0		ug/kg	0.51	0.17	1
Toluene	2.4		ug/kg	1.0	0.55	1
Ethylbenzene	0.31	J	ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.95	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.51	0.14	1

Project Name: RITC **Lab Number:** L2251635

Project Number: CONCRETE STACK **Report Date:** 09/26/22

SAMPLE RESULTS

Lab ID: L2251635-01 Date Collected: 09/20/22 14:00

Client ID: STACK -CONCRETE-09202022 Date Received: 09/20/22

Sample Location: 3875 RIVER ROAD, TONAWANDA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	1.4	J	ug/kg	2.0	0.57	1
o-Xylene	0.90	J	ug/kg	1.0	0.30	1
Xylenes, Total	2.3	J	ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	28		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	3.2	J	ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	37		ug/kg	4.1	0.66	1
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	0.38	J	ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	1.1	J	ug/kg	2.0	0.34	1
Methyl Acetate	ND		ug/kg	4.1	0.97	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	82	36.	1
Freon-113	ND		ug/kg	4.1	0.71	1
Methyl cyclohexane	0.75	J	ug/kg	4.1	0.61	1

Project Name: RITC **Lab Number:** L2251635

Project Number: CONCRETE STACK **Report Date:** 09/26/22

SAMPLE RESULTS

Lab ID: L2251635-01 Date Collected: 09/20/22 14:00

Client ID: STACK -CONCRETE-09202022 Date Received: 09/20/22

Sample Location: 3875 RIVER ROAD, TONAWANDA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	**51**	Q	70-130

Project Name: RITC
Project Number: CONCRETE STACK

Lab Number: L2251635
Report Date: 09/26/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/23/22 07:01
Analyst: MM
TCLP/SPLP Extraction Date: 09/21/22 14:03

Extraction Date: 09/21/22 14:03

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1691200-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
dibromofluoromethane	113		70-130

Project Name: RITC **Lab Number:** L2251635

Project Number: CONCRETE STACK **Report Date:** 09/26/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/22/22 19:20
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1691230-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.72	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	1.9	J	ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14

Project Name: RITC
Project Number: CONCRETE STACK
Lab Number: L2251635
Report Date: 09/26/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/22/22 19:20
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1691230-5					
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Styrene	0.34	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Project Name: RITC
Project Number: CONCRETE STACK
Lab Number: L2251635
Report Date: 09/26/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/22/22 19:20
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1691230-5					
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	110		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RITC
Project Number: CONCRETE STACK

Lab Number: L2251635
Report Date: 09/26/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1691200-3 WG1691200-4								
Chloroform	100		99		70-130	1		20
Carbon tetrachloride	100		110		63-132	10		20
Tetrachloroethene	100		97		70-130	3		20
Chlorobenzene	99		94		75-130	5		25
1,2-Dichloroethane	93		91		70-130	2		20
Benzene	99		94		70-130	5		25
Vinyl chloride	95		89		55-140	7		20
1,1-Dichloroethene	100		99		61-145	1		25
Trichloroethene	100		97		70-130	3		25
1,4-Dichlorobenzene	97		92		70-130	5		20
2-Butanone	72		75		63-138	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		99		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	94		94		70-130
dibromofluoromethane	103		103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RITC
Project Number: CONCRETE STACK

Lab Number: L2251635
Report Date: 09/26/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1691230-3 WG1691230-4								
Methylene chloride	98		97		70-130	1		30
1,1-Dichloroethane	102		103		70-130	1		30
Chloroform	104		107		70-130	3		30
Carbon tetrachloride	110		111		70-130	1		30
1,2-Dichloropropane	101		101		70-130	0		30
Dibromochloromethane	112		112		70-130	0		30
1,1,2-Trichloroethane	104		105		70-130	1		30
Tetrachloroethene	104		104		70-130	0		30
Chlorobenzene	109		108		70-130	1		30
Trichlorofluoromethane	115		117		70-139	2		30
1,2-Dichloroethane	116		118		70-130	2		30
1,1,1-Trichloroethane	111		113		70-130	2		30
Bromodichloromethane	105		107		70-130	2		30
trans-1,3-Dichloropropene	113		112		70-130	1		30
cis-1,3-Dichloropropene	112		113		70-130	1		30
Bromoform	105		106		70-130	1		30
1,1,2,2-Tetrachloroethane	102		104		70-130	2		30
Benzene	103		104		70-130	1		30
Toluene	102		102		70-130	0		30
Ethylbenzene	106		105		70-130	1		30
Chloromethane	83		86		52-130	4		30
Bromomethane	120		118		57-147	2		30
Vinyl chloride	96		97		67-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: RITC
Project Number: CONCRETE STACK

Lab Number: L2251635
Report Date: 09/26/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1691230-3 WG1691230-4								
Chloroethane	92		94		50-151	2		30
1,1-Dichloroethene	104		107		65-135	3		30
trans-1,2-Dichloroethene	100		97		70-130	3		30
Trichloroethene	101		102		70-130	1		30
1,2-Dichlorobenzene	107		108		70-130	1		30
1,3-Dichlorobenzene	106		106		70-130	0		30
1,4-Dichlorobenzene	107		107		70-130	0		30
Methyl tert butyl ether	111		111		66-130	0		30
p/m-Xylene	108		108		70-130	0		30
o-Xylene	109		109		70-130	0		30
cis-1,2-Dichloroethene	98		100		70-130	2		30
Styrene	110		110		70-130	0		30
Dichlorodifluoromethane	103		107		30-146	4		30
Acetone	100		93		54-140	7		30
Carbon disulfide	103		106		59-130	3		30
2-Butanone	103		96		70-130	7		30
4-Methyl-2-pentanone	106		104		70-130	2		30
2-Hexanone	106		103		70-130	3		30
Bromochloromethane	101		102		70-130	1		30
1,2-Dibromoethane	112		111		70-130	1		30
n-Butylbenzene	108		110		70-130	2		30
sec-Butylbenzene	104		104		70-130	0		30
tert-Butylbenzene	102		104		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: RITC
Project Number: CONCRETE STACK

Lab Number: L2251635
Report Date: 09/26/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1691230-3 WG1691230-4								
1,2-Dibromo-3-chloropropane	100		100		68-130	0		30
Isopropylbenzene	104		104		70-130	0		30
p-Isopropyltoluene	105		106		70-130	1		30
Naphthalene	105		106		70-130	1		30
n-Propylbenzene	106		107		70-130	1		30
1,2,3-Trichlorobenzene	105		107		70-130	2		30
1,2,4-Trichlorobenzene	106		107		70-130	1		30
1,3,5-Trimethylbenzene	106		107		70-130	1		30
1,2,4-Trimethylbenzene	108		107		70-130	1		30
Methyl Acetate	94		90		51-146	4		30
Cyclohexane	94		95		59-142	1		30
1,4-Dioxane	100		88		65-136	13		30
Freon-113	111		113		50-139	2		30
Methyl cyclohexane	100		102		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		110		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	99		101		70-130
Dibromofluoromethane	102		101		70-130

SEMIVOLATILES

Project Name: RITC
Project Number: CONCRETE STACK
Lab Number: L2251635
Report Date: 09/26/22

SAMPLE RESULTS

Lab ID: L2251635-01
Client ID: STACK -CONCRETE-09202022
Sample Location: 3875 RIVER ROAD, TONAWANDA

Date Collected: 09/20/22 14:00
Date Received: 09/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8270D
Analytical Date: 09/24/22 14:36
Analyst: CMM
Percent Solids: 95%
TCLP/SPLP Ext. Date: 09/22/22 02:05

Extraction Method: EPA 3510C
Extraction Date: 09/23/22 09:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	25		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	88		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		21-120
Phenol-d6	74		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	106		10-120
4-Terphenyl-d14	85		33-120

Project Name: RITC **Lab Number:** L2251635

Project Number: CONCRETE STACK **Report Date:** 09/26/22

SAMPLE RESULTS

Lab ID: L2251635-01
Client ID: STACK -CONCRETE-09202022
Sample Location: 3875 RIVER ROAD, TONAWANDA

Date Collected: 09/20/22 14:00
Date Received: 09/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8270D
Analytical Date: 09/23/22 15:27
Analyst: WR
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 09/22/22 09:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	21	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	730		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	1100		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: RITC **Lab Number:** L2251635

Project Number: CONCRETE STACK **Report Date:** 09/26/22

SAMPLE RESULTS

Lab ID: L2251635-01 Date Collected: 09/20/22 14:00

Client ID: STACK -CONCRETE-09202022 Date Received: 09/20/22

Sample Location: 3875 RIVER ROAD, TONAWANDA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	270		ug/kg	100	20.	1
Benzo(a)pyrene	250		ug/kg	140	43.	1
Benzo(b)fluoranthene	340		ug/kg	100	30.	1
Benzo(k)fluoranthene	95	J	ug/kg	100	28.	1
Chrysene	280		ug/kg	100	18.	1
Acenaphthylene	180		ug/kg	140	27.	1
Anthracene	110		ug/kg	100	34.	1
Benzo(ghi)perylene	180		ug/kg	140	21.	1
Fluorene	89	J	ug/kg	180	17.	1
Phenanthrene	560		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	40	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	210		ug/kg	140	24.	1
Pyrene	550		ug/kg	100	17.	1
Biphenyl	31	J	ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	91	J	ug/kg	180	17.	1
2-Methylnaphthalene	140	J	ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	4400		ug/kg	180	26.	1
2-Methylphenol	600		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	2100		ug/kg	250	28.	1

Project Name: RITC **Lab Number:** L2251635

Project Number: CONCRETE STACK **Report Date:** 09/26/22

SAMPLE RESULTS

Lab ID: L2251635-01 Date Collected: 09/20/22 14:00

Client ID: STACK -CONCRETE-09202022 Date Received: 09/20/22

Sample Location: 3875 RIVER ROAD, TONAWANDA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	96	J	ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	61		10-136
4-Terphenyl-d14	89		18-120

Project Name: RITC
Project Number: CONCRETE STACK

Lab Number: L2251635
Report Date: 09/26/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/23/22 14:20
Analyst: WR

Extraction Method: EPA 3540C
Extraction Date: 09/22/22 09:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1690669-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: RITC
Project Number: CONCRETE STACK

Lab Number: L2251635
Report Date: 09/26/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/23/22 14:20
Analyst: WR

Extraction Method: EPA 3540C
Extraction Date: 09/22/22 09:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1690669-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	22.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: RITC
Project Number: CONCRETE STACK

Lab Number: L2251635
Report Date: 09/26/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/23/22 14:20
Analyst: WR

Extraction Method: EPA 3540C
Extraction Date: 09/22/22 09:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1690669-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	82		18-120

Project Name: RITC
Project Number: CONCRETE STACK
Lab Number: L2251635
Report Date: 09/26/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/24/22 12:12
Analyst: CMM
TCLP/SPLP Extraction Date: 09/22/22 02:05

Extraction Method: EPA 3510C
Extraction Date: 09/23/22 09:14

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1691195-1					
Hexachlorobenzene	ND		ug/l	10	3.4
2,4-Dinitrotoluene	ND		ug/l	25	1.9
Hexachlorobutadiene	ND		ug/l	10	3.0
Hexachloroethane	ND		ug/l	10	2.2
Nitrobenzene	ND		ug/l	10	3.3
2,4,6-Trichlorophenol	ND		ug/l	25	2.5
Pentachlorophenol	ND		ug/l	50	9.8
2-Methylphenol	ND		ug/l	25	5.5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8
2,4,5-Trichlorophenol	ND		ug/l	25	1.9
Pyridine	ND		ug/l	18	4.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		21-120
Phenol-d6	74		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	113		10-120
4-Terphenyl-d14	89		33-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: RITC
Project Number: CONCRETE STACK

Lab Number: L2251635
Report Date: 09/26/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1690669-2 WG1690669-3								
Acenaphthene	78		80		31-137	3		50
1,2,4-Trichlorobenzene	70		73		38-107	4		50
Hexachlorobenzene	72		73		40-140	1		50
Bis(2-chloroethyl)ether	75		76		40-140	1		50
2-Chloronaphthalene	70		72		40-140	3		50
1,2-Dichlorobenzene	71		72		40-140	1		50
1,3-Dichlorobenzene	70		75		40-140	7		50
1,4-Dichlorobenzene	71		72		28-104	1		50
3,3'-Dichlorobenzidine	70		67		40-140	4		50
2,4-Dinitrotoluene	86		89		40-132	3		50
2,6-Dinitrotoluene	78		76		40-140	3		50
Fluoranthene	76		76		40-140	0		50
4-Chlorophenyl phenyl ether	76		81		40-140	6		50
4-Bromophenyl phenyl ether	75		77		40-140	3		50
Bis(2-chloroisopropyl)ether	80		83		40-140	4		50
Bis(2-chloroethoxy)methane	74		76		40-117	3		50
Hexachlorobutadiene	70		72		40-140	3		50
Hexachlorocyclopentadiene	63		69		40-140	9		50
Hexachloroethane	66		68		40-140	3		50
Isophorone	69		70		40-140	1		50
Naphthalene	73		74		40-140	1		50
Nitrobenzene	73		77		40-140	5		50
NDPA/DPA	76		80		36-157	5		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RITC
Project Number: CONCRETE STACK

Lab Number: L2251635
Report Date: 09/26/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1690669-2 WG1690669-3								
n-Nitrosodi-n-propylamine	70		72		32-121	3		50
Bis(2-ethylhexyl)phthalate	80		82		40-140	2		50
Butyl benzyl phthalate	78		77		40-140	1		50
Di-n-butylphthalate	76		75		40-140	1		50
Di-n-octylphthalate	82		82		40-140	0		50
Diethyl phthalate	73		77		40-140	5		50
Dimethyl phthalate	70		71		40-140	1		50
Benzo(a)anthracene	77		79		40-140	3		50
Benzo(a)pyrene	89		87		40-140	2		50
Benzo(b)fluoranthene	76		78		40-140	3		50
Benzo(k)fluoranthene	86		84		40-140	2		50
Chrysene	79		80		40-140	1		50
Acenaphthylene	73		73		40-140	0		50
Anthracene	77		78		40-140	1		50
Benzo(ghi)perylene	75		76		40-140	1		50
Fluorene	75		76		40-140	1		50
Phenanthrene	74		75		40-140	1		50
Dibenzo(a,h)anthracene	76		76		40-140	0		50
Indeno(1,2,3-cd)pyrene	80		79		40-140	1		50
Pyrene	75		75		35-142	0		50
Biphenyl	71		72		37-127	1		50
4-Chloroaniline	72		67		40-140	7		50
2-Nitroaniline	78		79		47-134	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RITC
Project Number: CONCRETE STACK

Lab Number: L2251635
Report Date: 09/26/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1690669-2 WG1690669-3								
3-Nitroaniline	75		72		26-129	4		50
4-Nitroaniline	80		84		41-125	5		50
Dibenzofuran	77		80		40-140	4		50
2-Methylnaphthalene	72		74		40-140	3		50
1,2,4,5-Tetrachlorobenzene	69		69		40-117	0		50
Acetophenone	70		75		14-144	7		50
2,4,6-Trichlorophenol	78		77		30-130	1		50
p-Chloro-m-cresol	77		77		26-103	0		50
2-Chlorophenol	75		78		25-102	4		50
2,4-Dichlorophenol	76		75		30-130	1		50
2,4-Dimethylphenol	72		74		30-130	3		50
2-Nitrophenol	82		84		30-130	2		50
4-Nitrophenol	87		93		11-114	7		50
2,4-Dinitrophenol	45		58		4-130	25		50
4,6-Dinitro-o-cresol	83		80		10-130	4		50
Pentachlorophenol	76		77		17-109	1		50
Phenol	77		78		26-90	1		50
2-Methylphenol	74		79		30-130.	7		50
3-Methylphenol/4-Methylphenol	82		85		30-130	4		50
2,4,5-Trichlorophenol	76		77		30-130	1		50
Benzoic Acid	**8**	Q	46		10-110	**143**	Q	50
Benzyl Alcohol	76		77		40-140	1		50
Carbazole	76		77		54-128	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RITC
Project Number: CONCRETE STACK

Lab Number: L2251635
Report Date: 09/26/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1690669-2 WG1690669-3								
1,4-Dioxane	57		62		40-140	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	81		83		25-120
Phenol-d6	82		83		10-120
Nitrobenzene-d5	84		82		23-120
2-Fluorobiphenyl	77		75		30-120
2,4,6-Tribromophenol	80		83		10-136
4-Terphenyl-d14	81		83		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: RITC
Project Number: CONCRETE STACK

Lab Number: L2251635
Report Date: 09/26/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1691195-2 WG1691195-3								
Hexachlorobenzene	65		62		40-140	5		30
2,4-Dinitrotoluene	76		74		40-132	3		30
Hexachlorobutadiene	65		60		28-111	8		30
Hexachloroethane	56		52		21-105	7		30
Nitrobenzene	68		65		40-140	5		30
2,4,6-Trichlorophenol	78		77		30-130	1		30
Pentachlorophenol	76		72		9-103	5		30
2-Methylphenol	62		60		30-130	3		30
3-Methylphenol/4-Methylphenol	63		64		30-130	2		30
2,4,5-Trichlorophenol	83		82		30-130	1		30
Pyridine	18		28		10-66	**43**	Q	30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	63		64		21-120
Phenol-d6	57		60		10-120
Nitrobenzene-d5	76		71		23-120
2-Fluorobiphenyl	67		64		15-120
2,4,6-Tribromophenol	83		79		10-120
4-Terphenyl-d14	66		64		33-120

INORGANICS
&
MISCELLANEOUS

Project Name: RITC
Project Number: CONCRETE STACK

Lab Number: L2251635
Report Date: 09/26/22

SAMPLE RESULTS

Lab ID: L2251635-01
Client ID: STACK -CONCRETE-09202022
Sample Location: 3875 RIVER ROAD, TONAWANDA

Date Collected: 09/20/22 14:00
Date Received: 09/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.7		%	0.100	NA	1	-	09/22/22 08:58	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: RITC

Project Number: CONCRETE STACK

Lab Number: L2251635

Report Date: 09/26/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1690568-1 QC Sample: L2249168-44 Client ID: DUP Sample						
Solids, Total	83.1	82.1	%	1		20

Project Name: RITC
Project Number: CONCRETE STACK

Lab Number: L2251635
Report Date: 09/26/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2251635-01A	Vial Large Septa unpreserved (4oz)	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L2251635-01B	Vial Large Septa unpreserved (4oz)	A	NA		4.4	Y	Absent		TCLP-EXT-ZHE(14)
L2251635-01C	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		NYTCL-8270(14),TS(7)
L2251635-01D	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		NYTCL-8270(14),TS(7)
L2251635-01S	Vial MeOH preserved split	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L2251635-01T	Vial Water preserved split	A	NA		4.4	Y	Absent	22-SEP-22 05:46	NYTCL-8260-R2(14)
L2251635-01U	Vial Water preserved split	A	NA		4.4	Y	Absent	22-SEP-22 05:46	NYTCL-8260-R2(14)
L2251635-01X	Amber 1000ml unpreserved Extracts	A	NA		4.4	Y	Absent		TCLP-8270(14)
L2251635-01X9	Tumble Vessel	A	NA		4.4	Y	Absent		-
L2251635-01Y	Vial unpreserved Extracts	A	NA		4.4	Y	Absent		TCLP-VOA(14)
L2251635-01Z	Vial unpreserved Extracts	A	NA		4.4	Y	Absent		TCLP-VOA(14)

*Values in parentheses indicate holding time in days

Project Name:	RITC	**Lab Number:**	L2251635
Project Number:	CONCRETE STACK	**Report Date:**	09/26/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RITC	**Lab Number:**	L2251635
Project Number:	CONCRETE STACK	**Report Date:**	09/26/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	RITC	**Lab Number:**	L2251635
Project Number:	CONCRETE STACK	**Report Date:**	09/26/22

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	RITC	**Lab Number:**	L2251635
Project Number:	CONCRETE STACK	**Report Date:**	09/26/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 9/21/22

ALPHA Job #: L2251635

Project Information
Project Name: RITC
Project Location: 3875 RIVER ROAD, TONAWANDA
Project #: CONCRETE STACK
(Use Project name as Project #) ☐
Project Manager: JOHN BLACK
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 3

Client Information
Client: INVENTUM ENG
Address: 441 CARLISLE DR
HERNDON, VA. 20170
Phone: 585-734-5255
Fax: john.black@inventumeng.com
Email: roxanne.bix@u u

Deliverables
☐ ASP-A ☐ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

3 DAY RUSH APPROVAL FROM C. Fox

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs	TCL SVOCs	TCLP VOCs	TCLP SVOCs	Sample Specific Comments	Total Bottle
51635 -01	STACK-CONCRETE-09202022	9/20/22	1400	SOLID	RB	✓	✓	✓	✓		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	9/20/22 16:20	[signature] MYC	9/20/22 1620
[signature]	9/20/22 16:20	[signature]	9/21/22 0100

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

Inventum Engineering, P.C.

For Lab Project ID

221212

Referencing

Battery Brick

Prepared

Wednesday, March 30, 2022

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221212

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier:	Brick-Multi-03222022		
Lab Sample ID:	221212-01	**Date Sampled:**	3/22/2022 15:00
Matrix:	Solid	**Date Received**	3/23/2022

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 284	ug/Kg		3/25/2022 22:57
1,2,4,5-Tetrachlorobenzene	< 284	ug/Kg		3/25/2022 22:57
1,2,4-Trichlorobenzene	< 284	ug/Kg		3/25/2022 22:57
1,2-Dichlorobenzene	< 284	ug/Kg		3/25/2022 22:57
1,3-Dichlorobenzene	< 284	ug/Kg		3/25/2022 22:57
1,4-Dichlorobenzene	< 284	ug/Kg		3/25/2022 22:57
2,2-Oxybis (1-chloropropane)	< 284	ug/Kg		3/25/2022 22:57
2,3,4,6-Tetrachlorophenol	< 284	ug/Kg		3/25/2022 22:57
2,4,5-Trichlorophenol	< 284	ug/Kg		3/25/2022 22:57
2,4,6-Trichlorophenol	< 284	ug/Kg		3/25/2022 22:57
2,4-Dichlorophenol	< 284	ug/Kg		3/25/2022 22:57
2,4-Dimethylphenol	< 284	ug/Kg		3/25/2022 22:57
2,4-Dinitrophenol	< 1140	ug/Kg		3/25/2022 22:57
2,4-Dinitrotoluene	< 284	ug/Kg		3/25/2022 22:57
2,6-Dinitrotoluene	< 284	ug/Kg		3/25/2022 22:57
2-Chloronaphthalene	< 284	ug/Kg		3/25/2022 22:57
2-Chlorophenol	< 284	ug/Kg		3/25/2022 22:57
2-Methylnapthalene	< 284	ug/Kg		3/25/2022 22:57
2-Methylphenol	< 284	ug/Kg		3/25/2022 22:57
2-Nitroaniline	< 284	ug/Kg		3/25/2022 22:57
2-Nitrophenol	< 284	ug/Kg		3/25/2022 22:57
3&4-Methylphenol	< 284	ug/Kg		3/25/2022 22:57
3,3'-Dichlorobenzidine	< 284	ug/Kg		3/25/2022 22:57
3-Nitroaniline	< 284	ug/Kg		3/25/2022 22:57
4,6-Dinitro-2-methylphenol	< 380	ug/Kg		3/25/2022 22:57
4-Bromophenyl phenyl ether	< 284	ug/Kg		3/25/2022 22:57
4-Chloro-3-methylphenol	< 284	ug/Kg		3/25/2022 22:57
4-Chloroaniline	< 284	ug/Kg		3/25/2022 22:57

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221212

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier: Brick-Multi-03222022
Lab Sample ID: 221212-01 **Date Sampled:** 3/22/2022 15:00
Matrix: Solid **Date Received** 3/23/2022

4-Chlorophenyl phenyl ether	< 284	ug/Kg	3/25/2022 22:57
4-Nitroaniline	< 284	ug/Kg	3/25/2022 22:57
4-Nitrophenol	< 284	ug/Kg	3/25/2022 22:57
Acenaphthene	< 284	ug/Kg	3/25/2022 22:57
Acenaphthylene	< 284	ug/Kg	3/25/2022 22:57
Acetophenone	< 284	ug/Kg	3/25/2022 22:57
Anthracene	< 284	ug/Kg	3/25/2022 22:57
Atrazine	< 284	ug/Kg	3/25/2022 22:57
Benzaldehyde	< 284	ug/Kg	3/25/2022 22:57
Benzo (a) anthracene	< 284	ug/Kg	3/25/2022 22:57
Benzo (a) pyrene	< 284	ug/Kg	3/25/2022 22:57
Benzo (b) fluoranthene	< 284	ug/Kg	3/25/2022 22:57
Benzo (g,h,i) perylene	< 284	ug/Kg	3/25/2022 22:57
Benzo (k) fluoranthene	< 284	ug/Kg	3/25/2022 22:57
Bis (2-chloroethoxy) methane	< 284	ug/Kg	3/25/2022 22:57
Bis (2-chloroethyl) ether	< 284	ug/Kg	3/25/2022 22:57
Bis (2-ethylhexyl) phthalate	< 284	ug/Kg	3/25/2022 22:57
Butylbenzylphthalate	< 284	ug/Kg	3/25/2022 22:57
Caprolactam	< 284	ug/Kg	3/25/2022 22:57
Carbazole	< 284	ug/Kg	3/25/2022 22:57
Chrysene	< 284	ug/Kg	3/25/2022 22:57
Dibenz (a,h) anthracene	< 284	ug/Kg	3/25/2022 22:57
Dibenzofuran	< 284	ug/Kg	3/25/2022 22:57
Diethyl phthalate	< 284	ug/Kg	3/25/2022 22:57
Dimethyl phthalate	< 284	ug/Kg	3/25/2022 22:57
Di-n-butyl phthalate	< 284	ug/Kg	3/25/2022 22:57
Di-n-octylphthalate	< 284	ug/Kg	3/25/2022 22:57
Fluoranthene	< 284	ug/Kg	3/25/2022 22:57
Fluorene	< 284	ug/Kg	3/25/2022 22:57
Hexachlorobenzene	< 284	ug/Kg	3/25/2022 22:57

Sample Identifier: Brick-Multi-03222022
Lab Sample ID: 221212-01 **Date Sampled:** 3/22/2022 15:00
Matrix: Solid **Date Received** 3/23/2022

Hexachlorobutadiene	< 284	ug/Kg		3/25/2022 22:57
Hexachlorocyclopentadiene	< 1140	ug/Kg		3/25/2022 22:57
Hexachloroethane	< 284	ug/Kg		3/25/2022 22:57
Indeno (1,2,3-cd) pyrene	< 284	ug/Kg		3/25/2022 22:57
Isophorone	< 284	ug/Kg		3/25/2022 22:57
Naphthalene	< 284	ug/Kg		3/25/2022 22:57
Nitrobenzene	< 284	ug/Kg		3/25/2022 22:57
N-Nitroso-di-n-propylamine	< 284	ug/Kg		3/25/2022 22:57
N-Nitrosodiphenylamine	< 284	ug/Kg		3/25/2022 22:57
Pentachlorophenol	< 568	ug/Kg		3/25/2022 22:57
Phenanthrene	< 284	ug/Kg		3/25/2022 22:57
Phenol	< 284	ug/Kg		3/25/2022 22:57
Pyrene	< 284	ug/Kg		3/25/2022 22:57

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**62.8**	35.4 - 92.4		3/25/2022 22:57
2-Fluorobiphenyl	**62.2**	39.6 - 84.4		3/25/2022 22:57
2-Fluorophenol	**50.3**	35.5 - 78.9		3/25/2022 22:57
Nitrobenzene-d5	**50.7**	36.5 - 78.2		3/25/2022 22:57
Phenol-d5	**55.1**	37.1 - 78.3		3/25/2022 22:57
Terphenyl-d14	**71.0**	42.3 - 103		3/25/2022 22:57

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 3/24/2022
Data File: B60684.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.33	ug/Kg		3/29/2022 16:57
1,1,2,2-Tetrachloroethane	< 8.33	ug/Kg		3/29/2022 16:57
1,1,2-Trichloroethane	< 8.33	ug/Kg		3/29/2022 16:57
1,1-Dichloroethane	< 8.33	ug/Kg		3/29/2022 16:57

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221212

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier: Brick-Multi-03222022
Lab Sample ID: 221212-01 **Date Sampled:** 3/22/2022 15:00
Matrix: Solid **Date Received** 3/23/2022

1,1-Dichloroethene	< 8.33	ug/Kg	3/29/2022	16:57
1,2,3-Trichlorobenzene	< 20.8	ug/Kg	3/29/2022	16:57
1,2,4-Trichlorobenzene	< 20.8	ug/Kg	3/29/2022	16:57
1,2-Dibromo-3-Chloropropane	< 41.7	ug/Kg	3/29/2022	16:57
1,2-Dibromoethane	< 8.33	ug/Kg	3/29/2022	16:57
1,2-Dichlorobenzene	< 8.33	ug/Kg	3/29/2022	16:57
1,2-Dichloroethane	< 8.33	ug/Kg	3/29/2022	16:57
1,2-Dichloropropane	< 8.33	ug/Kg	3/29/2022	16:57
1,3-Dichlorobenzene	< 8.33	ug/Kg	3/29/2022	16:57
1,4-Dichlorobenzene	< 8.33	ug/Kg	3/29/2022	16:57
1,4-Dioxane	< 41.7	ug/Kg	3/29/2022	16:57
2-Butanone	< 41.7	ug/Kg	3/29/2022	16:57
2-Hexanone	< 20.8	ug/Kg	3/29/2022	16:57
4-Methyl-2-pentanone	< 20.8	ug/Kg	3/29/2022	16:57
Acetone	< 41.7	ug/Kg	3/29/2022	16:57
Benzene	< 8.33	ug/Kg	3/29/2022	16:57
Bromochloromethane	< 20.8	ug/Kg	3/29/2022	16:57
Bromodichloromethane	< 8.33	ug/Kg	3/29/2022	16:57
Bromoform	< 20.8	ug/Kg	3/29/2022	16:57
Bromomethane	< 8.33	ug/Kg	3/29/2022	16:57
Carbon disulfide	< 8.33	ug/Kg	3/29/2022	16:57
Carbon Tetrachloride	< 8.33	ug/Kg	3/29/2022	16:57
Chlorobenzene	< 8.33	ug/Kg	3/29/2022	16:57
Chloroethane	< 8.33	ug/Kg	3/29/2022	16:57
Chloroform	< 8.33	ug/Kg	3/29/2022	16:57
Chloromethane	< 8.33	ug/Kg	3/29/2022	16:57
cis-1,2-Dichloroethene	< 8.33	ug/Kg	3/29/2022	16:57
cis-1,3-Dichloropropene	< 8.33	ug/Kg	3/29/2022	16:57
Cyclohexane	< 41.7	ug/Kg	3/29/2022	16:57
Dibromochloromethane	< 8.33	ug/Kg	3/29/2022	16:57

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221212

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier: Brick-Multi-03222022
Lab Sample ID: 221212-01 **Date Sampled:** 3/22/2022 15:00
Matrix: Solid **Date Received** 3/23/2022

Dichlorodifluoromethane	< 8.33	ug/Kg	3/29/2022	16:57
Ethylbenzene	< 8.33	ug/Kg	3/29/2022	16:57
Freon 113	< 8.33	ug/Kg	3/29/2022	16:57
Isopropylbenzene	< 8.33	ug/Kg	3/29/2022	16:57
m,p-Xylene	< 8.33	ug/Kg	3/29/2022	16:57
Methyl acetate	< 8.33	ug/Kg	3/29/2022	16:57
Methyl tert-butyl Ether	< 8.33	ug/Kg	3/29/2022	16:57
Methylcyclohexane	< 8.33	ug/Kg	3/29/2022	16:57
Methylene chloride	< 20.8	ug/Kg	3/29/2022	16:57
o-Xylene	< 8.33	ug/Kg	3/29/2022	16:57
Styrene	< 20.8	ug/Kg	3/29/2022	16:57
Tetrachloroethene	< 8.33	ug/Kg	3/29/2022	16:57
Toluene	< 8.33	ug/Kg	3/29/2022	16:57
trans-1,2-Dichloroethene	< 8.33	ug/Kg	3/29/2022	16:57
trans-1,3-Dichloropropene	< 8.33	ug/Kg	3/29/2022	16:57
Trichloroethene	< 8.33	ug/Kg	3/29/2022	16:57
Trichlorofluoromethane	< 8.33	ug/Kg	3/29/2022	16:57
Vinyl chloride	< 8.33	ug/Kg	3/29/2022	16:57

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**120**	74.7 - 140		3/29/2022	16:57
4-Bromofluorobenzene	**93.9**	68 - 130		3/29/2022	16:57
Pentafluorobenzene	**115**	70.3 - 140		3/29/2022	16:57
Toluene-D8	**119**	69 - 138		3/29/2022	16:57

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: z08073.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221212

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier: Brick-Multi-03222022
Lab Sample ID: 221212-01A **Date Sampled:** 3/22/2022 15:00
Matrix: TCLP Extract **Date Received** 3/23/2022

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		3/28/2022 17:46
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		3/28/2022 17:46
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		3/28/2022 17:46
2,4-Dinitrotoluene	< 40.0	ug/L	130		3/28/2022 17:46
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		3/28/2022 17:46
Hexachlorobenzene	< 40.0	ug/L	130		3/28/2022 17:46
Hexachlorobutadiene	< 40.0	ug/L	500		3/28/2022 17:46
Hexachloroethane	< 40.0	ug/L	3000		3/28/2022 17:46
Nitrobenzene	< 40.0	ug/L	2000		3/28/2022 17:46
Pentachlorophenol	< 80.0	ug/L	100000		3/28/2022 17:46
Pyridine	< 40.0	ug/L	5000		3/28/2022 17:46

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**90.3**	29.6 - 139		3/28/2022 17:46
2-Fluorobiphenyl	**69.5**	5 - 124		3/28/2022 17:46
2-Fluorophenol	**71.9**	10 - 122		3/28/2022 17:46
Nitrobenzene-d5	**65.8**	28.7 - 119		3/28/2022 17:46
Phenol-d5	**64.5**	10 - 115		3/28/2022 17:46
Terphenyl-d14	**80.4**	32.2 - 142		3/28/2022 17:46

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 3/28/2022
Data File: B60704.D

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		3/29/2022 15:59
1,2-Dichloroethane	< 20.0	ug/L	500		3/29/2022 15:59
2-Butanone	< 100	ug/L	200000		3/29/2022 15:59
Benzene	< 20.0	ug/L	500		3/29/2022 15:59

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221212

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier: Brick-Multi-03222022
Lab Sample ID: 221212-01A **Date Sampled:** 3/22/2022 15:00
Matrix: TCLP Extract **Date Received** 3/23/2022

Carbon Tetrachloride	< 20.0	ug/L	500		3/29/2022 15:59
Chlorobenzene	< 20.0	ug/L	100000		3/29/2022 15:59
Chloroform	< 20.0	ug/L	6000		3/29/2022 15:59
Tetrachloroethene	< 20.0	ug/L	700		3/29/2022 15:59
Trichloroethene	< 20.0	ug/L	500		3/29/2022 15:59
Vinyl chloride	< 20.0	ug/L	200		3/29/2022 15:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**118**	81.1 - 136		3/29/2022 15:59
4-Bromofluorobenzene	**98.0**	75.8 - 132		3/29/2022 15:59
Pentafluorobenzene	**114**	82 - 132		3/29/2022 15:59
Toluene-D8	**116**	64.6 - 137		3/29/2022 15:59

Method Reference(s): EPA 8260C
EPA 1311 / 5030C
Data File: z08070.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221212

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier: Brick-Red-03222022
Lab Sample ID: 221212-02 **Date Sampled:** 3/22/2022 15:00
Matrix: Solid **Date Received** 3/23/2022

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 278	ug/Kg		3/25/2022 03:43
1,2,4,5-Tetrachlorobenzene	< 278	ug/Kg		3/25/2022 03:43
1,2,4-Trichlorobenzene	< 278	ug/Kg		3/25/2022 03:43
1,2-Dichlorobenzene	< 278	ug/Kg		3/25/2022 03:43
1,3-Dichlorobenzene	< 278	ug/Kg		3/25/2022 03:43
1,4-Dichlorobenzene	< 278	ug/Kg		3/25/2022 03:43
2,2-Oxybis (1-chloropropane)	< 278	ug/Kg		3/25/2022 03:43
2,3,4,6-Tetrachlorophenol	< 278	ug/Kg		3/25/2022 03:43
2,4,5-Trichlorophenol	< 278	ug/Kg		3/25/2022 03:43
2,4,6-Trichlorophenol	< 278	ug/Kg		3/25/2022 03:43
2,4-Dichlorophenol	< 278	ug/Kg		3/25/2022 03:43
2,4-Dimethylphenol	< 278	ug/Kg		3/25/2022 03:43
2,4-Dinitrophenol	< 1110	ug/Kg		3/25/2022 03:43
2,4-Dinitrotoluene	< 278	ug/Kg		3/25/2022 03:43
2,6-Dinitrotoluene	< 278	ug/Kg		3/25/2022 03:43
2-Chloronaphthalene	< 278	ug/Kg		3/25/2022 03:43
2-Chlorophenol	< 278	ug/Kg		3/25/2022 03:43
2-Methylnapthalene	< 278	ug/Kg		3/25/2022 03:43
2-Methylphenol	< 278	ug/Kg		3/25/2022 03:43
2-Nitroaniline	< 278	ug/Kg		3/25/2022 03:43
2-Nitrophenol	< 278	ug/Kg		3/25/2022 03:43
3&4-Methylphenol	< 278	ug/Kg		3/25/2022 03:43
3,3'-Dichlorobenzidine	< 278	ug/Kg		3/25/2022 03:43
3-Nitroaniline	< 278	ug/Kg		3/25/2022 03:43
4,6-Dinitro-2-methylphenol	< 372	ug/Kg		3/25/2022 03:43
4-Bromophenyl phenyl ether	< 278	ug/Kg		3/25/2022 03:43
4-Chloro-3-methylphenol	< 278	ug/Kg		3/25/2022 03:43
4-Chloroaniline	< 278	ug/Kg		3/25/2022 03:43

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221212

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier: Brick-Red-03222022
Lab Sample ID: 221212-02 **Date Sampled:** 3/22/2022 15:00
Matrix: Solid **Date Received** 3/23/2022

4-Chlorophenyl phenyl ether	< 278	ug/Kg	3/25/2022 03:43
4-Nitroaniline	< 278	ug/Kg	3/25/2022 03:43
4-Nitrophenol	< 278	ug/Kg	3/25/2022 03:43
Acenaphthene	< 278	ug/Kg	3/25/2022 03:43
Acenaphthylene	< 278	ug/Kg	3/25/2022 03:43
Acetophenone	< 278	ug/Kg	3/25/2022 03:43
Anthracene	< 278	ug/Kg	3/25/2022 03:43
Atrazine	< 278	ug/Kg	3/25/2022 03:43
Benzaldehyde	< 278	ug/Kg	3/25/2022 03:43
Benzo (a) anthracene	< 278	ug/Kg	3/25/2022 03:43
Benzo (a) pyrene	< 278	ug/Kg	3/25/2022 03:43
Benzo (b) fluoranthene	< 278	ug/Kg	3/25/2022 03:43
Benzo (g,h,i) perylene	< 278	ug/Kg	3/25/2022 03:43
Benzo (k) fluoranthene	< 278	ug/Kg	3/25/2022 03:43
Bis (2-chloroethoxy) methane	< 278	ug/Kg	3/25/2022 03:43
Bis (2-chloroethyl) ether	< 278	ug/Kg	3/25/2022 03:43
Bis (2-ethylhexyl) phthalate	< 278	ug/Kg	3/25/2022 03:43
Butylbenzylphthalate	< 278	ug/Kg	3/25/2022 03:43
Caprolactam	< 278	ug/Kg	3/25/2022 03:43
Carbazole	< 278	ug/Kg	3/25/2022 03:43
Chrysene	**301**	ug/Kg	3/25/2022 03:43
Dibenz (a,h) anthracene	< 278	ug/Kg	3/25/2022 03:43
Dibenzofuran	< 278	ug/Kg	3/25/2022 03:43
Diethyl phthalate	< 278	ug/Kg	3/25/2022 03:43
Dimethyl phthalate	< 278	ug/Kg	3/25/2022 03:43
Di-n-butyl phthalate	< 278	ug/Kg	3/25/2022 03:43
Di-n-octylphthalate	< 278	ug/Kg	3/25/2022 03:43
Fluoranthene	**499**	ug/Kg	3/25/2022 03:43
Fluorene	< 278	ug/Kg	3/25/2022 03:43
Hexachlorobenzene	< 278	ug/Kg	3/25/2022 03:43

Sample Identifier: Brick-Red-03222022
Lab Sample ID: 221212-02 **Date Sampled:** 3/22/2022 15:00
Matrix: Solid **Date Received** 3/23/2022

Hexachlorobutadiene	< 278	ug/Kg		3/25/2022 03:43
Hexachlorocyclopentadiene	< 1110	ug/Kg		3/25/2022 03:43
Hexachloroethane	< 278	ug/Kg		3/25/2022 03:43
Indeno (1,2,3-cd) pyrene	< 278	ug/Kg		3/25/2022 03:43
Isophorone	< 278	ug/Kg		3/25/2022 03:43
Naphthalene	< 278	ug/Kg		3/25/2022 03:43
Nitrobenzene	< 278	ug/Kg		3/25/2022 03:43
N-Nitroso-di-n-propylamine	< 278	ug/Kg		3/25/2022 03:43
N-Nitrosodiphenylamine	< 278	ug/Kg		3/25/2022 03:43
Pentachlorophenol	< 556	ug/Kg		3/25/2022 03:43
Phenanthrene	**431**	ug/Kg		3/25/2022 03:43
Phenol	< 278	ug/Kg		3/25/2022 03:43
Pyrene	< 278	ug/Kg		3/25/2022 03:43

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**62.6**	35.4 - 92.4		3/25/2022 03:43
2-Fluorobiphenyl	**46.8**	39.6 - 84.4		3/25/2022 03:43
2-Fluorophenol	**54.9**	35.5 - 78.9		3/25/2022 03:43
Nitrobenzene-d5	**40.3**	36.5 - 78.2		3/25/2022 03:43
Phenol-d5	**62.9**	37.1 - 78.3		3/25/2022 03:43
Terphenyl-d14	**62.8**	42.3 - 103		3/25/2022 03:43

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 3/24/2022
Data File: B60650.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 9.62	ug/Kg		3/29/2022 17:16
1,1,2,2-Tetrachloroethane	< 9.62	ug/Kg		3/29/2022 17:16
1,1,2-Trichloroethane	< 9.62	ug/Kg		3/29/2022 17:16
1,1-Dichloroethane	< 9.62	ug/Kg		3/29/2022 17:16
1,1-Dichloroethene	< 9.62	ug/Kg		3/29/2022 17:16

Sample Identifier: Brick-Red-03222022
Lab Sample ID: 221212-02 **Date Sampled:** 3/22/2022 15:00
Matrix: Solid **Date Received** 3/23/2022

1,2,3-Trichlorobenzene	< 24.0	ug/Kg	3/29/2022 17:16
1,2,4-Trichlorobenzene	< 24.0	ug/Kg	3/29/2022 17:16
1,2-Dibromo-3-Chloropropane	< 48.1	ug/Kg	3/29/2022 17:16
1,2-Dibromoethane	< 9.62	ug/Kg	3/29/2022 17:16
1,2-Dichlorobenzene	< 9.62	ug/Kg	3/29/2022 17:16
1,2-Dichloroethane	< 9.62	ug/Kg	3/29/2022 17:16
1,2-Dichloropropane	< 9.62	ug/Kg	3/29/2022 17:16
1,3-Dichlorobenzene	< 9.62	ug/Kg	3/29/2022 17:16
1,4-Dichlorobenzene	< 9.62	ug/Kg	3/29/2022 17:16
1,4-Dioxane	< 48.1	ug/Kg	3/29/2022 17:16
2-Butanone	< 48.1	ug/Kg	3/29/2022 17:16
2-Hexanone	< 24.0	ug/Kg	3/29/2022 17:16
4-Methyl-2-pentanone	< 24.0	ug/Kg	3/29/2022 17:16
Acetone	< 48.1	ug/Kg	3/29/2022 17:16
Benzene	< 9.62	ug/Kg	3/29/2022 17:16
Bromochloromethane	< 24.0	ug/Kg	3/29/2022 17:16
Bromodichloromethane	< 9.62	ug/Kg	3/29/2022 17:16
Bromoform	< 24.0	ug/Kg	3/29/2022 17:16
Bromomethane	< 9.62	ug/Kg	3/29/2022 17:16
Carbon disulfide	< 9.62	ug/Kg	3/29/2022 17:16
Carbon Tetrachloride	< 9.62	ug/Kg	3/29/2022 17:16
Chlorobenzene	< 9.62	ug/Kg	3/29/2022 17:16
Chloroethane	< 9.62	ug/Kg	3/29/2022 17:16
Chloroform	< 9.62	ug/Kg	3/29/2022 17:16
Chloromethane	< 9.62	ug/Kg	3/29/2022 17:16
cis-1,2-Dichloroethene	< 9.62	ug/Kg	3/29/2022 17:16
cis-1,3-Dichloropropene	< 9.62	ug/Kg	3/29/2022 17:16
Cyclohexane	< 48.1	ug/Kg	3/29/2022 17:16
Dibromochloromethane	< 9.62	ug/Kg	3/29/2022 17:16
Dichlorodifluoromethane	< 9.62	ug/Kg	3/29/2022 17:16

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221212

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier: Brick-Red-03222022
Lab Sample ID: 221212-02 **Date Sampled:** 3/22/2022 15:00
Matrix: Solid **Date Received** 3/23/2022

Ethylbenzene	< 9.62	ug/Kg	3/29/2022	17:16
Freon 113	< 9.62	ug/Kg	3/29/2022	17:16
Isopropylbenzene	< 9.62	ug/Kg	3/29/2022	17:16
m,p-Xylene	< 9.62	ug/Kg	3/29/2022	17:16
Methyl acetate	< 9.62	ug/Kg	3/29/2022	17:16
Methyl tert-butyl Ether	< 9.62	ug/Kg	3/29/2022	17:16
Methylcyclohexane	< 9.62	ug/Kg	3/29/2022	17:16
Methylene chloride	< 24.0	ug/Kg	3/29/2022	17:16
o-Xylene	< 9.62	ug/Kg	3/29/2022	17:16
Styrene	< 24.0	ug/Kg	3/29/2022	17:16
Tetrachloroethene	< 9.62	ug/Kg	3/29/2022	17:16
Toluene	< 9.62	ug/Kg	3/29/2022	17:16
trans-1,2-Dichloroethene	< 9.62	ug/Kg	3/29/2022	17:16
trans-1,3-Dichloropropene	< 9.62	ug/Kg	3/29/2022	17:16
Trichloroethene	< 9.62	ug/Kg	3/29/2022	17:16
Trichlorofluoromethane	< 9.62	ug/Kg	3/29/2022	17:16
Vinyl chloride	< 9.62	ug/Kg	3/29/2022	17:16

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**121**	74.7 - 140		3/29/2022	17:16
4-Bromofluorobenzene	**94.1**	68 - 130		3/29/2022	17:16
Pentafluorobenzene	**115**	70.3 - 140		3/29/2022	17:16
Toluene-D8	**121**	69 - 138		3/29/2022	17:16

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z08074.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221212

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier: Brick-Red-03222022
Lab Sample ID: 221212-02A **Date Sampled:** 3/22/2022 15:00
Matrix: TCLP Extract **Date Received** 3/23/2022

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		3/28/2022 18:15
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		3/28/2022 18:15
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		3/28/2022 18:15
2,4-Dinitrotoluene	< 40.0	ug/L	130		3/28/2022 18:15
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		3/28/2022 18:15
Hexachlorobenzene	< 40.0	ug/L	130		3/28/2022 18:15
Hexachlorobutadiene	< 40.0	ug/L	500		3/28/2022 18:15
Hexachloroethane	< 40.0	ug/L	3000		3/28/2022 18:15
Nitrobenzene	< 40.0	ug/L	2000		3/28/2022 18:15
Pentachlorophenol	< 80.0	ug/L	100000		3/28/2022 18:15
Pyridine	< 40.0	ug/L	5000		3/28/2022 18:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**92.9**	29.6 - 139		3/28/2022 18:15
2-Fluorobiphenyl	**72.6**	5 - 124		3/28/2022 18:15
2-Fluorophenol	**72.6**	10 - 122		3/28/2022 18:15
Nitrobenzene-d5	**65.2**	28.7 - 119		3/28/2022 18:15
Phenol-d5	**65.5**	10 - 115		3/28/2022 18:15
Terphenyl-d14	**80.3**	32.2 - 142		3/28/2022 18:15

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 3/28/2022
Data File: B60705.D

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		3/29/2022 16:18
1,2-Dichloroethane	< 20.0	ug/L	500		3/29/2022 16:18
2-Butanone	< 100	ug/L	200000		3/29/2022 16:18
Benzene	< 20.0	ug/L	500		3/29/2022 16:18

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221212

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier: Brick-Red-03222022
Lab Sample ID: 221212-02A **Date Sampled:** 3/22/2022 15:00
Matrix: TCLP Extract **Date Received** 3/23/2022

Carbon Tetrachloride	< 20.0	ug/L	500	3/29/2022	16:18
Chlorobenzene	< 20.0	ug/L	100000	3/29/2022	16:18
Chloroform	< 20.0	ug/L	6000	3/29/2022	16:18
Tetrachloroethene	< 20.0	ug/L	700	3/29/2022	16:18
Trichloroethene	< 20.0	ug/L	500	3/29/2022	16:18
Vinyl chloride	< 20.0	ug/L	200	3/29/2022	16:18

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**126**	81.1 - 136		3/29/2022	16:18
4-Bromofluorobenzene	**98.9**	75.8 - 132		3/29/2022	16:18
Pentafluorobenzene	**115**	82 - 132		3/29/2022	16:18
Toluene-D8	**122**	64.6 - 137		3/29/2022	16:18

Method Reference(s): EPA 8260C
EPA 1311 / 5030C
Data File: z08071.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221212

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier:	Brick-Yelw-03222022		
Lab Sample ID:	221212-03	**Date Sampled:**	3/22/2022 15:00
Matrix:	Solid	**Date Received**	3/23/2022

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 269	ug/Kg		3/25/2022 04:12
1,2,4,5-Tetrachlorobenzene	< 269	ug/Kg		3/25/2022 04:12
1,2,4-Trichlorobenzene	< 269	ug/Kg		3/25/2022 04:12
1,2-Dichlorobenzene	< 269	ug/Kg		3/25/2022 04:12
1,3-Dichlorobenzene	< 269	ug/Kg		3/25/2022 04:12
1,4-Dichlorobenzene	< 269	ug/Kg		3/25/2022 04:12
2,2-Oxybis (1-chloropropane)	< 269	ug/Kg		3/25/2022 04:12
2,3,4,6-Tetrachlorophenol	< 269	ug/Kg		3/25/2022 04:12
2,4,5-Trichlorophenol	< 269	ug/Kg		3/25/2022 04:12
2,4,6-Trichlorophenol	< 269	ug/Kg		3/25/2022 04:12
2,4-Dichlorophenol	< 269	ug/Kg		3/25/2022 04:12
2,4-Dimethylphenol	< 269	ug/Kg		3/25/2022 04:12
2,4-Dinitrophenol	< 1080	ug/Kg		3/25/2022 04:12
2,4-Dinitrotoluene	< 269	ug/Kg		3/25/2022 04:12
2,6-Dinitrotoluene	< 269	ug/Kg		3/25/2022 04:12
2-Chloronaphthalene	< 269	ug/Kg		3/25/2022 04:12
2-Chlorophenol	< 269	ug/Kg		3/25/2022 04:12
2-Methylnapthalene	< 269	ug/Kg		3/25/2022 04:12
2-Methylphenol	< 269	ug/Kg		3/25/2022 04:12
2-Nitroaniline	< 269	ug/Kg		3/25/2022 04:12
2-Nitrophenol	< 269	ug/Kg		3/25/2022 04:12
3&4-Methylphenol	< 269	ug/Kg		3/25/2022 04:12
3,3'-Dichlorobenzidine	< 269	ug/Kg		3/25/2022 04:12
3-Nitroaniline	< 269	ug/Kg		3/25/2022 04:12
4,6-Dinitro-2-methylphenol	< 360	ug/Kg		3/25/2022 04:12
4-Bromophenyl phenyl ether	< 269	ug/Kg		3/25/2022 04:12
4-Chloro-3-methylphenol	< 269	ug/Kg		3/25/2022 04:12
4-Chloroaniline	< 269	ug/Kg		3/25/2022 04:12

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221212

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier: Brick-Yelw-03222022
Lab Sample ID: 221212-03 **Date Sampled:** 3/22/2022 15:00
Matrix: Solid **Date Received** 3/23/2022

4-Chlorophenyl phenyl ether	< 269	ug/Kg	3/25/2022 04:12
4-Nitroaniline	< 269	ug/Kg	3/25/2022 04:12
4-Nitrophenol	< 269	ug/Kg	3/25/2022 04:12
Acenaphthene	< 269	ug/Kg	3/25/2022 04:12
Acenaphthylene	< 269	ug/Kg	3/25/2022 04:12
Acetophenone	< 269	ug/Kg	3/25/2022 04:12
Anthracene	< 269	ug/Kg	3/25/2022 04:12
Atrazine	< 269	ug/Kg	3/25/2022 04:12
Benzaldehyde	< 269	ug/Kg	3/25/2022 04:12
Benzo (a) anthracene	< 269	ug/Kg	3/25/2022 04:12
Benzo (a) pyrene	< 269	ug/Kg	3/25/2022 04:12
Benzo (b) fluoranthene	< 269	ug/Kg	3/25/2022 04:12
Benzo (g,h,i) perylene	< 269	ug/Kg	3/25/2022 04:12
Benzo (k) fluoranthene	< 269	ug/Kg	3/25/2022 04:12
Bis (2-chloroethoxy) methane	< 269	ug/Kg	3/25/2022 04:12
Bis (2-chloroethyl) ether	< 269	ug/Kg	3/25/2022 04:12
Bis (2-ethylhexyl) phthalate	< 269	ug/Kg	3/25/2022 04:12
Butylbenzylphthalate	< 269	ug/Kg	3/25/2022 04:12
Caprolactam	< 269	ug/Kg	3/25/2022 04:12
Carbazole	< 269	ug/Kg	3/25/2022 04:12
Chrysene	< 269	ug/Kg	3/25/2022 04:12
Dibenz (a,h) anthracene	< 269	ug/Kg	3/25/2022 04:12
Dibenzofuran	< 269	ug/Kg	3/25/2022 04:12
Diethyl phthalate	< 269	ug/Kg	3/25/2022 04:12
Dimethyl phthalate	< 269	ug/Kg	3/25/2022 04:12
Di-n-butyl phthalate	< 269	ug/Kg	3/25/2022 04:12
Di-n-octylphthalate	< 269	ug/Kg	3/25/2022 04:12
Fluoranthene	< 269	ug/Kg	3/25/2022 04:12
Fluorene	< 269	ug/Kg	3/25/2022 04:12
Hexachlorobenzene	< 269	ug/Kg	3/25/2022 04:12

Sample Identifier: Brick-Yelw-03222022
Lab Sample ID: 221212-03 **Date Sampled:** 3/22/2022 15:00
Matrix: Solid **Date Received** 3/23/2022

Hexachlorobutadiene	< 269	ug/Kg	3/25/2022	04:12
Hexachlorocyclopentadiene	< 1080	ug/Kg	3/25/2022	04:12
Hexachloroethane	< 269	ug/Kg	3/25/2022	04:12
Indeno (1,2,3-cd) pyrene	< 269	ug/Kg	3/25/2022	04:12
Isophorone	< 269	ug/Kg	3/25/2022	04:12
Naphthalene	< 269	ug/Kg	3/25/2022	04:12
Nitrobenzene	< 269	ug/Kg	3/25/2022	04:12
N-Nitroso-di-n-propylamine	< 269	ug/Kg	3/25/2022	04:12
N-Nitrosodiphenylamine	< 269	ug/Kg	3/25/2022	04:12
Pentachlorophenol	< 538	ug/Kg	3/25/2022	04:12
Phenanthrene	< 269	ug/Kg	3/25/2022	04:12
Phenol	< 269	ug/Kg	3/25/2022	04:12
Pyrene	< 269	ug/Kg	3/25/2022	04:12

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**56.8**	35.4 - 92.4		3/25/2022	04:12
2-Fluorobiphenyl	**40.5**	39.6 - 84.4		3/25/2022	04:12
2-Fluorophenol	**45.1**	35.5 - 78.9		3/25/2022	04:12
Nitrobenzene-d5	**35.1**	36.5 - 78.2	*	3/25/2022	04:12
Phenol-d5	**47.7**	37.1 - 78.3		3/25/2022	04:12
Terphenyl-d14	**59.9**	42.3 - 103		3/25/2022	04:12

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 3/24/2022
Data File: B60651.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 5.71	ug/Kg		3/29/2022	17:35
1,1,2,2-Tetrachloroethane	< 5.71	ug/Kg		3/29/2022	17:35
1,1,2-Trichloroethane	< 5.71	ug/Kg		3/29/2022	17:35
1,1-Dichloroethane	< 5.71	ug/Kg		3/29/2022	17:35
1,1-Dichloroethene	< 5.71	ug/Kg		3/29/2022	17:35

Sample Identifier: Brick-Yelw-03222022
Lab Sample ID: 221212-03 **Date Sampled:** 3/22/2022 15:00
Matrix: Solid **Date Received** 3/23/2022

1,2,3-Trichlorobenzene	< 14.3	ug/Kg	3/29/2022 17:35
1,2,4-Trichlorobenzene	< 14.3	ug/Kg	3/29/2022 17:35
1,2-Dibromo-3-Chloropropane	< 28.6	ug/Kg	3/29/2022 17:35
1,2-Dibromoethane	< 5.71	ug/Kg	3/29/2022 17:35
1,2-Dichlorobenzene	< 5.71	ug/Kg	3/29/2022 17:35
1,2-Dichloroethane	< 5.71	ug/Kg	3/29/2022 17:35
1,2-Dichloropropane	< 5.71	ug/Kg	3/29/2022 17:35
1,3-Dichlorobenzene	< 5.71	ug/Kg	3/29/2022 17:35
1,4-Dichlorobenzene	< 5.71	ug/Kg	3/29/2022 17:35
1,4-Dioxane	< 28.6	ug/Kg	3/29/2022 17:35
2-Butanone	< 28.6	ug/Kg	3/29/2022 17:35
2-Hexanone	< 14.3	ug/Kg	3/29/2022 17:35
4-Methyl-2-pentanone	< 14.3	ug/Kg	3/29/2022 17:35
Acetone	< 28.6	ug/Kg	3/29/2022 17:35
Benzene	< 5.71	ug/Kg	3/29/2022 17:35
Bromochloromethane	< 14.3	ug/Kg	3/29/2022 17:35
Bromodichloromethane	< 5.71	ug/Kg	3/29/2022 17:35
Bromoform	< 14.3	ug/Kg	3/29/2022 17:35
Bromomethane	< 5.71	ug/Kg	3/29/2022 17:35
Carbon disulfide	< 5.71	ug/Kg	3/29/2022 17:35
Carbon Tetrachloride	< 5.71	ug/Kg	3/29/2022 17:35
Chlorobenzene	< 5.71	ug/Kg	3/29/2022 17:35
Chloroethane	< 5.71	ug/Kg	3/29/2022 17:35
Chloroform	< 5.71	ug/Kg	3/29/2022 17:35
Chloromethane	< 5.71	ug/Kg	3/29/2022 17:35
cis-1,2-Dichloroethene	< 5.71	ug/Kg	3/29/2022 17:35
cis-1,3-Dichloropropene	< 5.71	ug/Kg	3/29/2022 17:35
Cyclohexane	< 28.6	ug/Kg	3/29/2022 17:35
Dibromochloromethane	< 5.71	ug/Kg	3/29/2022 17:35
Dichlorodifluoromethane	< 5.71	ug/Kg	3/29/2022 17:35

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221212

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier:	Brick-Yelw-03222022		
Lab Sample ID:	221212-03	**Date Sampled:**	3/22/2022 15:00
Matrix:	Solid	**Date Received**	3/23/2022

Ethylbenzene	< 5.71	ug/Kg		3/29/2022 17:35
Freon 113	< 5.71	ug/Kg		3/29/2022 17:35
Isopropylbenzene	< 5.71	ug/Kg		3/29/2022 17:35
m,p-Xylene	< 5.71	ug/Kg		3/29/2022 17:35
Methyl acetate	< 5.71	ug/Kg		3/29/2022 17:35
Methyl tert-butyl Ether	< 5.71	ug/Kg		3/29/2022 17:35
Methylcyclohexane	< 5.71	ug/Kg		3/29/2022 17:35
Methylene chloride	< 14.3	ug/Kg		3/29/2022 17:35
o-Xylene	< 5.71	ug/Kg		3/29/2022 17:35
Styrene	< 14.3	ug/Kg		3/29/2022 17:35
Tetrachloroethene	< 5.71	ug/Kg		3/29/2022 17:35
Toluene	< 5.71	ug/Kg		3/29/2022 17:35
trans-1,2-Dichloroethene	< 5.71	ug/Kg		3/29/2022 17:35
trans-1,3-Dichloropropene	< 5.71	ug/Kg		3/29/2022 17:35
Trichloroethene	< 5.71	ug/Kg		3/29/2022 17:35
Trichlorofluoromethane	< 5.71	ug/Kg		3/29/2022 17:35
Vinyl chloride	< 5.71	ug/Kg		3/29/2022 17:35

Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
1,2-Dichloroethane-d4	**120**	74.7 - 140		3/29/2022 17:35
4-Bromofluorobenzene	**91.7**	68 - 130		3/29/2022 17:35
Pentafluorobenzene	**116**	70.3 - 140		3/29/2022 17:35
Toluene-D8	**121**	69 - 138		3/29/2022 17:35

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z08075.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221212

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier:	Brick-Yelw-03222022		
Lab Sample ID:	221212-03A	**Date Sampled:** 3/22/2022	15:00
Matrix:	TCLP Extract	**Date Received** 3/23/2022	

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		3/28/2022 18:44
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		3/28/2022 18:44
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		3/28/2022 18:44
2,4-Dinitrotoluene	< 40.0	ug/L	130		3/28/2022 18:44
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		3/28/2022 18:44
Hexachlorobenzene	< 40.0	ug/L	130		3/28/2022 18:44
Hexachlorobutadiene	< 40.0	ug/L	500		3/28/2022 18:44
Hexachloroethane	< 40.0	ug/L	3000		3/28/2022 18:44
Nitrobenzene	< 40.0	ug/L	2000		3/28/2022 18:44
Pentachlorophenol	< 80.0	ug/L	100000		3/28/2022 18:44
Pyridine	< 40.0	ug/L	5000		3/28/2022 18:44

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**92.0**	29.6 - 139		3/28/2022 18:44
2-Fluorobiphenyl	**70.0**	5 - 124		3/28/2022 18:44
2-Fluorophenol	**72.8**	10 - 122		3/28/2022 18:44
Nitrobenzene-d5	**67.4**	28.7 - 119		3/28/2022 18:44
Phenol-d5	**67.1**	10 - 115		3/28/2022 18:44
Terphenyl-d14	**81.1**	32.2 - 142		3/28/2022 18:44

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 3/28/2022
Data File: B60706.D

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		3/29/2022 16:37
1,2-Dichloroethane	< 20.0	ug/L	500		3/29/2022 16:37
2-Butanone	< 100	ug/L	200000		3/29/2022 16:37
Benzene	< 20.0	ug/L	500		3/29/2022 16:37

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221212

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier: Brick-Yelw-03222022
Lab Sample ID: 221212-03A **Date Sampled:** 3/22/2022 15:00
Matrix: TCLP Extract **Date Received** 3/23/2022

Carbon Tetrachloride	< 20.0	ug/L	500	3/29/2022	16:37
Chlorobenzene	< 20.0	ug/L	100000	3/29/2022	16:37
Chloroform	< 20.0	ug/L	6000	3/29/2022	16:37
Tetrachloroethene	< 20.0	ug/L	700	3/29/2022	16:37
Trichloroethene	< 20.0	ug/L	500	3/29/2022	16:37
Vinyl chloride	< 20.0	ug/L	200	3/29/2022	16:37

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**122**	81.1 - 136		3/29/2022	16:37
4-Bromofluorobenzene	**93.9**	75.8 - 132		3/29/2022	16:37
Pentafluorobenzene	**116**	82 - 132		3/29/2022	16:37
Toluene-D8	**122**	64.6 - 137		3/29/2022	16:37

Method Reference(s): EPA 8260C
EPA 1311 / 5030C
Data File: z08072.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Battery Brick
Lab Project ID: 221212
Matrix: Solid

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1-Biphenyl	<278	ug/Kg		3/24/2022	22:55
1,2,4,5-Tetrachlorobenzene	<278	ug/Kg		3/24/2022	22:55
1,2,4-Trichlorobenzene	<278	ug/Kg		3/24/2022	22:55
1,2-Dichlorobenzene	<278	ug/Kg		3/24/2022	22:55
1,3-Dichlorobenzene	<278	ug/Kg		3/24/2022	22:55
1,4-Dichlorobenzene	<278	ug/Kg		3/24/2022	22:55
2,2-Oxybis (1-chloropropane)	<278	ug/Kg		3/24/2022	22:55
2,3,4,6-Tetrachlorophenol	<278	ug/Kg		3/24/2022	22:55
2,4,5-Trichlorophenol	<278	ug/Kg		3/24/2022	22:55
2,4,6-Trichlorophenol	<278	ug/Kg		3/24/2022	22:55
2,4-Dichlorophenol	<278	ug/Kg		3/24/2022	22:55
2,4-Dimethylphenol	<278	ug/Kg		3/24/2022	22:55
2,4-Dinitrophenol	<1110	ug/Kg		3/24/2022	22:55
2,4-Dinitrotoluene	<278	ug/Kg		3/24/2022	22:55
2,6-Dinitrotoluene	<278	ug/Kg		3/24/2022	22:55
2-Chloronaphthalene	<278	ug/Kg		3/24/2022	22:55
2-Chlorophenol	<278	ug/Kg		3/24/2022	22:55
2-Methylnapthalene	<278	ug/Kg		3/24/2022	22:55
2-Methylphenol	<278	ug/Kg		3/24/2022	22:55
2-Nitroaniline	<278	ug/Kg		3/24/2022	22:55
2-Nitrophenol	<278	ug/Kg		3/24/2022	22:55
3&4-Methylphenol	<278	ug/Kg		3/24/2022	22:55
3,3'-Dichlorobenzidine	<278	ug/Kg		3/24/2022	22:55
3-Nitroaniline	<278	ug/Kg		3/24/2022	22:55
4,6-Dinitro-2-methylphenol	<556	ug/Kg		3/24/2022	22:55
4-Bromophenyl phenyl ether	<278	ug/Kg		3/24/2022	22:55
4-Chloro-3-methylphenol	<278	ug/Kg		3/24/2022	22:55

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PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: Battery Brick

Lab Project ID: 221212

Matrix: Solid

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed	
4-Chloroaniline	<278	ug/Kg		3/24/2022	22:55
4-Chlorophenyl phenyl ether	<278	ug/Kg		3/24/2022	22:55
4-Nitroaniline	<278	ug/Kg		3/24/2022	22:55
4-Nitrophenol	<278	ug/Kg		3/24/2022	22:55
Acenaphthene	<278	ug/Kg		3/24/2022	22:55
Acenaphthylene	<278	ug/Kg		3/24/2022	22:55
Acetophenone	<278	ug/Kg		3/24/2022	22:55
Anthracene	<278	ug/Kg		3/24/2022	22:55
Atrazine	<278	ug/Kg		3/24/2022	22:55
Benzaldehyde	<278	ug/Kg		3/24/2022	22:55
Benzo (a) anthracene	<278	ug/Kg		3/24/2022	22:55
Benzo (a) pyrene	<278	ug/Kg		3/24/2022	22:55
Benzo (b) fluoranthene	<278	ug/Kg		3/24/2022	22:55
Benzo (g,h,i) perylene	<278	ug/Kg		3/24/2022	22:55
Benzo (k) fluoranthene	<278	ug/Kg		3/24/2022	22:55
Bis (2-chloroethoxy) methane	<278	ug/Kg		3/24/2022	22:55
Bis (2-chloroethyl) ether	<278	ug/Kg		3/24/2022	22:55
Bis (2-ethylhexyl) phthalate	<278	ug/Kg		3/24/2022	22:55
Butylbenzylphthalate	<278	ug/Kg		3/24/2022	22:55
Caprolactam	<278	ug/Kg		3/24/2022	22:55
Carbazole	<278	ug/Kg		3/24/2022	22:55
Chrysene	<278	ug/Kg		3/24/2022	22:55
Dibenz (a,h) anthracene	<278	ug/Kg		3/24/2022	22:55
Dibenzofuran	<278	ug/Kg		3/24/2022	22:55
Diethyl phthalate	<278	ug/Kg		3/24/2022	22:55
Dimethyl phthalate	<278	ug/Kg		3/24/2022	22:55
Di-n-butyl phthalate	<278	ug/Kg		3/24/2022	22:55
Di-n-octylphthalate	<278	ug/Kg		3/24/2022	22:55

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: Battery Brick

Lab Project ID: 221212

Matrix: Solid

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed	
Fluoranthene	<278	ug/Kg		3/24/2022	22:55
Fluorene	<278	ug/Kg		3/24/2022	22:55
Hexachlorobenzene	<278	ug/Kg		3/24/2022	22:55
Hexachlorobutadiene	<278	ug/Kg		3/24/2022	22:55
Hexachlorocyclopentadiene	<1110	ug/Kg		3/24/2022	22:55
Hexachloroethane	<278	ug/Kg		3/24/2022	22:55
Indeno (1,2,3-cd) pyrene	<278	ug/Kg		3/24/2022	22:55
Isophorone	<278	ug/Kg		3/24/2022	22:55
Naphthalene	<278	ug/Kg		3/24/2022	22:55
Nitrobenzene	<278	ug/Kg		3/24/2022	22:55
N-Nitroso-di-n-propylamine	<278	ug/Kg		3/24/2022	22:55
N-Nitrosodiphenylamine	<278	ug/Kg		3/24/2022	22:55
Pentachlorophenol	<556	ug/Kg		3/24/2022	22:55
Phenanthrene	<278	ug/Kg		3/24/2022	22:55
Phenol	<278	ug/Kg		3/24/2022	22:55
Pyrene	<278	ug/Kg		3/24/2022	22:55

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 3/24/2022
Data File: B60640.D
QC Batch ID: QC220324ABNS
QC Number: Blk 1

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Report Prepared Friday, March 25, 2022

PARADIGM ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.
Project Reference: Battery Brick
Lab Project ID: 221212
Matrix: Solid

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,2,4-Trichlorobenzene	2650	ug/Kg	1480	55.8	36.4 - 88		3/24/2022
1,4-Dichlorobenzene	2650	ug/Kg	1420	53.6	34.3 - 78.9		3/24/2022
2,4-Dinitrotoluene	2650	ug/Kg	1560	59.0	40.2 - 99.7		3/24/2022
2-Chlorophenol	3970	ug/Kg	2480	62.6	49.5 - 80.8		3/24/2022
4-Chloro-3-methylphenol	3970	ug/Kg	2630	66.4	52.2 - 87.8		3/24/2022
4-Nitrophenol	3970	ug/Kg	1780	44.9	23.3 - 102		3/24/2022
Acenaphthene	2650	ug/Kg	1640	62.0	43.5 - 87.2		3/24/2022
N-Nitroso-di-n-propylamine	2650	ug/Kg	1470	55.5	32.6 - 89.2		3/24/2022
Pentachlorophenol	3970	ug/Kg	2280	57.3	41.8 - 107		3/24/2022
Phenol	3970	ug/Kg	2470	62.3	48.8 - 79.3		3/24/2022
Pyrene	2650	ug/Kg	1790	67.5	47.1 - 104		3/24/2022

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 3/24/2022
Data File: B60641.D
QC Number: LCS 1
QC Batch ID: QC220324ABNS

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Report Prepared Friday, March 25, 2022

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: Battery Brick

Lab Project ID: 221212

Matrix: TCLP Fluid

TCLP Semi-Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dichlorobenzene	<40.0	ug/L		3/28/2022 16:19
2,4,5-Trichlorophenol	<40.0	ug/L		3/28/2022 16:19
2,4,6-Trichlorophenol	<40.0	ug/L		3/28/2022 16:19
2,4-Dinitrotoluene	<40.0	ug/L		3/28/2022 16:19
Cresols (as m,p,o-Cresol)	<80.0	ug/L		3/28/2022 16:19
Hexachlorobenzene	<40.0	ug/L		3/28/2022 16:19
Hexachlorobutadiene	<40.0	ug/L		3/28/2022 16:19
Hexachloroethane	<40.0	ug/L		3/28/2022 16:19
Nitrobenzene	<40.0	ug/L		3/28/2022 16:19
Pentachlorophenol	<80.0	ug/L		3/28/2022 16:19
Pyridine	<40.0	ug/L		3/28/2022 16:19

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**88.1**	29.6 - 139		3/28/2022 16:19
2-Fluorobiphenyl	**62.6**	5 - 124		3/28/2022 16:19
2-Fluorophenol	**71.5**	10 - 122		3/28/2022 16:19
Nitrobenzene-d5	**64.9**	28.7 - 119		3/28/2022 16:19
Phenol-d5	**65.5**	10 - 115		3/28/2022 16:19
Terphenyl-d14	**78.7**	32.2 - 142		3/28/2022 16:19

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 3/28/2022
Data File: B60701.D
QC Batch ID: QC220328ABNT
QC Number: Blk 1

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PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Inventum Engineering, P.C.

Project Reference: Battery Brick

Lab Project ID: 221212

Matrix: TCLP Fluid

TCLP Semi-Volatile Organics

Analyte	LCS Added	LCSD Added	Spike Units	LCS Result	LCSD Result	LCS % Recovery	LCSD % Recovery	% Rec Limits	LCS Outliers	LCSD Outliers	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
1,4-Dichlorobenzene	200	200	ug/L	156	156	78.2	77.8	27.5 - 93.4			0.568	71.3		3/28/2022
2,4,6-Trichlorophenol	300	300	ug/L	285	276	95.0	92.1	50.5 - 126			3.17	61.9		3/28/2022
2,4-Dinitrotoluene	200	200	ug/L	188	183	93.9	91.3	55.2 - 112			2.79	40.9		3/28/2022
Pentachlorophenol	300	300	ug/L	299	298	99.6	99.2	26.5 - 160			0.427	120		3/28/2022

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 3/28/2022
Data File: B60702.D
B60703.D
QC Number: 1
QC Batch ID: QC220328ABNT

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Tuesday, March 29, 2022

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Battery Brick
Lab Project ID: 221212
Matrix: Solid

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	<2.00	ug/Kg		3/29/2022	14:07
1,1,2,2-Tetrachloroethane	<2.00	ug/Kg		3/29/2022	14:07
1,1,2-Trichloroethane	<2.00	ug/Kg		3/29/2022	14:07
1,1-Dichloroethane	<2.00	ug/Kg		3/29/2022	14:07
1,1-Dichloroethene	<2.00	ug/Kg		3/29/2022	14:07
1,2,3-Trichlorobenzene	<5.00	ug/Kg		3/29/2022	14:07
1,2,4-Trichlorobenzene	<5.00	ug/Kg		3/29/2022	14:07
1,2-Dibromo-3-Chloropropane	<10.0	ug/Kg		3/29/2022	14:07
1,2-Dibromoethane	<2.00	ug/Kg		3/29/2022	14:07
1,2-Dichlorobenzene	<2.00	ug/Kg		3/29/2022	14:07
1,2-Dichloroethane	<2.00	ug/Kg		3/29/2022	14:07
1,2-Dichloropropane	<2.00	ug/Kg		3/29/2022	14:07
1,3-Dichlorobenzene	<2.00	ug/Kg		3/29/2022	14:07
1,4-Dichlorobenzene	<2.00	ug/Kg		3/29/2022	14:07
1,4-Dioxane	<10.0	ug/Kg		3/29/2022	14:07
2-Butanone	<10.0	ug/Kg		3/29/2022	14:07
2-Hexanone	<5.00	ug/Kg		3/29/2022	14:07
4-Methyl-2-pentanone	<5.00	ug/Kg		3/29/2022	14:07
Acetone	<10.0	ug/Kg		3/29/2022	14:07
Benzene	<2.00	ug/Kg		3/29/2022	14:07
Bromochloromethane	<5.00	ug/Kg		3/29/2022	14:07
Bromodichloromethane	<2.00	ug/Kg		3/29/2022	14:07
Bromoform	<5.00	ug/Kg		3/29/2022	14:07
Bromomethane	<2.00	ug/Kg		3/29/2022	14:07
Carbon disulfide	<2.00	ug/Kg		3/29/2022	14:07
Carbon Tetrachloride	<2.00	ug/Kg		3/29/2022	14:07
Chlorobenzene	<2.00	ug/Kg		3/29/2022	14:07

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: Battery Brick

Lab Project ID: 221212

Matrix: Solid

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
Chloroethane	<2.00	ug/Kg		3/29/2022	14:07
Chloroform	<2.00	ug/Kg		3/29/2022	14:07
Chloromethane	<2.00	ug/Kg		3/29/2022	14:07
cis-1,2-Dichloroethene	<2.00	ug/Kg		3/29/2022	14:07
cis-1,3-Dichloropropene	<2.00	ug/Kg		3/29/2022	14:07
Cyclohexane	<10.0	ug/Kg		3/29/2022	14:07
Dibromochloromethane	<2.00	ug/Kg		3/29/2022	14:07
Dichlorodifluoromethane	<2.00	ug/Kg		3/29/2022	14:07
Ethylbenzene	<2.00	ug/Kg		3/29/2022	14:07
Freon 113	<2.00	ug/Kg		3/29/2022	14:07
Isopropylbenzene	<2.00	ug/Kg		3/29/2022	14:07
m,p-Xylene	<2.00	ug/Kg		3/29/2022	14:07
Methyl acetate	<2.00	ug/Kg		3/29/2022	14:07
Methyl tert-butyl Ether	<2.00	ug/Kg		3/29/2022	14:07
Methylcyclohexane	<2.00	ug/Kg		3/29/2022	14:07
Methylene chloride	<5.00	ug/Kg		3/29/2022	14:07
o-Xylene	<2.00	ug/Kg		3/29/2022	14:07
Styrene	<5.00	ug/Kg		3/29/2022	14:07
Tetrachloroethene	<2.00	ug/Kg		3/29/2022	14:07
Toluene	<2.00	ug/Kg		3/29/2022	14:07
trans-1,2-Dichloroethene	<2.00	ug/Kg		3/29/2022	14:07
trans-1,3-Dichloropropene	<2.00	ug/Kg		3/29/2022	14:07
Trichloroethene	<2.00	ug/Kg		3/29/2022	14:07
Trichlorofluoromethane	<2.00	ug/Kg		3/29/2022	14:07
Vinyl chloride	<2.00	ug/Kg		3/29/2022	14:07

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.

Project Reference: Battery Brick

Lab Project ID: 221212

Matrix: Solid

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**124**	74.7 - 140		3/29/2022 14:07
4-Bromofluorobenzene	**94.2**	68 - 130		3/29/2022 14:07
Pentafluorobenzene	**116**	70.3 - 140		3/29/2022 14:07
Toluene-D8	**122**	69 - 138		3/29/2022 14:07

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z08065.D

QC Batch ID: voas220329

QC Number: Blk 1

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.
Project Reference: Battery Brick
Lab Project ID: 221212
Matrix: Solid

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,1,1-Trichloroethane	20.0	ug/Kg	21.4	107	70.9 - 135		3/29/2022
1,1,2,2-Tetrachloroethane	20.0	ug/Kg	19.5	97.3	31.6 - 154		3/29/2022
1,1,2-Trichloroethane	20.0	ug/Kg	21.3	107	62 - 132		3/29/2022
1,1-Dichloroethane	20.0	ug/Kg	21.0	105	73 - 128		3/29/2022
1,1-Dichloroethene	20.0	ug/Kg	19.9	99.6	61.7 - 119		3/29/2022
1,2-Dichlorobenzene	20.0	ug/Kg	18.8	94.1	61 - 118		3/29/2022
1,2-Dichloroethane	20.0	ug/Kg	22.0	110	73.4 - 123		3/29/2022
1,2-Dichloropropane	20.0	ug/Kg	21.3	107	71.3 - 123		3/29/2022
1,3-Dichlorobenzene	20.0	ug/Kg	18.2	91.2	68.7 - 112		3/29/2022
1,4-Dichlorobenzene	20.0	ug/Kg	18.3	91.6	66.9 - 113		3/29/2022
Benzene	20.0	ug/Kg	22.2	111	77.8 - 119		3/29/2022
Bromodichloromethane	20.0	ug/Kg	21.5	108	65.7 - 125		3/29/2022
Bromoform	20.0	ug/Kg	18.5	92.5	54.7 - 130		3/29/2022
Bromomethane	20.0	ug/Kg	16.5	82.7	44.6 - 167		3/29/2022
Carbon Tetrachloride	20.0	ug/Kg	21.2	106	61.8 - 138		3/29/2022
Chlorobenzene	20.0	ug/Kg	19.9	99.7	77.2 - 108		3/29/2022

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Report Prepared Wednesday, March 30, 2022

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.
Project Reference: Battery Brick
Lab Project ID: 221212
Matrix: Solid

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Chloroethane	20.0	ug/Kg	18.9	94.4	55.5 - 151		3/29/2022
Chloroform	20.0	ug/Kg	21.5	108	70.1 - 134		3/29/2022
Chloromethane	20.0	ug/Kg	15.3	76.6	42.4 - 168		3/29/2022
cis-1,3-Dichloropropene	20.0	ug/Kg	21.3	107	66.7 - 122		3/29/2022
Dibromochloromethane	20.0	ug/Kg	21.0	105	61.2 - 130		3/29/2022
Ethylbenzene	20.0	ug/Kg	19.4	97.0	71.6 - 112		3/29/2022
Methylene chloride	20.0	ug/Kg	20.2	101	38.2 - 155		3/29/2022
Tetrachloroethene	20.0	ug/Kg	21.7	109	61.4 - 137		3/29/2022
Toluene	20.0	ug/Kg	22.0	110	71.1 - 124		3/29/2022
trans-1,2-Dichloroethene	20.0	ug/Kg	20.8	104	67.3 - 127		3/29/2022
trans-1,3-Dichloropropene	20.0	ug/Kg	21.6	108	55 - 126		3/29/2022
Trichloroethene	20.0	ug/Kg	22.3	111	69.3 - 128		3/29/2022
Trichlorofluoromethane	20.0	ug/Kg	19.1	95.5	64 - 140		3/29/2022
Vinyl chloride	20.0	ug/Kg	16.3	81.4	51.2 - 160		3/29/2022

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Report Prepared Wednesday, March 30, 2022

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: Battery Brick

Lab Project ID: 221212

Matrix: Solid

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z08064.D

QC Number: LCS 1

QC Batch ID: voas220329

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Report Prepared Wednesday, March 30, 2022

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Battery Brick
Lab Project ID: 221212
Matrix: TCLP Fluid

TCLP Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1-Dichloroethene	<20.0	ug/L		3/29/2022	13:29
1,2-Dichloroethane	<20.0	ug/L		3/29/2022	13:29
2-Butanone	<100	ug/L		3/29/2022	13:29
Benzene	<20.0	ug/L		3/29/2022	13:29
Carbon Tetrachloride	<20.0	ug/L		3/29/2022	13:29
Chlorobenzene	<20.0	ug/L		3/29/2022	13:29
Chloroform	<20.0	ug/L		3/29/2022	13:29
Tetrachloroethene	<20.0	ug/L		3/29/2022	13:29
Trichloroethene	<20.0	ug/L		3/29/2022	13:29
Vinyl chloride	<20.0	ug/L		3/29/2022	13:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**125**	81.1 - 136		3/29/2022	13:29
4-Bromofluorobenzene	**103**	75.8 - 132		3/29/2022	13:29
Pentafluorobenzene	**112**	82 - 132		3/29/2022	13:29
Toluene-D8	**121**	64.6 - 137		3/29/2022	13:29

Method Reference(s): EPA 8260C
EPA 5030
Data File: z08063.D
QC Batch ID: voax220329
QC Number: Blk 1

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Report Prepared Wednesday, March 30, 2022

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.
Project Reference: Battery Brick
Lab Project ID: 221212
Matrix: TCLP Fluid

TCLP Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,1-Dichloroethene	20.0	ug/L	20.1	100	65.5 - 116		3/29/2022
1,2-Dichloroethane	20.0	ug/L	21.7	109	78.3 - 122		3/29/2022
Benzene	20.0	ug/L	22.1	111	81.6 - 114		3/29/2022
Carbon Tetrachloride	20.0	ug/L	21.7	109	76.4 - 129		3/29/2022
Chlorobenzene	20.0	ug/L	19.7	98.7	77.2 - 106		3/29/2022
Chloroform	20.0	ug/L	21.2	106	84.5 - 122		3/29/2022
Tetrachloroethene	20.0	ug/L	21.4	107	64.4 - 130		3/29/2022
Trichloroethene	20.0	ug/L	22.4	112	73.4 - 122		3/29/2022
Vinyl chloride	20.0	ug/L	17.0	85.1	50.9 - 164		3/29/2022

Method Reference(s): EPA 8260C
EPA 5030
Data File: z08062.D
QC Number: LCS 1
QC Batch ID: voax220329

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Report Prepared *Wednesday, March 30, 2022*

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"H" = Denotes a parameter analyzed outside of holding time.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1082

CHAIN OF CUSTODY

PARADIGM

REPORT TO:	INVOICE TO:	
CLIENT: ~~PARADIGM~~ INVENTUM	CLIENT: SAME	LAB PROJECT ID: 221212
ADDRESS: 441 CARLISLE DR SUITE C	ADDRESS:	Quotation #:
CITY: HERNDON STATE: VA ZIP: 20170	CITY: STATE: ZIP:	
PHONE: 585-734-5255	PHONE:	Email: roxanne.birx@inventumeng.com
ATTN: ROXANNE BIRX	ATTN: JOHN BLACK	john.black@ " "

PROJECT REFERENCE
BATTERY BRICK

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs	TCL SVOCs	TCLP SVOCs	TCLP VOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER
3/22/22	15⁰⁰		X	BRICK-MULTI-03222022	SD	1	✓	✓	✓	✓		01A
3/22/22	15⁰⁰		X	BRICK-RED-03222022	SD	1	✓	✓	✓	✓		02A
3/22/22	15⁰⁰		X	BRICK-YELW-03222022	SD	1	✓	✓	✓	✓		03A

Turnaround Time		Report Supplements		
Availability contingent upon lab approval; additional fees may apply.				
Standard 5 day	☒	None Required	☐	None Required ☐
10 day	☐	Batch QC	☒	Basic EDD ☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD ☒
Rush 2 day	☐	Category B	☐	
Rush 1 day	☐			
Date Needed _____ please indicate date needed:		Other ☐ please indicate package needed:		Other EDD ☐ please indicate EDD needed :

ROXANNE BIRX 3/22/22 15⁰⁰ — Sampled By / Date/Time

[signature] 3/23/22 1246 — Relinquished By / Date/Time

[signature] 3/23/22 14:30 — Received By / Date/Time

[signature] 3/23/22 1625 — Received @ Lab By / Date/Time

3°C iced 3/23/22 16:12

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: Inventum **Completed by:** Molly Nail

Lab Project ID: 221212 **Date:** 3/23/22

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	☐	☑ 5035 5VOA	☐
Comments	Transfered 01 to 2-802 glass jars		
Transferred to method-compliant container	☑ ~~PB to 63~~ -01 ~~PB to 55~~ -02,03	☐	☐
Headspace (<1 mL)	☐	☑ ~~TCLP~~ VOA	☐
Comments	transferred 02,03 to 1000 ml amber glass		
Preservation	☐	☐	☑
Comments			
Chlorine Absent (<0.10 ppm per test strip)	☐	☐	☑
Comments			
Holding Time	☑	☐	☐
Comments			
Temperature	☑	☐	☐
Comments	3°C iced		
Compliant Sample Quantity/Type	☑	☐	☐
Comments			

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

Inventum Engineering, P.C.

For Lab Project ID

221322

Referencing

Battery Brick

Prepared

Tuesday, April 5, 2022

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Emily Farmer

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221322

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier:	Brick-Gray-03282022		
Lab Sample ID:	221322-01	**Date Sampled:**	3/28/2022 14:00
Matrix:	Solid	**Date Received**	3/29/2022

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 284	ug/Kg		3/30/2022 13:50
1,2,4,5-Tetrachlorobenzene	< 284	ug/Kg		3/30/2022 13:50
1,2,4-Trichlorobenzene	< 284	ug/Kg		3/30/2022 13:50
1,2-Dichlorobenzene	< 284	ug/Kg		3/30/2022 13:50
1,3-Dichlorobenzene	< 284	ug/Kg		3/30/2022 13:50
1,4-Dichlorobenzene	< 284	ug/Kg		3/30/2022 13:50
2,2-Oxybis (1-chloropropane)	< 284	ug/Kg		3/30/2022 13:50
2,3,4,6-Tetrachlorophenol	< 284	ug/Kg		3/30/2022 13:50
2,4,5-Trichlorophenol	< 284	ug/Kg		3/30/2022 13:50
2,4,6-Trichlorophenol	< 284	ug/Kg		3/30/2022 13:50
2,4-Dichlorophenol	< 284	ug/Kg		3/30/2022 13:50
2,4-Dimethylphenol	< 284	ug/Kg		3/30/2022 13:50
2,4-Dinitrophenol	< 1140	ug/Kg		3/30/2022 13:50
2,4-Dinitrotoluene	< 284	ug/Kg		3/30/2022 13:50
2,6-Dinitrotoluene	< 284	ug/Kg		3/30/2022 13:50
2-Chloronaphthalene	< 284	ug/Kg		3/30/2022 13:50
2-Chlorophenol	< 284	ug/Kg		3/30/2022 13:50
2-Methylnapthalene	< 284	ug/Kg		3/30/2022 13:50
2-Methylphenol	< 284	ug/Kg		3/30/2022 13:50
2-Nitroaniline	< 284	ug/Kg		3/30/2022 13:50
2-Nitrophenol	< 284	ug/Kg		3/30/2022 13:50
3&4-Methylphenol	< 284	ug/Kg		3/30/2022 13:50
3,3'-Dichlorobenzidine	< 284	ug/Kg		3/30/2022 13:50
3-Nitroaniline	< 284	ug/Kg		3/30/2022 13:50
4,6-Dinitro-2-methylphenol	< 380	ug/Kg		3/30/2022 13:50
4-Bromophenyl phenyl ether	< 284	ug/Kg		3/30/2022 13:50
4-Chloro-3-methylphenol	< 284	ug/Kg		3/30/2022 13:50
4-Chloroaniline	< 284	ug/Kg		3/30/2022 13:50

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221322

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier: Brick-Gray-03282022
Lab Sample ID: 221322-01 **Date Sampled:** 3/28/2022 14:00
Matrix: Solid **Date Received** 3/29/2022

4-Chlorophenyl phenyl ether	< 284	ug/Kg	3/30/2022	13:50
4-Nitroaniline	< 284	ug/Kg	3/30/2022	13:50
4-Nitrophenol	< 284	ug/Kg	3/30/2022	13:50
Acenaphthene	< 284	ug/Kg	3/30/2022	13:50
Acenaphthylene	< 284	ug/Kg	3/30/2022	13:50
Acetophenone	< 284	ug/Kg	3/30/2022	13:50
Anthracene	< 284	ug/Kg	3/30/2022	13:50
Atrazine	< 284	ug/Kg	3/30/2022	13:50
Benzaldehyde	< 284	ug/Kg	3/30/2022	13:50
Benzo (a) anthracene	< 284	ug/Kg	3/30/2022	13:50
Benzo (a) pyrene	< 284	ug/Kg	3/30/2022	13:50
Benzo (b) fluoranthene	< 284	ug/Kg	3/30/2022	13:50
Benzo (g,h,i) perylene	< 284	ug/Kg	3/30/2022	13:50
Benzo (k) fluoranthene	< 284	ug/Kg	3/30/2022	13:50
Bis (2-chloroethoxy) methane	< 284	ug/Kg	3/30/2022	13:50
Bis (2-chloroethyl) ether	< 284	ug/Kg	3/30/2022	13:50
Bis (2-ethylhexyl) phthalate	< 284	ug/Kg	3/30/2022	13:50
Butylbenzylphthalate	< 284	ug/Kg	3/30/2022	13:50
Caprolactam	< 284	ug/Kg	3/30/2022	13:50
Carbazole	< 284	ug/Kg	3/30/2022	13:50
Chrysene	< 284	ug/Kg	3/30/2022	13:50
Dibenz (a,h) anthracene	< 284	ug/Kg	3/30/2022	13:50
Dibenzofuran	< 284	ug/Kg	3/30/2022	13:50
Diethyl phthalate	< 284	ug/Kg	3/30/2022	13:50
Dimethyl phthalate	< 284	ug/Kg	3/30/2022	13:50
Di-n-butyl phthalate	< 284	ug/Kg	3/30/2022	13:50
Di-n-octylphthalate	< 284	ug/Kg	3/30/2022	13:50
Fluoranthene	< 284	ug/Kg	3/30/2022	13:50
Fluorene	< 284	ug/Kg	3/30/2022	13:50
Hexachlorobenzene	< 284	ug/Kg	3/30/2022	13:50

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221322

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier: Brick-Gray-03282022
Lab Sample ID: 221322-01 **Date Sampled:** 3/28/2022 14:00
Matrix: Solid **Date Received** 3/29/2022

Hexachlorobutadiene	< 284	ug/Kg		3/30/2022 13:50
Hexachlorocyclopentadiene	< 1140	ug/Kg		3/30/2022 13:50
Hexachloroethane	< 284	ug/Kg		3/30/2022 13:50
Indeno (1,2,3-cd) pyrene	< 284	ug/Kg		3/30/2022 13:50
Isophorone	< 284	ug/Kg		3/30/2022 13:50
Naphthalene	< 284	ug/Kg		3/30/2022 13:50
Nitrobenzene	< 284	ug/Kg		3/30/2022 13:50
N-Nitroso-di-n-propylamine	< 284	ug/Kg		3/30/2022 13:50
N-Nitrosodiphenylamine	< 284	ug/Kg		3/30/2022 13:50
Pentachlorophenol	< 568	ug/Kg		3/30/2022 13:50
Phenanthrene	< 284	ug/Kg		3/30/2022 13:50
Phenol	< 284	ug/Kg		3/30/2022 13:50
Pyrene	< 284	ug/Kg		3/30/2022 13:50

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**56.9**	35.4 - 92.4		3/30/2022 13:50
2-Fluorobiphenyl	**52.5**	39.6 - 84.4		3/30/2022 13:50
2-Fluorophenol	**57.2**	35.5 - 78.9		3/30/2022 13:50
Nitrobenzene-d5	**45.2**	36.5 - 78.2		3/30/2022 13:50
Phenol-d5	**58.1**	37.1 - 78.3		3/30/2022 13:50
Terphenyl-d14	**56.4**	42.3 - 103		3/30/2022 13:50

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 3/30/2022
Data File: B60764.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.00	ug/Kg		4/4/2022 13:36
1,1,2,2-Tetrachloroethane	< 8.00	ug/Kg		4/4/2022 13:36
1,1,2-Trichloroethane	< 8.00	ug/Kg		4/4/2022 13:36
1,1-Dichloroethane	< 8.00	ug/Kg		4/4/2022 13:36
1,1-Dichloroethene	< 8.00	ug/Kg		4/4/2022 13:36

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221322

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier: Brick-Gray-03282022
Lab Sample ID: 221322-01 **Date Sampled:** 3/28/2022 14:00
Matrix: Solid **Date Received** 3/29/2022

1,2,3-Trichlorobenzene	< 20.0	ug/Kg	4/4/2022 13:36
1,2,4-Trichlorobenzene	< 20.0	ug/Kg	4/4/2022 13:36
1,2-Dibromo-3-Chloropropane	< 40.0	ug/Kg	4/4/2022 13:36
1,2-Dibromoethane	< 8.00	ug/Kg	4/4/2022 13:36
1,2-Dichlorobenzene	< 8.00	ug/Kg	4/4/2022 13:36
1,2-Dichloroethane	< 8.00	ug/Kg	4/4/2022 13:36
1,2-Dichloropropane	< 8.00	ug/Kg	4/4/2022 13:36
1,3-Dichlorobenzene	< 8.00	ug/Kg	4/4/2022 13:36
1,4-Dichlorobenzene	< 8.00	ug/Kg	4/4/2022 13:36
1,4-Dioxane	< 40.0	ug/Kg	4/4/2022 13:36
2-Butanone	< 40.0	ug/Kg	4/4/2022 13:36
2-Hexanone	< 20.0	ug/Kg	4/4/2022 13:36
4-Methyl-2-pentanone	< 20.0	ug/Kg	4/4/2022 13:36
Acetone	< 40.0	ug/Kg	4/4/2022 13:36
Benzene	< 8.00	ug/Kg	4/4/2022 13:36
Bromochloromethane	< 20.0	ug/Kg	4/4/2022 13:36
Bromodichloromethane	< 8.00	ug/Kg	4/4/2022 13:36
Bromoform	< 20.0	ug/Kg	4/4/2022 13:36
Bromomethane	< 8.00	ug/Kg	4/4/2022 13:36
Carbon disulfide	< 8.00	ug/Kg	4/4/2022 13:36
Carbon Tetrachloride	< 8.00	ug/Kg	4/4/2022 13:36
Chlorobenzene	< 8.00	ug/Kg	4/4/2022 13:36
Chloroethane	< 8.00	ug/Kg	4/4/2022 13:36
Chloroform	< 8.00	ug/Kg	4/4/2022 13:36
Chloromethane	< 8.00	ug/Kg	4/4/2022 13:36
cis-1,2-Dichloroethene	< 8.00	ug/Kg	4/4/2022 13:36
cis-1,3-Dichloropropene	< 8.00	ug/Kg	4/4/2022 13:36
Cyclohexane	< 40.0	ug/Kg	4/4/2022 13:36
Dibromochloromethane	< 8.00	ug/Kg	4/4/2022 13:36
Dichlorodifluoromethane	< 8.00	ug/Kg	4/4/2022 13:36

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221322

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier: Brick-Gray-03282022
Lab Sample ID: 221322-01 **Date Sampled:** 3/28/2022 14:00
Matrix: Solid **Date Received** 3/29/2022

Ethylbenzene	< 8.00	ug/Kg		4/4/2022 13:36
Freon 113	< 8.00	ug/Kg		4/4/2022 13:36
Isopropylbenzene	< 8.00	ug/Kg		4/4/2022 13:36
m,p-Xylene	< 8.00	ug/Kg		4/4/2022 13:36
Methyl acetate	< 8.00	ug/Kg		4/4/2022 13:36
Methyl tert-butyl Ether	< 8.00	ug/Kg		4/4/2022 13:36
Methylcyclohexane	< 8.00	ug/Kg		4/4/2022 13:36
Methylene chloride	< 20.0	ug/Kg		4/4/2022 13:36
o-Xylene	< 8.00	ug/Kg		4/4/2022 13:36
Styrene	< 20.0	ug/Kg		4/4/2022 13:36
Tetrachloroethene	< 8.00	ug/Kg		4/4/2022 13:36
Toluene	< 8.00	ug/Kg		4/4/2022 13:36
trans-1,2-Dichloroethene	< 8.00	ug/Kg		4/4/2022 13:36
trans-1,3-Dichloropropene	< 8.00	ug/Kg		4/4/2022 13:36
Trichloroethene	< 8.00	ug/Kg		4/4/2022 13:36
Trichlorofluoromethane	< 8.00	ug/Kg		4/4/2022 13:36
Vinyl chloride	< 8.00	ug/Kg		4/4/2022 13:36

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**125**	74.7 - 140		4/4/2022 13:36
4-Bromofluorobenzene	**96.5**	68 - 130		4/4/2022 13:36
Pentafluorobenzene	**122**	70.3 - 140		4/4/2022 13:36
Toluene-D8	**124**	69 - 138		4/4/2022 13:36

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z08191.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221322

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier:	Brick-Gray-03282022		
Lab Sample ID:	221322-01A	**Date Sampled:** 3/28/2022	14:00
Matrix:	TCLP Extract	**Date Received** 3/29/2022	

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		4/1/2022 18:49
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		4/1/2022 18:49
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		4/1/2022 18:49
2,4-Dinitrotoluene	< 40.0	ug/L	130		4/1/2022 18:49
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		4/1/2022 18:49
Hexachlorobenzene	< 40.0	ug/L	130		4/1/2022 18:49
Hexachlorobutadiene	< 40.0	ug/L	500		4/1/2022 18:49
Hexachloroethane	< 40.0	ug/L	3000		4/1/2022 18:49
Nitrobenzene	< 40.0	ug/L	2000		4/1/2022 18:49
Pentachlorophenol	< 80.0	ug/L	100000		4/1/2022 18:49
Pyridine	< 40.0	ug/L	5000		4/1/2022 18:49

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**88.9**	29.6 - 139		4/1/2022 18:49
2-Fluorobiphenyl	**65.8**	5 - 124		4/1/2022 18:49
2-Fluorophenol	**73.3**	10 - 122		4/1/2022 18:49
Nitrobenzene-d5	**71.8**	28.7 - 119		4/1/2022 18:49
Phenol-d5	**66.9**	10 - 115		4/1/2022 18:49
Terphenyl-d14	**77.8**	32.2 - 142		4/1/2022 18:49

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 4/1/2022
Data File: B60808.D

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		4/1/2022 15:32
1,2-Dichloroethane	< 20.0	ug/L	500		4/1/2022 15:32
2-Butanone	< 100	ug/L	200000		4/1/2022 15:32
Benzene	< 20.0	ug/L	500		4/1/2022 15:32

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 221322

Client: **Inventum Engineering, P.C.**

Project Reference: Battery Brick

Sample Identifier: Brick-Gray-03282022
Lab Sample ID: 221322-01A **Date Sampled:** 3/28/2022 14:00
Matrix: TCLP Extract **Date Received** 3/29/2022

Carbon Tetrachloride	< 20.0	ug/L	500		4/1/2022 15:32
Chlorobenzene	< 20.0	ug/L	100000		4/1/2022 15:32
Chloroform	< 20.0	ug/L	6000		4/1/2022 15:32
Tetrachloroethene	< 20.0	ug/L	700		4/1/2022 15:32
Trichloroethene	< 20.0	ug/L	500		4/1/2022 15:32
Vinyl chloride	< 20.0	ug/L	200		4/1/2022 15:32

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**131**	81.1 - 136		4/1/2022 15:32
4-Bromofluorobenzene	**104**	75.8 - 132		4/1/2022 15:32
Pentafluorobenzene	**129**	82 - 132		4/1/2022 15:32
Toluene-D8	**132**	64.6 - 137		4/1/2022 15:32

Method Reference(s): EPA 8260C
EPA 1311 / 5030C
Data File: z08162.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"H" = Denotes a parameter analyzed outside of holding time.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1062

PARADIGM
ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

REPORT TO:			INVOICE TO:		
CLIENT: Inventumengineering			CLIENT: SAME		LAB PROJECT ID: 221322
ADDRESS: 441 Carlisle Dr. Suite C			ADDRESS:		
CITY: Herndon	STATE: VA	ZIP: 20170	CITY:	STATE: ZIP:	Quotation #:
PHONE: (716) 553-5129			PHONE:		Email:
ATTN: Peter.Zaffram@inventumeng.com			ATTN: JOHN BLACK		

PROJECT REFERENCE

Battery Brick

Matrix Codes:

AQ - Aqueous Liquid; **NQ** - Non-Aqueous Liquid; **WA** - Water; **WG** - Groundwater; **DW** - Drinking Water; **WW** - Wastewater; **SO** - Soil; **SL** - Sludge; **SD** - Solid; **PT** - Paint; **WP** - Wipe; **CK** - Caulk; **OL** - Oil; **AR** - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCLP 8260/8270	TCL 8260/8270	REMARKS	PARADIGM LAB SAMPLE NUMBER
3/28/2022	1460			Brick-Gray-03282022	SD	1				01A

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☑	None Required	☐	None Required	☐
10 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☐		
Rush 1 day	☐				
Date Needed _____ please indicate date needed:		Other ☐ please indicate package needed:		Other EDD ☐ please indicate EDD needed :	

Peter Zaffram — Sampled By — 03/28/2022 — Date/Time

Relinquished By — 03/28/2022 14:20 — Date/Time

Received By: Brian Zank — 3/28/22 16:00 — Date/Time

Received @ Lab By: Molly Ford — 3/29/22 1558 — Date/Time

5°C iced 3/29/22 15:40

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: Inventum **Completed by:** Molly Nail

Lab Project ID: 221322 **Date:** 3/29/22

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	☐	☑ ~~5~~ 5035	☐
Comments	Sample received in plastic bag transferred to 1000ml-wide mouth glass jar		
Transferred to method-compliant container	☑ PB to MG	☐	☐
Headspace (<1 mL)	☐	☑ ~~TCLP~~ VOA	☑
Comments			
Preservation	☐	☐	☑
Comments			
Chlorine Absent (<0.10 ppm per test strip)	☐	☐	☑
Comments			
Holding Time	☑	☐	☐
Comments			
Temperature	☑	☐	☐
Comments	5°C iced		
Compliant Sample Quantity/Type	☑	☐	☐
Comments			

Enclosure

Quantities Estimate

Coal Yard Tunnel Volume Estimate

R. Birx, 9/15/2022

Notes and Assumptions:

Measurements taken with Brandon Mikolen (GES/Honeywell)
Tunnel length 760' measured (Google)
OSC marked 602' elevation on north end of tunnel for fill depth
"Length 1" is the northern sloped end below 602' elevation and "Length 2" is the remaining length of tunnel
All amounts have been rounded to two significant figures
A concrete density has been assumed at 150 lb/ft3

Tunnel Volume	
Volume (ft3)	47000
Volume (CY)	1800
Tunnel Length 1	
Length (ft)	40
Width (ft)	8.0
Height (ft)	7.0
Volume (sloped) (ft3)	1100
Volume (CY)	41
Concrete density (lb/ft3)	150
Weight (lbs)	170000
Weight (ton)	85
Rounded weight (ton)	90
Tunnel Length 2	
Length (ft)	720
Width (ft)	8.0
Height (ft)	8.0
Volume (rectangular) (ft3)	46000
Volume (CY)	1700
Concrete density (lb/ft3)	150
Weight (lbs)	6900000
Weight (tons)	3450
Rounded Weight (tons)	3500
Total weight (ton)	3590
Total Rounded Weight (ton)	3600
Total CY	1800
Fill Balance	
Concrete Roof	
Length (ft)	760
Width (ft)	8.0
Thickness (ft)	1.2
Volume (ft3)	7300

Volume (CY)	270
% of backfill from Roof (Assuming 50% swell due to crushing)	23

Concrete from Stack

Concrete Pile from Stack Demolition (ft3)	31000
Concrete Pile from Stack Demolition (CY)	1200
% backfill from stack	67

Battery Brick

Volume of brick (CY)	330
% backfill from brick	11

Overburden Replacement

Notes and assumptions:

The top of the Coal Yard Tunnel roof varied from 0-10 feet BGS

An average depth of 8 feet BGS was selected for estimating depth to tunnel roof

The overburden was excavated at approximately 1:3 slope

Slope dimensions are approximately 9:27 feet on the east side and 75% as much on the west

Eastern Side Excavation

Volume (ft3)	93000
Volume (CY)	3500

Material Excavated to 8' BGS to Access Roof

Volume (ft3)	49000
Volume (CY)	1900

Western Side Excavation

Volume (ft3)	70000
Volume (CY)	2700

Total Overburden to be Replaced

Volume (ft3)	220000
Volume (CY)	8100

Appendix E – Asbestos Abatement Visual Clearance

PROJECT MONITOR FINAL INSPECTION

Client: O.S.C. Address: 3875 River Rd

Job#: _____ Date: 10-28-22

Project monitor visual inspection was preformed for completeness of abatement as per New York State ICR 56 regulations dated January 11, 2006. The inspection was of those materials that were in the contractor's scope of work to be removed.

PROJECT MONITOR INFORMATION:

Project Monitor NYSDOL Certification #: 11-07604

Project Monitor (signature): _____

Project Monitor (print name): Kevin Akromas

ASBESTOS CONTRACTOR INFORMATION:

Asbestos Contractor: O.S.C.

Asbestos Supervisor: Matt Rearden

PROJECT INFORMATION:

	YES	NO	N/A
Was a survey or report available	✓		
Contractors daily log book available/signed	✓		
Proceed with Final air samples as per ICR 56	✓		

ACM removed/notes:

All ACM debris from tunnel removed
& per Scope of Work

Appendix F – Daily Inspections

Inventum Engineering, PC

CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 7/25/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1), laborer (2-3)
56 Services	Asbestos Monitoring	None
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

OSC begins welding 3" HDPE conveyance pipe to dewater tunnel and discharge to POTW.
The conveyance pipe will run along the former conveyor location in the coal yard, just south of Mixing Pad.

OSC demolishes Building ACM-38, the Tunnel Electrical Building, at the north end of the tunnel in preparation for accessing tunnel.

By week end, the HDPE conveyance pipe has been completely fused.
Tunnel dewatering to begin Monday 8/1/2022.

Inventum Engineering, 441 Carlisle Drive, Suite C, Herndon VA, 20170
Office: 571.752.6559

Inventum Engineering, PC

CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 8/1/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1), laborer (2-3)
56 Services	Asbestos Monitoring	None
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 8/1:

Begin dewatering tunnel, pumping at 75 GPM for approximatley 6.5 hours.

Tuesday 8/2:

Continue dewatering tunnel.

Operator begins exposing north side of tunnel.

Tunnel width is 8 feet.

R. Birx (Inventum) checks flow meter in POTW outfall; flowrate is reading 0 GPM.

OSC adjusts tunnel discharge pipe so meter sensor can read flow.

Wednesday 8/3:

Continue dewatering tunnel.

OSC continues exposing tunnel roof from north end working south, about 80' exposed.

Thursday 8/4:

Continue dewatering tunnel.

Continue exposing tunnel roof.

Overburden being staged on east and west sides of tunnel on a 1:3 slope.

At aboout 80' - 100' feet a green sheen/potential NAPL is observed in the perched groundwater above the tunnel roof.

The observed NAPL volume is small/trace, however additional treatment units are mobilized to area.

Water treatment train: Tunnel, mixing pad with boom and silt fence, GAC unit, bag filters, discharge to POTW. NAPL contained on absorbent boom, no additional NAPL observed.

Friday 8/5:

Continue dewatering tunnel.

Continue exposing top of tunnel roof.

Inventum Engineering, PC

CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 8/8/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1), laborer (2-3)
56 Services	Asbestos Monitoring	None
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 8/8:

Tunnel dewatering and roof exposure continues.

Approximately 225 feet have been exposed, to northern most tunnel access point.

M. Reardon drills top of tunnel roof to estimate thickness - 14 inches.

Note that groundwater seeping through clay-fill lense is approximately 10 feet BGS.

Tuesday 8/9 - Friday 8/12:

Dewatering and roof exposure continues. Overburden management continues.

Inventum Engineering, PC

CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 8/15/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1), laborer (2-3)
56 Services	Asbestos Monitoring	Inspector (1)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 8/15 - Wednesday 8/17:

Dewatering and roof exposure continues.

Overburden excavation is approaching second tunnel access point, Railcar Shaker Access - 570 feet.

Tunnel water treatment continues through Mixing Pad system.

P. Zaffram samples concrete removed from tunnel roof for TCLP and TCL VOCs and SVOCs.

Thursday 8/18:

Dewatering and overburden excavation continues.

Friday 8/19:

Dewatering and overburden excavation continues.

Site visit with Rob Barr (56 Services) and DOL to assess tunnel ACM abatement plan.

Inventum Engineering, PC

CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 8/22/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1), laborer (2-3)
56 Services	Asbestos Monitoring	Project & Air Monitor (1)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 8/22:

Dewatering continues.

Grading excavated overburden.

OSC demolishes Building ACM-36, the Tunnel Conveyor Building. Concrete is thick with extensive rebar where tunnel meets building.

Concrete slabs able to be removed are moved to concrete staging area in northeast area of site.

Concrete debris fallen in tunnel during demolition will be removed with ACM debris and staged in mixing pad.

Tuesday 8/23 - Thursday 8/25:

Complete building ACM-36 demolition.

Continue dewatering and overburden management.

Friday 8/26:

Continue dewatering and overburden management.

Roof is exposed down to Railcar Shaker access point.

Concrete saw mobilized to site to begin removing roof next week.

Inventum Engineering, PC

CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 8/29/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1), laborer (2-3)
56 Services	Asbestos Monitoring	Project & Air Monitor (1)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 8/29:

Complete first saw cut in concrete roof.

Begin removing roof slab and moving to concrete staging area.

Begin removing tunnel ACM debris and staging in eastern half of mixing pad.

Tuesday 8/30 - Wednesday 8/31:

Remove additional roof section.

Remove conveyor and wash steel.

Remove ACM debris and 4-inch diameter utility pipe wrapping.

Thursday 9/1 - Friday 9/2:

Continue sawcutting and removing roof, removing conveyor, and ACM abatement.

Remove abated utility piping.

Inventum Engineering, PC

CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 9/5/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1), laborer (2-3)
56 Services	Asbestos Monitoring	Project & Air Monitor (1)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 9/5 - Thursday 9/8:

Continue dewatering, concrete roof removal, conveyor removal and management, ACM abatement.
Note that rebar is extensive and poses significant hazards.
Once roof slabs are removed, rebar is trimmed back to concrete walls.

Friday 9/9:

Continue dewatering, concrete roof removal, conveyor removal and management, ACM abatement.
Concrete roof removal, conveyor removal and management, ACM abatement completed to 400 feet.

From 390 to 450 feet, a section of ACM-wrapped piping was discovered to contain tar-like residuals.
Residuals are highly viscous, almost solid.
Piping contained approximatley 5 cubic feet of residuals. All piping was staged on a concrete pad within the
Tar Management area and will be disposed with other grossly contaminated steel by microencapsulation.
The piping was removed up to where it elbows west out of the tunnel. Pipe ends were capped and sealed.
Pipe location in the western tunnel wall was located with GPS.
The area around the piping and the tunnel floor was inspected, no residuals observed.

Inventum Engineering, PC

CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 9/12/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1), laborer (2-3)
56 Services	Asbestos Monitoring	Project & Air Monitor (1)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 9/12:

Completed removing piping with residuals.

The area around the piping and the tunnel floor was inspected, no residuals observed.

All piping staged in Tar Management area and pipe ends taped off.

Tuesday 9/13 - Wednesday 9/14:

Concrete roof removed up to 570 feet.

Continue conveyor removal, ACM abatement.

Thursday 9/15:

Continue roof removal and abatement.

Inventum and GES measure tunnel dimensions for backfill estimate.

Note that backfill is estimated to be placed below 602' elevation.

Friday 9/16:

Continue abatement.

Inventum Engineering, 441 Carlisle Drive, Suite C, Herndon VA, 20170
Office: 571.752.6559

Inventum Engineering, PC

CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 9/19/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1), laborer (2-3)
56 Services	Asbestos Monitoring	Project & Air Monitor (1)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 9/19 - Friday 9/23:

Continue managing water in tunnel.

Continue ACM abatement, conveyor removal.

Abatement and removal activities have progressed 700 of 760 feet in tunnel.

Inventum Engineering, 441 Carlisle Drive, Suite C, Herndon VA, 20170
Office: 571.752.6559

Inventum Engineering, PC

CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 9/26/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1), laborer (2-3)
56 Services	Asbestos Monitoring	Project & Air Monitor (1)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 9/26 - Friday 10/1:

Heavy rains over weekend 9/24-9/25 combined with groundwater inflow requires up to two days of dewatering.

Breeze was brought into tunnel from surface runoff of sloped overburden and mixed with ACM debris.

The remaining 60 feet of roof and conveyor were removed.

All the ACM debris was abated and staged in mixing pad.

Operator demolishes thick concrete at intersection of coal yard tunnel and southernmost tunnel pit.

Continues ACM debris removal from pit.

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CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 10/3/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1), laborer (2-3)
56 Services	Asbestos Monitoring	Project & Air Monitor (1)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 10/3 - Wednesday 10/5:

Complete ACM abatement at southern end of tunnel.

Pump and treat tunnel water through mixing pad system to POTW outfall.

Tuesday 10/6 - Friday 10/7

Pump and treat tunnel water through mixing pad system to POTW outfall.

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CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 10/10/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1), laborer (2-3)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 10/10 - Friday 10/14

Pump and treat tunnel water through mixing pad system to POTW outfall.

Ship ACM contaminated debris to Modern Landfill.

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Office: 571.752.6559

Inventum Engineering, PC

CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 10/17/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1), laborer (2-3)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 10/17 - Friday 10/21

Pump and treat tunnel water through mixing pad system to POTW outfall.

Ship ACM contaminated debris to Modern Landfill.

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CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 10/24/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1), laborer (2-3)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 10/24 - Friday 10/28

Pump and treat tunnel water through mixing pad system to POTW outfall.

Complete shipment of ACM contaminated debris to Modern Landfill.

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CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 10/31/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1), laborer (2-3)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 10/31- Friday 11/4

Pump and treat tunnel water through mixing pad system to POTW outfall.

Complete shipment of ACM contaminated debris to Modern Landfill.

Tunnel is cleared of all ACM debris. The elevation of 602 feet is marked on tunnel walls.

Demolish upper portion of tunnel walls above 602 feet msl.

Dewater and decontaminate Mixing Pad.

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CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 11/7/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 11/7- Friday 11/11

Place and compact tunnel backfill in lifts, starting at north end and working south.

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CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 11/14/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1), laborer (2-3)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 11/14- Friday 11/18

Place and compact tunnel backfill in lifts, starting at north end and working south.

Place corrugated HDPE collection sump at southern end of tunnel.

Complete backfill of Coal Yard Tunnel.

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CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 11/21/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 11/21- Wednesday 11/23 (Site Closed 11/24 and 11/25 for Thanksgiving Holiday)

Replace, grade, and compact overburden over backfilled tunnel.

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Office: 571.752.6559

Inventum Engineering, PC

CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 11/28/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 11/28 - Friday 12/2

Replace, grade, and compact overburden over backfilled tunnel.

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CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 12/5/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 12/5 - Friday 12/9

Replace, grade, and compact overburden over backfilled tunnel.

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Inventum Engineering, PC

CONSTRUCTION DAILY LOG

PROJECT DETAILS

Project Name:	Riverview Innovation & Technology Campus, Inc (RITC)
Location:	3875 River Road, Tonawanda, New York 14216
Activity:	Coal Yard Tunnel Closure
Report Date(s):	Week of 12/12/2022
Report by:	Roxanne Birx
Workplan Reference:	Coal Yard Tunnel ACM Removal and Closure RITC #915353_06292022

LABOR FORCE

Company Name	Trade	Crew
OSC	Prime & Abatement Contractor	Supervisor (1), Operator (1)
Inventum	Engineering Consultant	Inspector (1)

DAILY WORK ACTIVITIES COMPLETED AND PLANNED

Monday 12/12 - Friday 12/16

Complete replacement of overburden.

Grade overburden.

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Office: 571.752.6559

Appendix G – Test Pit Log

Test Pit No. CYT-Pipes

Date: 04/19/2023 End Time: 3:00 PM Start Time: 1:05 PM

Notetaker Name: Peter Zaffram

Surface conditions: Test trench to investigate pipe penetration through Coal Yard Tunnel wall. West side, southerly section of CYT. North of mixing pad. East of center site road. Typical site fill, former coal and coke storage area.

ID	Distance from Start	Depth (In.)	Soil Type	Color	Consistency	Moisture	PiD	Evidence of Waste /Notes
NE0 to SW08	0 to 08	0 to 48	Dense Black Sandy Gravel	Black	Dense	Dry	-	
		48 to 72	Black Sandy Gravel with Brown Clay	Black with Brown	Dense	Medium	-	
		72 to 84	Brown Silty Clay	Brown	Stiff to Very Stiff	Medium	-	
		Note: The test trench started on the western wall of the CYT, to investigate 2 pipes discovered during CYT demolition. One 4-inch diameter pipe is approximately 12-inches long and cut on both ends. The pipe does not continue west. The second pipe is 6-inch diameter, approximately 8-feet long. The 6-inch pipe did not continue west.						4-inch pipe is approximately 1/8 full of tar-like residual. 6-inch pipe contains only fill.
		A second north to south orientated test trench was conducted to investigate for additional piping.						
NW0 to SE18		0 to 48	Dense Black Sandy Gravel	Black	Dense	Dry	-	
		48 to 72	Black Sandy Gravel with Brown Clay	Black with Brown	Dense	Medium	-	
		72 to 84	Brown Silty Clay	Brown	Stiff to Very Stiff	Medium	-	
		4-inch diameter iron pipe @ E0 @72-inches BGS						
		6-inch diameter iron pipe @ E0 to W08 @72-inches BGS						
		Note: Heavy groundwater infiltration at 72 to 84 inches deep. Excavation was stopped due to side wall instability. No additional piping was encountered.						

Appendix H – Laboratory Report

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Inventum Engineering, P.C.

For Lab Project ID

230266

Referencing

CYTJ NAPL

Prepared

Thursday, November 13, 2025

This project has been re-issued to include additional compounds, per client request.

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Emily Farmer

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 230266

Client: **Inventum Engineering, P.C.**

Project Reference: CYTJ NAPL

Sample Identifier:	CYJT-NAPL-01202023		
Lab Sample ID:	230266-01	**Date Sampled**	1/20/2023 11:15
Matrix:	Solid	**Date Received**	1/20/2023

Corrosivity as pH

Analyte	Result	Units	Qualifier	Date Analyzed
Corrosivity (as pH)	7.90 @ 21.0 C	S.U.		1/25/2023 14:30

Method Reference(s): EPA 9045D

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	**1.83**	mg/Kg		1/26/2023

Method Reference(s): EPA 9012B
Subcontractor ELAP ID: 10709

Ignitability

Analyte	Result	Units	Qualifier	Date Analyzed
Ignitability	No Burn	mm / sec		1/25/2023

Method Reference(s): EPA 1030

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0555**	mg/Kg		1/25/2023 12:01

Method Reference(s): EPA 7471B
Preparation Date: 1/24/2023
Data File: Hg230125A

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**965**	mg/Kg		1/25/2023 10:41
Antimony	< 2.91	mg/Kg		1/25/2023 10:41
Arsenic	**1.71**	mg/Kg		1/25/2023 10:41
Barium	**18.0**	mg/Kg		1/25/2023 10:41
Beryllium	< 0.243	mg/Kg		1/25/2023 10:41
Cadmium	**0.248**	mg/Kg		1/25/2023 10:41
Calcium	**2780**	mg/Kg		1/25/2023 10:41

Lab Project ID: 230266

Client: **Inventum Engineering, P.C.**

Project Reference: CYTJ NAPL

Sample Identifier: CYJT-NAPL-01202023
Lab Sample ID: 230266-01 **Date Sampled** 1/20/2023 11:15
Matrix: Solid **Date Received** 1/20/2023

Chromium	**2.99**	mg/Kg	1/25/2023 10:41
Cobalt	< 2.43	mg/Kg	1/25/2023 10:41
Copper	**8.31**	mg/Kg	1/25/2023 10:41
Iron	**5020**	mg/Kg	1/25/2023 10:41
Lead	**9.41**	mg/Kg	1/25/2023 10:41
Magnesium	**739**	mg/Kg	1/25/2023 10:41
Manganese	**59.3**	mg/Kg	1/25/2023 10:41
Nickel	**3.07**	mg/Kg	1/25/2023 10:41
Potassium	**237**	mg/Kg	1/25/2023 10:41
Selenium	< 0.971	mg/Kg	1/25/2023 10:41
Silver	< 0.485	mg/Kg	1/25/2023 10:41
Sodium	< 121	mg/Kg	1/25/2023 10:41
Thallium	< 1.21	mg/Kg	1/25/2023 10:41
Vanadium	**2.68**	mg/Kg	1/25/2023 10:41
Zinc	**18.2**	mg/Kg	1/25/2023 10:41

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 1/24/2023
Data File: 230125A

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.681	mg/Kg		1/25/2023 14:03
PCB-1221	< 0.681	mg/Kg		1/25/2023 14:03
PCB-1232	< 0.681	mg/Kg		1/25/2023 14:03
PCB-1242	< 0.681	mg/Kg		1/25/2023 14:03
PCB-1248	< 0.681	mg/Kg		1/25/2023 14:03
PCB-1254	< 0.681	mg/Kg		1/25/2023 14:03
PCB-1260	< 0.681	mg/Kg		1/25/2023 14:03
PCB-1262	< 0.681	mg/Kg		1/25/2023 14:03
PCB-1268	< 0.681	mg/Kg		1/25/2023 14:03

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 230266

Client: **Inventum Engineering, P.C.**

Project Reference: CYTJ NAPL

Sample Identifier: CYJT-NAPL-01202023
Lab Sample ID: 230266-01 **Date Sampled** 1/20/2023 11:15
Matrix: Solid **Date Received** 1/20/2023

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**33.5**	12.7 - 101		1/25/2023 14:03

Reporting limit elevated due to sample matrix
Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 1/24/2023

Reactive Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Cyanide	<1.0	mg/Kg		1/26/2023

Method Reference(s): EPA 7.3.3.2
Subcontractor ELAP ID: 10709
ELAP does not offer this test for approval as part of their laboratory certification program.
This sample has been reported as received.

Reactive Sulfide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Sulfide	<10	mg/Kg		1/26/2023

Method Reference(s): EPA 7.3.4.2
Subcontractor ELAP ID: 10709
ELAP does not offer this test for approval as part of their laboratory certification program.
This sample has been reported as received.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 27200	ug/Kg		1/27/2023 15:09
1,2,4,5-Tetrachlorobenzene	< 27200	ug/Kg		1/27/2023 15:09
1,2,4-Trichlorobenzene	< 27200	ug/Kg		1/27/2023 15:09
1,2-Dichlorobenzene	< 27200	ug/Kg		1/27/2023 15:09
1,3-Dichlorobenzene	< 27200	ug/Kg		1/27/2023 15:09
1,4-Dichlorobenzene	< 27200	ug/Kg		1/27/2023 15:09
2,2-Oxybis (1-chloropropane)	< 27200	ug/Kg		1/27/2023 15:09
2,3,4,6-Tetrachlorophenol	< 27200	ug/Kg		1/27/2023 15:09
2,4,5-Trichlorophenol	< 27200	ug/Kg		1/27/2023 15:09

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 230266

Client: **Inventum Engineering, P.C.**

Project Reference: CYTJ NAPL

Sample Identifier: CYJT-NAPL-01202023
Lab Sample ID: 230266-01 **Date Sampled** 1/20/2023 11:15
Matrix: Solid **Date Received** 1/20/2023

2,4,6-Trichlorophenol	< 27200	ug/Kg	1/27/2023	15:09
2,4-Dichlorophenol	< 27200	ug/Kg	1/27/2023	15:09
2,4-Dimethylphenol	< 27200	ug/Kg	1/27/2023	15:09
2,4-Dinitrophenol	< 109000	ug/Kg	1/27/2023	15:09
2,4-Dinitrotoluene	< 27200	ug/Kg	1/27/2023	15:09
2,6-Dinitrotoluene	< 27200	ug/Kg	1/27/2023	15:09
2-Chloronaphthalene	< 27200	ug/Kg	1/27/2023	15:09
2-Chlorophenol	< 27200	ug/Kg	1/27/2023	15:09
2-Methylnapthalene	< 27200	ug/Kg	1/27/2023	15:09
2-Methylphenol	< 27200	ug/Kg	1/27/2023	15:09
2-Nitroaniline	< 27200	ug/Kg	1/27/2023	15:09
2-Nitrophenol	< 27200	ug/Kg	1/27/2023	15:09
3&4-Methylphenol	< 27200	ug/Kg	1/27/2023	15:09
3,3'-Dichlorobenzidine	< 27200	ug/Kg	1/27/2023	15:09
3-Nitroaniline	< 27200	ug/Kg	1/27/2023	15:09
4,6-Dinitro-2-methylphenol	< 36400	ug/Kg	1/27/2023	15:09
4-Bromophenyl phenyl ether	< 27200	ug/Kg	1/27/2023	15:09
4-Chloro-3-methylphenol	< 27200	ug/Kg	1/27/2023	15:09
4-Chloroaniline	< 27200	ug/Kg	1/27/2023	15:09
4-Chlorophenyl phenyl ether	< 27200	ug/Kg	1/27/2023	15:09
4-Nitroaniline	< 27200	ug/Kg	1/27/2023	15:09
4-Nitrophenol	< 27200	ug/Kg	1/27/2023	15:09
Acenaphthene	**34400**	ug/Kg	1/27/2023	15:09
Acenaphthylene	< 27200	ug/Kg	1/27/2023	15:09
Acetophenone	< 27200	ug/Kg	1/27/2023	15:09
Anthracene	**29200**	ug/Kg	1/27/2023	15:09
Atrazine	< 27200	ug/Kg	1/27/2023	15:09
Benzaldehyde	< 27200	ug/Kg	1/27/2023	15:09
Benzo (a) anthracene	**53700**	ug/Kg	1/27/2023	15:09
Benzo (a) pyrene	**36900**	ug/Kg	1/27/2023	15:09

Sample Identifier: CYJT-NAPL-01202023
Lab Sample ID: 230266-01 **Date Sampled** 1/20/2023 11:15
Matrix: Solid **Date Received** 1/20/2023

Benzo (b) fluoranthene	**35800**	ug/Kg	1/27/2023	15:09
Benzo (g,h,i) perylene	< 27200	ug/Kg	1/27/2023	15:09
Benzo (k) fluoranthene	< 27200	ug/Kg	1/27/2023	15:09
Bis (2-chloroethoxy) methane	< 27200	ug/Kg	1/27/2023	15:09
Bis (2-chloroethyl) ether	< 27200	ug/Kg	1/27/2023	15:09
Bis (2-ethylhexyl) phthalate	< 27200	ug/Kg	1/27/2023	15:09
Butylbenzylphthalate	< 27200	ug/Kg	1/27/2023	15:09
Caprolactam	< 27200	ug/Kg	1/27/2023	15:09
Carbazole	< 27200	ug/Kg	1/27/2023	15:09
Chrysene	**39200**	ug/Kg	1/27/2023	15:09
Dibenz (a,h) anthracene	< 27200	ug/Kg	1/27/2023	15:09
Dibenzofuran	**49000**	ug/Kg	1/27/2023	15:09
Diethyl phthalate	< 27200	ug/Kg	1/27/2023	15:09
Dimethyl phthalate	< 27200	ug/Kg	1/27/2023	15:09
Di-n-butyl phthalate	< 27200	ug/Kg	1/27/2023	15:09
Di-n-octylphthalate	< 27200	ug/Kg	1/27/2023	15:09
Fluoranthene	**202000**	ug/Kg	1/27/2023	15:09
Fluorene	**94700**	ug/Kg	1/27/2023	15:09
Hexachlorobenzene	< 27200	ug/Kg	1/27/2023	15:09
Hexachlorobutadiene	< 27200	ug/Kg	1/27/2023	15:09
Hexachlorocyclopentadiene	< 109000	ug/Kg	1/27/2023	15:09
Hexachloroethane	< 27200	ug/Kg	1/27/2023	15:09
Indeno (1,2,3-cd) pyrene	< 27200	ug/Kg	1/27/2023	15:09
Isophorone	< 27200	ug/Kg	1/27/2023	15:09
Naphthalene	< 27200	ug/Kg	1/27/2023	15:09
Nitrobenzene	< 27200	ug/Kg	1/27/2023	15:09
N-Nitroso-di-n-propylamine	< 27200	ug/Kg	1/27/2023	15:09
N-Nitrosodiphenylamine	< 27200	ug/Kg	1/27/2023	15:09
Pentachlorophenol	< 54300	ug/Kg	1/27/2023	15:09
Phenanthrene	**222000**	ug/Kg	1/27/2023	15:09

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 230266

Client: **Inventum Engineering, P.C.**

Project Reference: CYTJ NAPL

Sample Identifier: CYJT-NAPL-01202023
Lab Sample ID: 230266-01 **Date Sampled** 1/20/2023 11:15
Matrix: Solid **Date Received** 1/20/2023

Phenol	< 27200	ug/Kg		1/27/2023 15:09
Pyrene	**138000**	ug/Kg		1/27/2023 15:09
Pyridine	< 27200	ug/Kg		1/27/2023 15:09

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	NC	35.4 - 92.4		1/27/2023 15:09
2-Fluorobiphenyl	NC	39.6 - 84.4		1/27/2023 15:09
2-Fluorophenol	NC	35.5 - 78.9		1/27/2023 15:09
Nitrobenzene-d5	NC	36.5 - 78.2		1/27/2023 15:09
Phenol-d5	NC	37.1 - 78.3		1/27/2023 15:09
Terphenyl-d14	NC	42.3 - 103		1/27/2023 15:09

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 1/26/2023
Data File: B66106.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1,2-Tetrachloroethane	< 575	ug/Kg		1/25/2023 16:11
1,1,1-Trichloroethane	< 575	ug/Kg		1/25/2023 16:11
1,1,2,2-Tetrachloroethane	< 575	ug/Kg		1/25/2023 16:11
1,1,2-Trichloroethane	< 575	ug/Kg		1/25/2023 16:11
1,1-Dichloroethane	< 575	ug/Kg		1/25/2023 16:11
1,1-Dichloroethene	< 575	ug/Kg		1/25/2023 16:11
1,1-Dichloropropene	< 575	ug/Kg		1/25/2023 16:11
1,2,3-Trichlorobenzene	< 1440	ug/Kg		1/25/2023 16:11
1,2,3-Trichloropropane	< 575	ug/Kg		1/25/2023 16:11
1,2,4-Trichlorobenzene	< 1440	ug/Kg		1/25/2023 16:11
1,2,4-Trimethylbenzene	**3710**	ug/Kg		1/25/2023 16:11
1,2-Dibromo-3-Chloropropane	< 2870	ug/Kg		1/25/2023 16:11
1,2-Dibromoethane	< 575	ug/Kg		1/25/2023 16:11
1,2-Dichlorobenzene	< 575	ug/Kg		1/25/2023 16:11
1,2-Dichloroethane	< 575	ug/Kg		1/25/2023 16:11

Sample Identifier: CYJT-NAPL-01202023
Lab Sample ID: 230266-01 **Date Sampled** 1/20/2023 11:15
Matrix: Solid **Date Received** 1/20/2023

1,2-Dichloropropane	< 575	ug/Kg	1/25/2023 16:11
1,3,5-Trimethylbenzene	**1640**	ug/Kg	1/25/2023 16:11
1,3-Dichlorobenzene	< 575	ug/Kg	1/25/2023 16:11
1,3-Dichloropropane	< 575	ug/Kg	1/25/2023 16:11
1,4-Dichlorobenzene	< 575	ug/Kg	1/25/2023 16:11
1,4-Dioxane	< 2870	ug/Kg	1/25/2023 16:11
2,2-Dichloropropane	< 575	ug/Kg	1/25/2023 16:11
2-Butanone	< 2870	ug/Kg	1/25/2023 16:11
2-Chlorotoluene	< 575	ug/Kg	1/25/2023 16:11
2-Hexanone	< 1440	ug/Kg	1/25/2023 16:11
4-Chlorotoluene	< 575	ug/Kg	1/25/2023 16:11
4-Methyl-2-pentanone	< 1440	ug/Kg	1/25/2023 16:11
Acetone	< 2870	ug/Kg	1/25/2023 16:11
Benzene	< 575	ug/Kg	1/25/2023 16:11
Bromobenzene	< 1440	ug/Kg	1/25/2023 16:11
Bromochloromethane	< 1440	ug/Kg	1/25/2023 16:11
Bromodichloromethane	< 575	ug/Kg	1/25/2023 16:11
Bromoform	< 1440	ug/Kg	1/25/2023 16:11
Bromomethane	< 575	ug/Kg	1/25/2023 16:11
Carbon disulfide	< 575	ug/Kg	1/25/2023 16:11
Carbon Tetrachloride	< 575	ug/Kg	1/25/2023 16:11
Chlorobenzene	< 575	ug/Kg	1/25/2023 16:11
Chloroethane	< 575	ug/Kg	1/25/2023 16:11
Chloroform	< 575	ug/Kg	1/25/2023 16:11
Chloromethane	< 575	ug/Kg	1/25/2023 16:11
cis-1,2-Dichloroethene	< 575	ug/Kg	1/25/2023 16:11
cis-1,3-Dichloropropene	< 575	ug/Kg	1/25/2023 16:11
Cyclohexane	< 2870	ug/Kg	1/25/2023 16:11
Dibromochloromethane	< 575	ug/Kg	1/25/2023 16:11
Dibromomethane	< 575	ug/Kg	1/25/2023 16:11

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 230266

Client: **Inventum Engineering, P.C.**

Project Reference: CYTJ NAPL

Sample Identifier: CYJT-NAPL-01202023
Lab Sample ID: 230266-01 **Date Sampled** 1/20/2023 11:15
Matrix: Solid **Date Received** 1/20/2023

Dichlorodifluoromethane	< 575	ug/Kg		1/25/2023	16:11
Ethylbenzene	**830**	ug/Kg		1/25/2023	16:11
Freon 113	< 575	ug/Kg		1/25/2023	16:11
Isopropylbenzene	< 575	ug/Kg		1/25/2023	16:11
m,p-Xylene	**1400**	ug/Kg		1/25/2023	16:11
Methyl acetate	**2730**	ug/Kg		1/25/2023	16:11
Methyl tert-butyl Ether	< 575	ug/Kg		1/25/2023	16:11
Methylcyclohexane	< 575	ug/Kg		1/25/2023	16:11
Methylene chloride	< 1440	ug/Kg		1/25/2023	16:11
Naphthalene	**304000**	ug/Kg	E	1/25/2023	16:11
n-Butylbenzene	**715**	ug/Kg		1/25/2023	16:11
n-Propylbenzene	< 575	ug/Kg		1/25/2023	16:11
o-Xylene	**1460**	ug/Kg		1/25/2023	16:11
p-Isopropyltoluene	< 575	ug/Kg		1/25/2023	16:11
sec-Butylbenzene	< 575	ug/Kg		1/25/2023	16:11
Styrene	< 1440	ug/Kg		1/25/2023	16:11
tert-Butylbenzene	< 575	ug/Kg		1/25/2023	16:11
Tetrachloroethene	< 575	ug/Kg		1/25/2023	16:11
Toluene	< 575	ug/Kg		1/25/2023	16:11
trans-1,2-Dichloroethene	< 575	ug/Kg		1/25/2023	16:11
trans-1,3-Dichloropropene	< 575	ug/Kg		1/25/2023	16:11
Trichloroethene	< 575	ug/Kg		1/25/2023	16:11
Trichlorofluoromethane	< 575	ug/Kg		1/25/2023	16:11
Vinyl chloride	< 575	ug/Kg		1/25/2023	16:11

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 230266

Client: **Inventum Engineering, P.C.**

Project Reference: CYTJ NAPL

Sample Identifier: CYJT-NAPL-01202023

Lab Sample ID: 230266-01 **Date Sampled** 1/20/2023 11:15

Matrix: Solid **Date Received** 1/20/2023

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**100**	74.7 - 140		1/25/2023 16:11
4-Bromofluorobenzene	**99.8**	68 - 130		1/25/2023 16:11
Pentafluorobenzene	**102**	70.3 - 140		1/25/2023 16:11
Toluene-D8	**102**	69 - 138		1/25/2023 16:11

Method Reference(s): EPA 8260C
EPA 5035A -- H

Data File: z14670.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 230266

Client: **Inventum Engineering, P.C.**

Project Reference: CYTJ NAPL

Sample Identifier: CYJT-NAPL-01202023
Lab Sample ID: 230266-01A **Date Sampled** 1/20/2023 11:15
Matrix: TCLP Extract **Date Received** 1/20/2023

TCLP Pesticides

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Chlordane	<10	ug/L	30		1/30/2023
Endrin	<2.0	ug/L	20		1/30/2023
gamma-BHC (Lindane)	<2.0	ug/L	400		1/30/2023
Heptachlor	<2.0	ug/L	8		1/30/2023
Heptachlor Epoxide	<2.0	ug/L	8		1/30/2023
Methoxychlor	<10	ug/L	10000		1/30/2023
Toxaphene	<20	ug/L	500		1/30/2023

Method Reference(s): EPA 8081B
Subcontractor ELAP ID: 10709

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		1/25/2023 21:28
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		1/25/2023 21:28
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		1/25/2023 21:28
2,4-Dinitrotoluene	< 40.0	ug/L	130		1/25/2023 21:28
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		1/25/2023 21:28
Hexachlorobenzene	< 40.0	ug/L	130		1/25/2023 21:28
Hexachlorobutadiene	< 40.0	ug/L	500		1/25/2023 21:28
Hexachloroethane	< 40.0	ug/L	3000		1/25/2023 21:28
Nitrobenzene	< 40.0	ug/L	2000		1/25/2023 21:28
Pentachlorophenol	< 80.0	ug/L	100000		1/25/2023 21:28
Pyridine	< 40.0	ug/L	5000		1/25/2023 21:28

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 230266

Client: **Inventum Engineering, P.C.**

Project Reference: CYTJ NAPL

Sample Identifier: CYJT-NAPL-01202023
Lab Sample ID: 230266-01A **Date Sampled** 1/20/2023 11:15
Matrix: TCLP Extract **Date Received** 1/20/2023

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**89.6**	29.6 - 139		1/25/2023 21:28
2-Fluorobiphenyl	**70.1**	10 - 124		1/25/2023 21:28
2-Fluorophenol	**73.6**	10 - 122		1/25/2023 21:28
Nitrobenzene-d5	**79.2**	28.7 - 119		1/25/2023 21:28
Phenol-d5	**69.1**	10 - 115		1/25/2023 21:28
Terphenyl-d14	**84.6**	32.2 - 142		1/25/2023 21:28

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 1/24/2023
Data File: B66083.D

TCLP Herbicides

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
2,4,5-TP (Silvex)	<0.050	mg/L	1		1/30/2023
2,4-D	<0.050	mg/L	10		1/30/2023

Method Reference(s): EPA 8321B
EPA 1311
Subcontractor ELAP ID: 10709

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2		1/26/2023 14:22

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 1/25/2023
Data File: Hg230126A

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.500	mg/L	5		1/24/2023 07:01
Barium	< 0.500	mg/L	100		1/24/2023 07:01
Cadmium	< 0.0250	mg/L	1		1/24/2023 07:01
Chromium	< 0.500	mg/L	5		1/24/2023 07:01

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 230266

Client: **Inventum Engineering, P.C.**

Project Reference: CYTJ NAPL

Sample Identifier: CYJT-NAPL-01202023
Lab Sample ID: 230266-01A **Date Sampled** 1/20/2023 11:15
Matrix: TCLP Extract **Date Received** 1/20/2023

Lead	< 0.500	mg/L	5	1/24/2023 07:01
Selenium	< 0.200	mg/L	1	1/24/2023 07:01
Silver	< 0.500	mg/L	5	1/24/2023 07:01

Method Reference(s): EPA 6010C
EPA 1311 / 3005A
Preparation Date: 1/23/2023
Data File: 230124A

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 200	ug/L	700		1/24/2023 17:10
1,2-Dichloroethane	< 200	ug/L	500		1/24/2023 17:10
2-Butanone	< 1000	ug/L	200000		1/24/2023 17:10
Benzene	< 200	ug/L	500		1/24/2023 17:10
Carbon Tetrachloride	< 200	ug/L	500		1/24/2023 17:10
Chlorobenzene	< 200	ug/L	100000		1/24/2023 17:10
Chloroform	< 200	ug/L	6000		1/24/2023 17:10
Tetrachloroethene	< 200	ug/L	700		1/24/2023 17:10
Trichloroethene	< 200	ug/L	500		1/24/2023 17:10
Vinyl chloride	< 200	ug/L	200		1/24/2023 17:10

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**99.3**	81.1 - 136		1/24/2023 17:10
4-Bromofluorobenzene	**90.8**	75.8 - 132		1/24/2023 17:10
Pentafluorobenzene	**103**	82 - 132		1/24/2023 17:10
Toluene-D8	**99.1**	64.6 - 137		1/24/2023 17:10

Method Reference(s): EPA 8260C
EPA 1311 / 5030C
Data File: z14648.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified “reported as received”. Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an “A” suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

“<” = Analyzed for but not detected at or above the quantitation limit.
“E” = Result has been estimated, calibration limit exceeded.
“H” = Denotes a parameter analyzed outside of holding time.
“Z” = See case narrative.
“D” = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
“M” = Matrix spike recoveries outside QC limits. Matrix bias indicated.
“B” = Method blank contained trace levels of analyte. Refer to included method blank report.
“J” = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
“P” = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

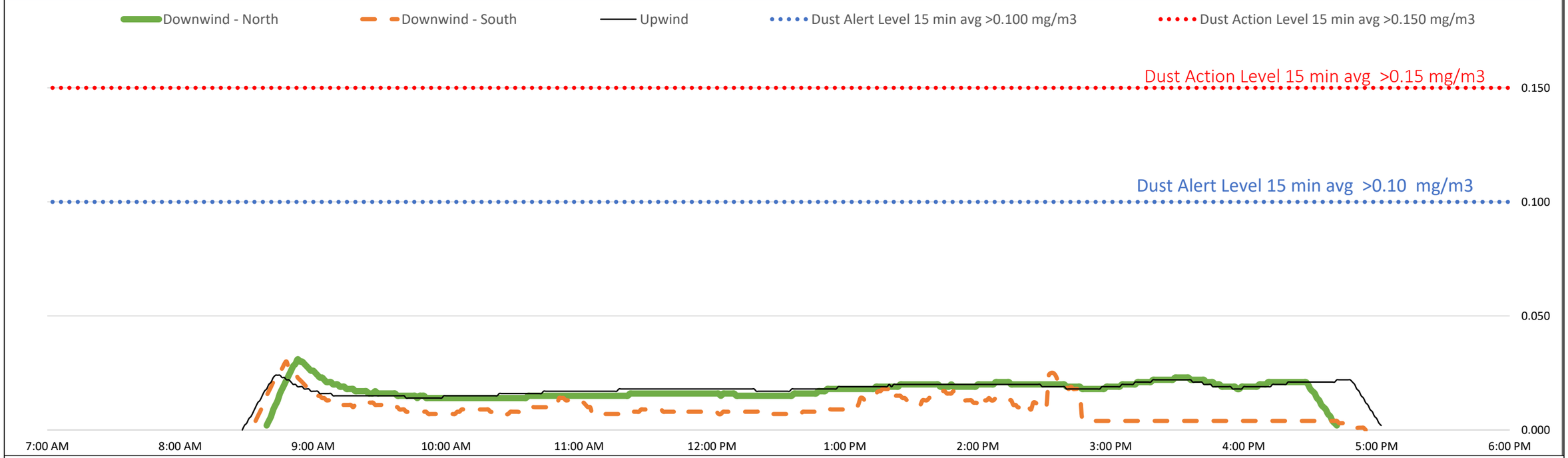
Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

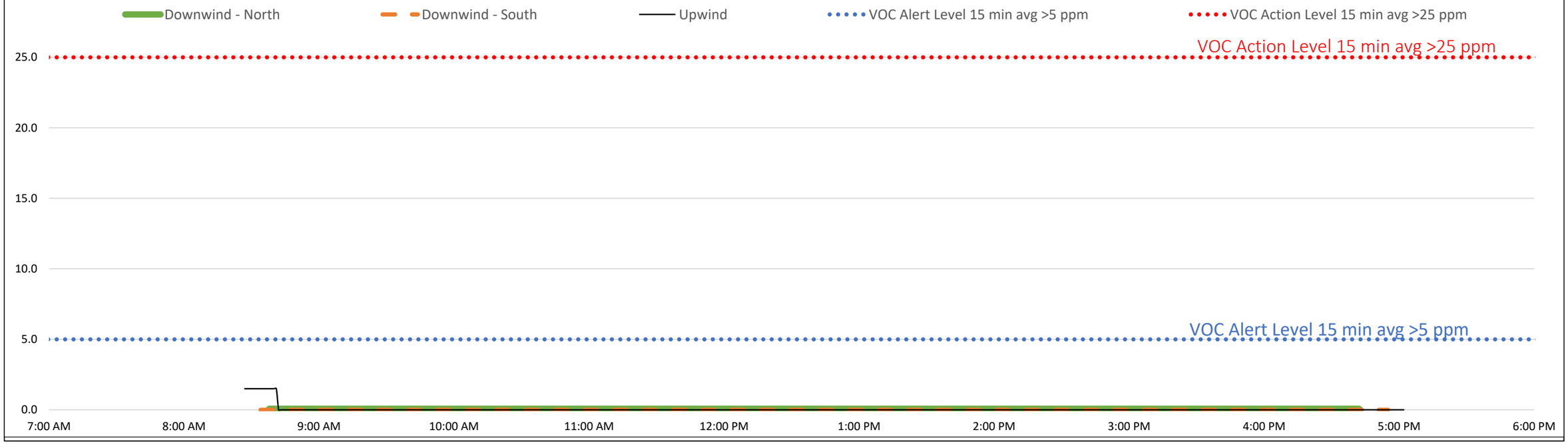
Appendix I - CAMP Data

Fixed Station Daily Air Monitoring - August 4, 2022

Dust (mg/m3) 15 min avg

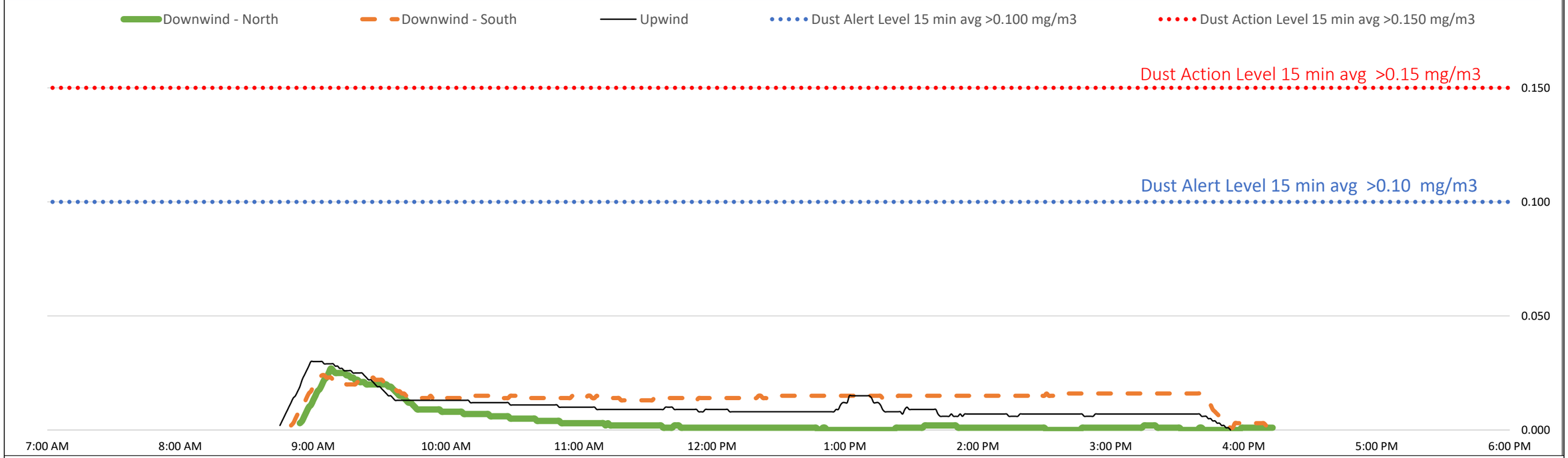


VOC (ppm) 15 min avg

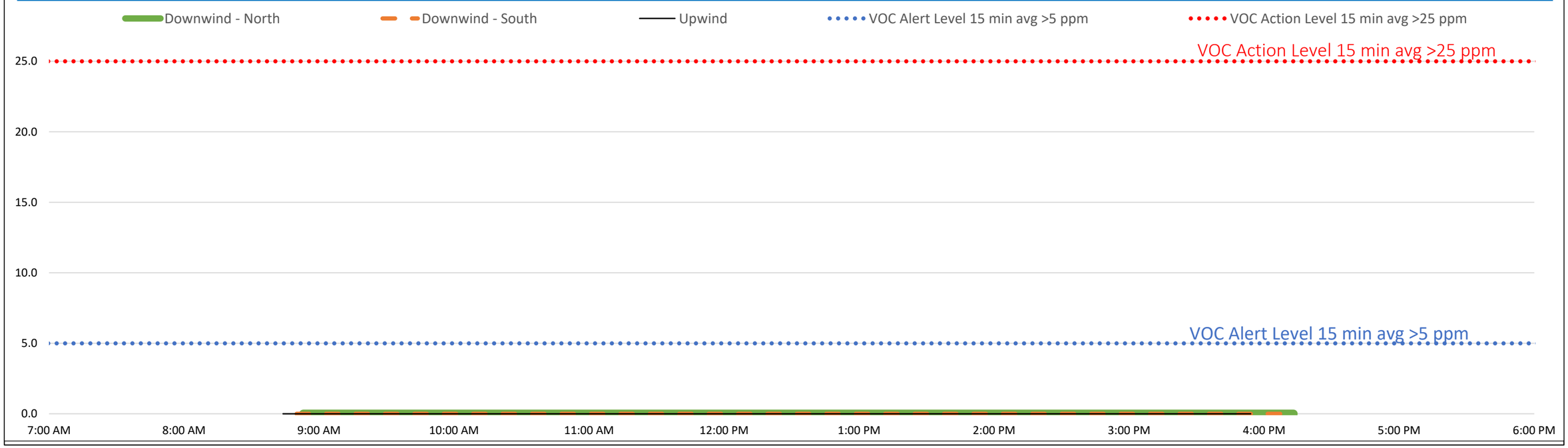


Fixed Station Daily Air Monitoring - September 9, 2022

Dust (mg/m3) 15 min avg

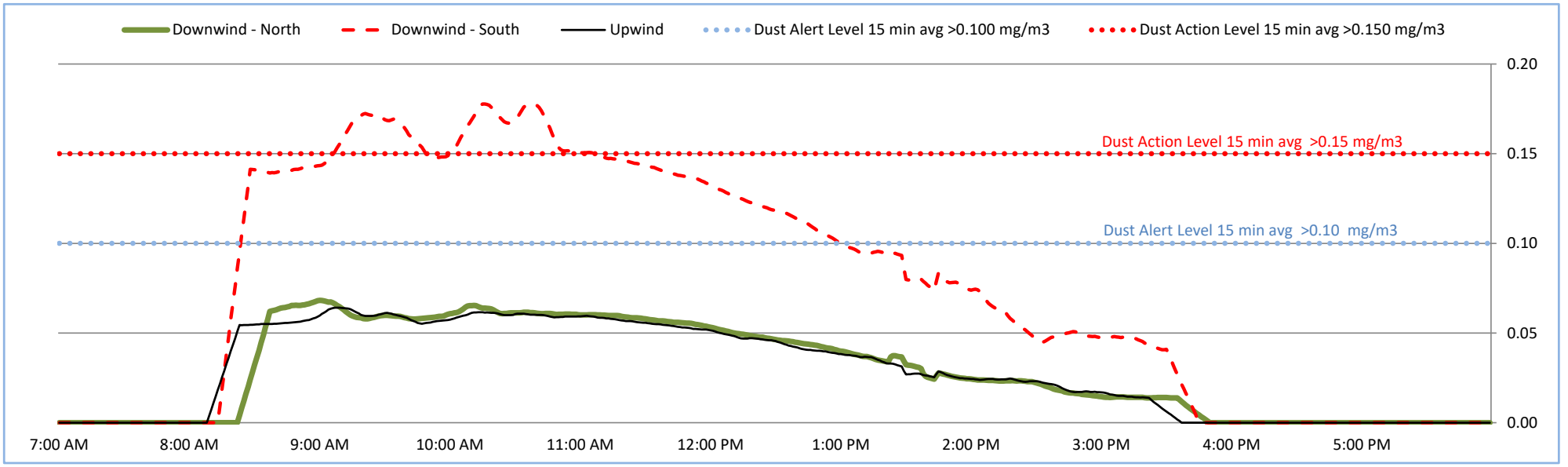


VOC (ppm) 15 min avg

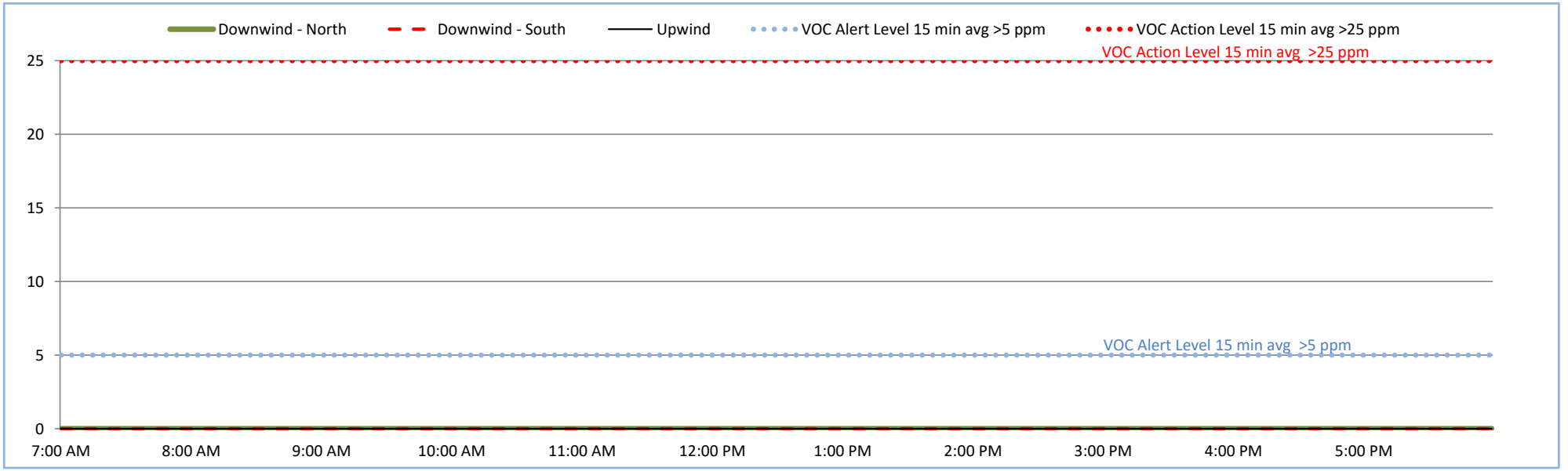


Fixed Station Daily Air Monitoring - January 3, 2023

Dust (mg/m3) 15 min avg

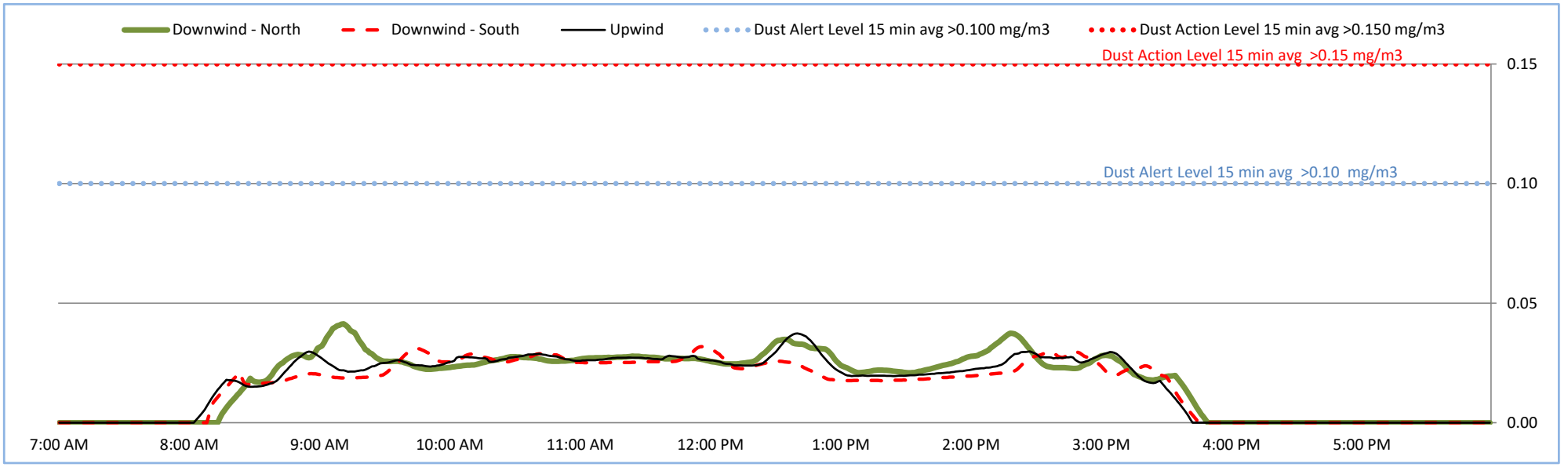


VOC (ppm) 15 min avg

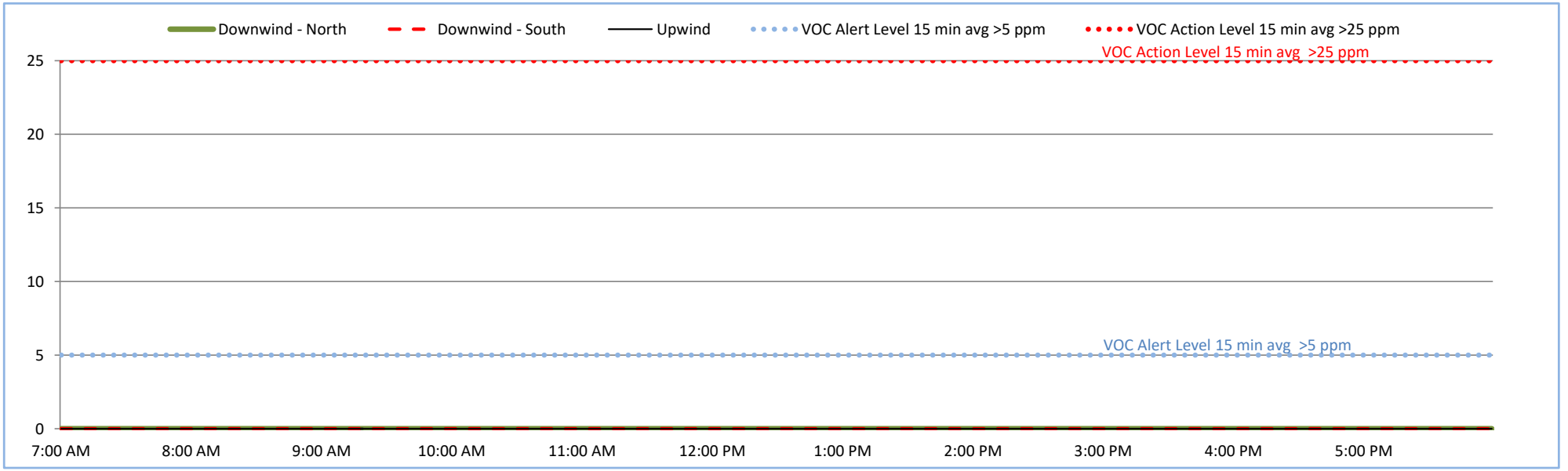


Fixed Station Daily Air Monitoring - January 4, 2023

Dust (mg/m3) 15 min avg

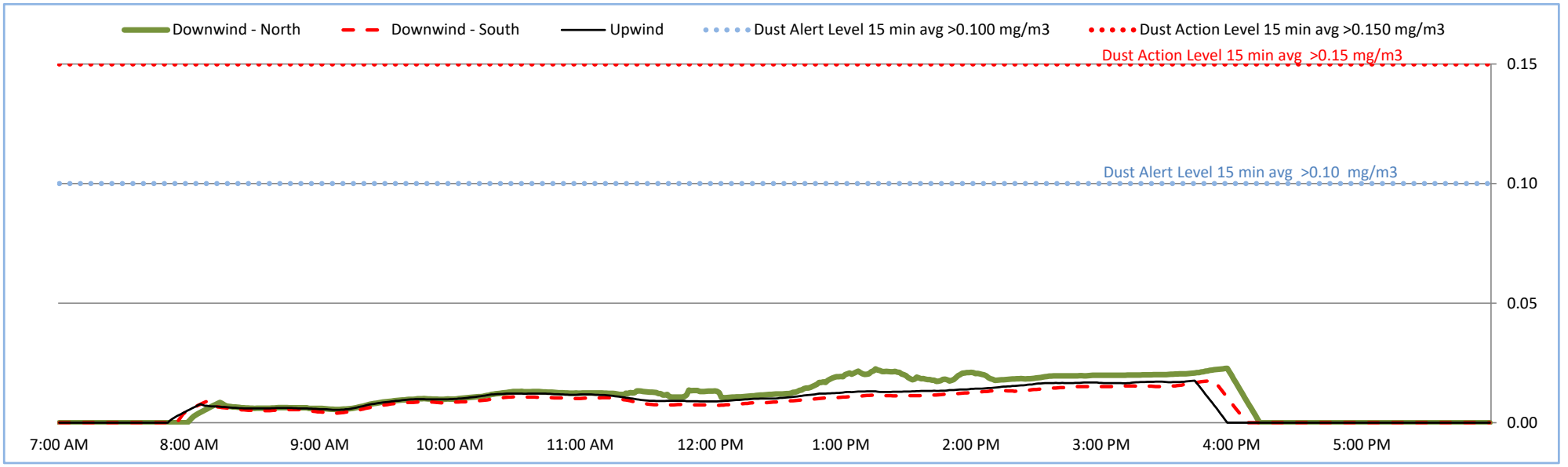


VOC (ppm) 15 min avg

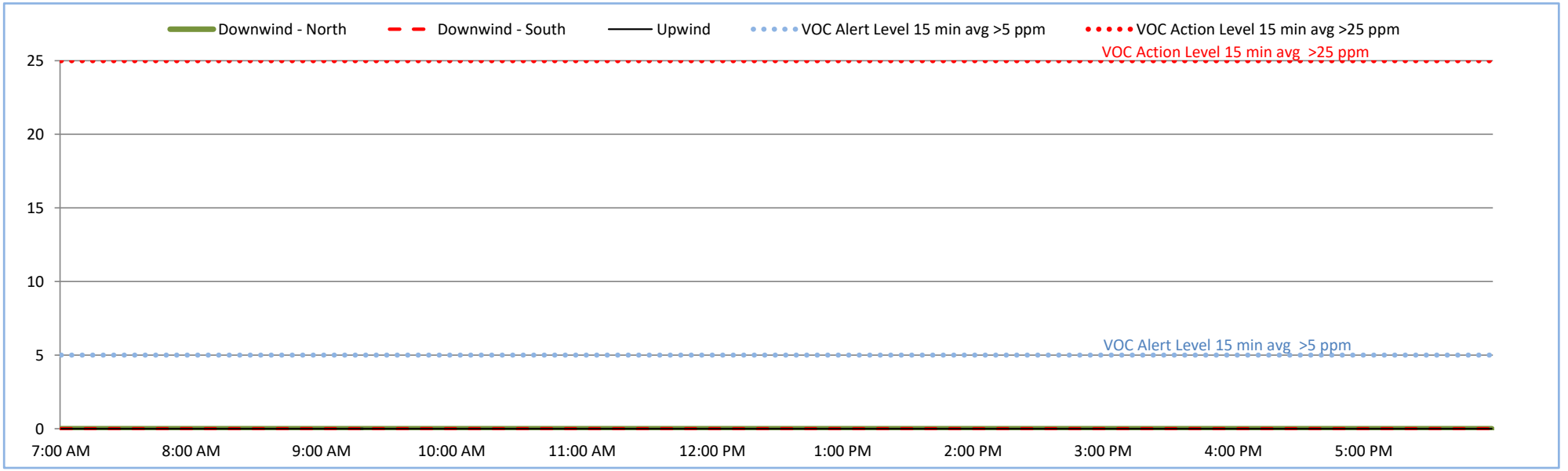


Fixed Station Daily Air Monitoring - January 5, 2023

Dust (mg/m3) 15 min avg

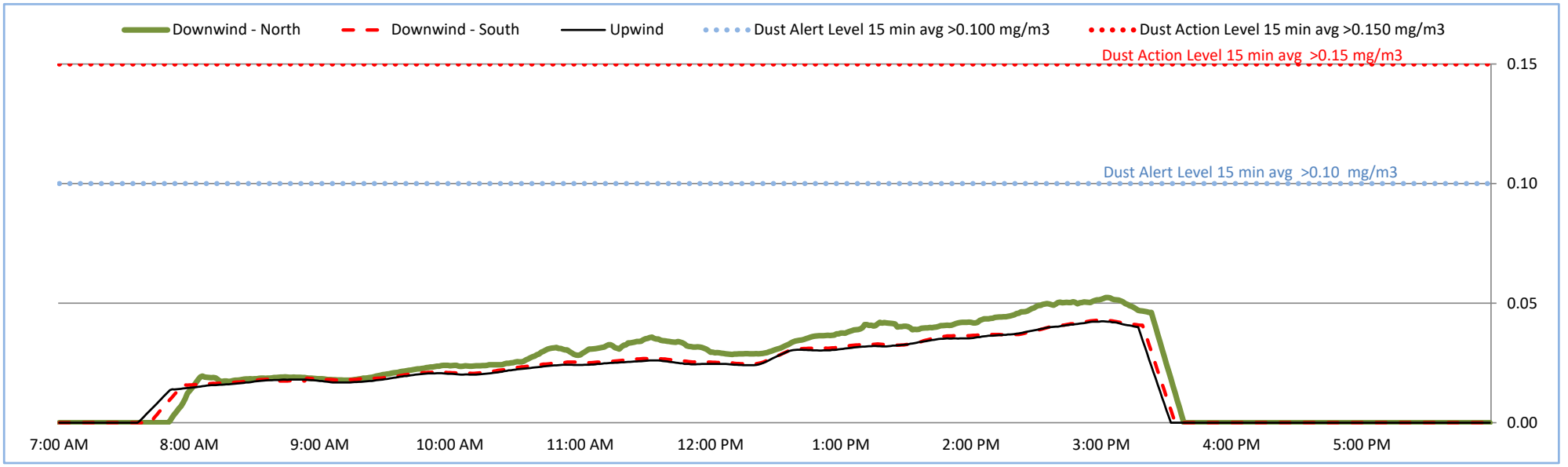


VOC (ppm) 15 min avg

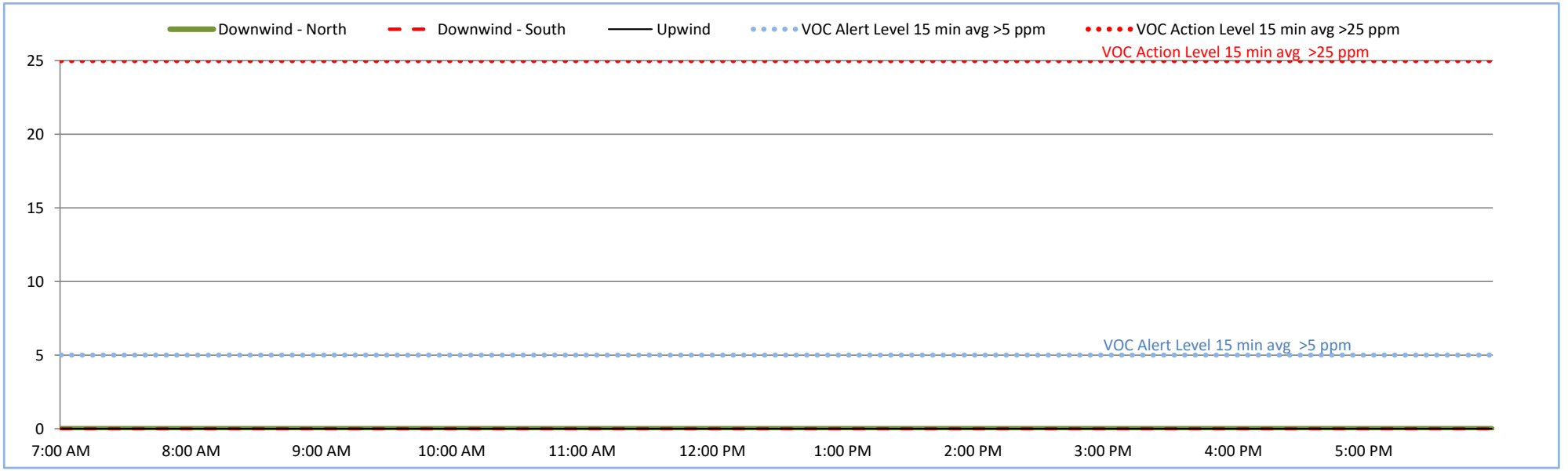


Fixed Station Daily Air Monitoring - January 6, 2023

Dust (mg/m3) 15 min avg

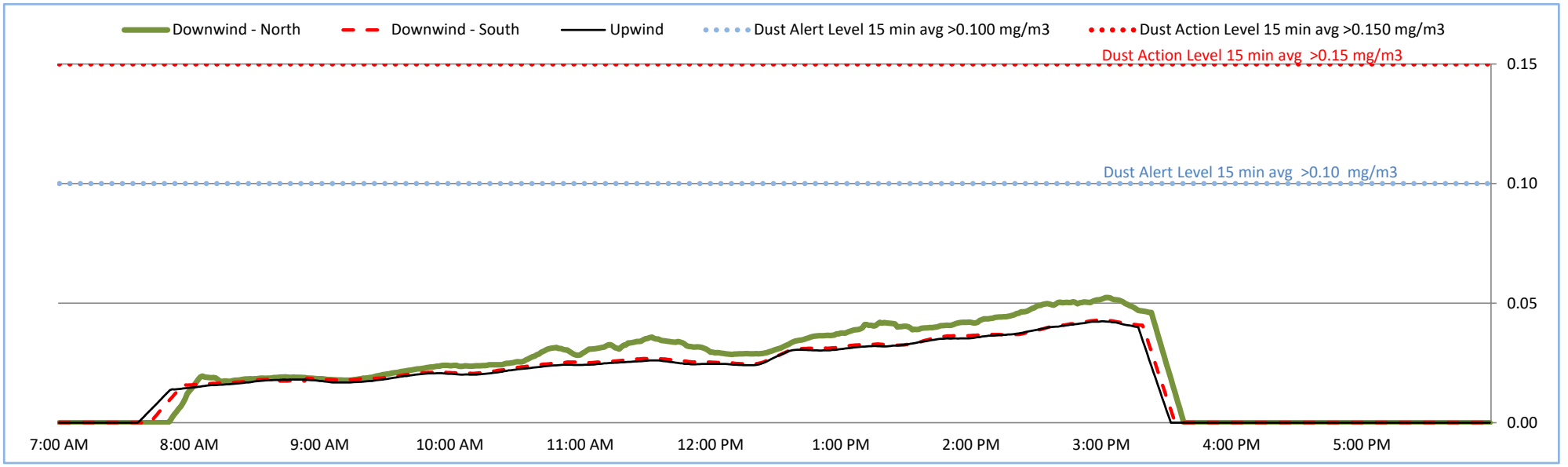


VOC (ppm) 15 min avg

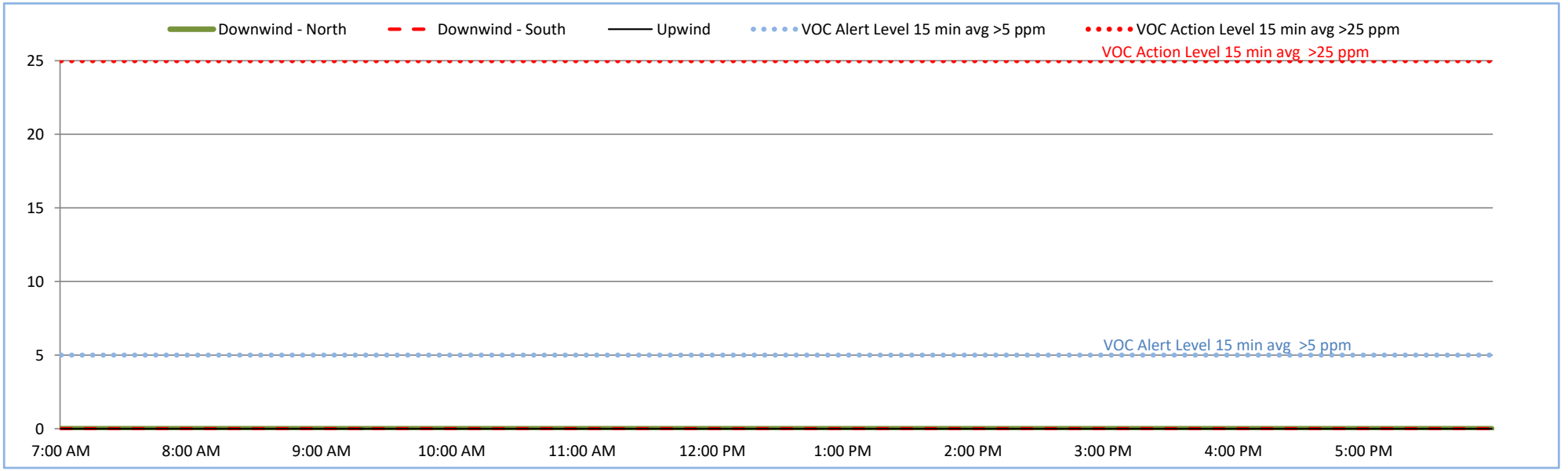


Fixed Station Daily Air Monitoring - January 6, 2023

Dust (mg/m3) 15 min avg

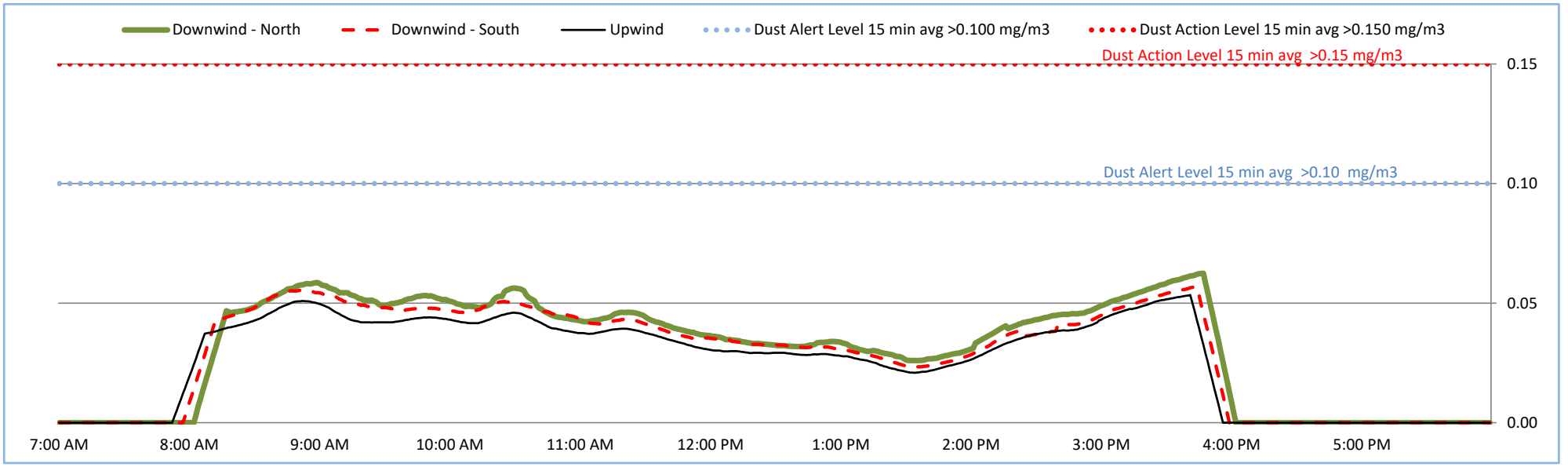


VOC (ppm) 15 min avg

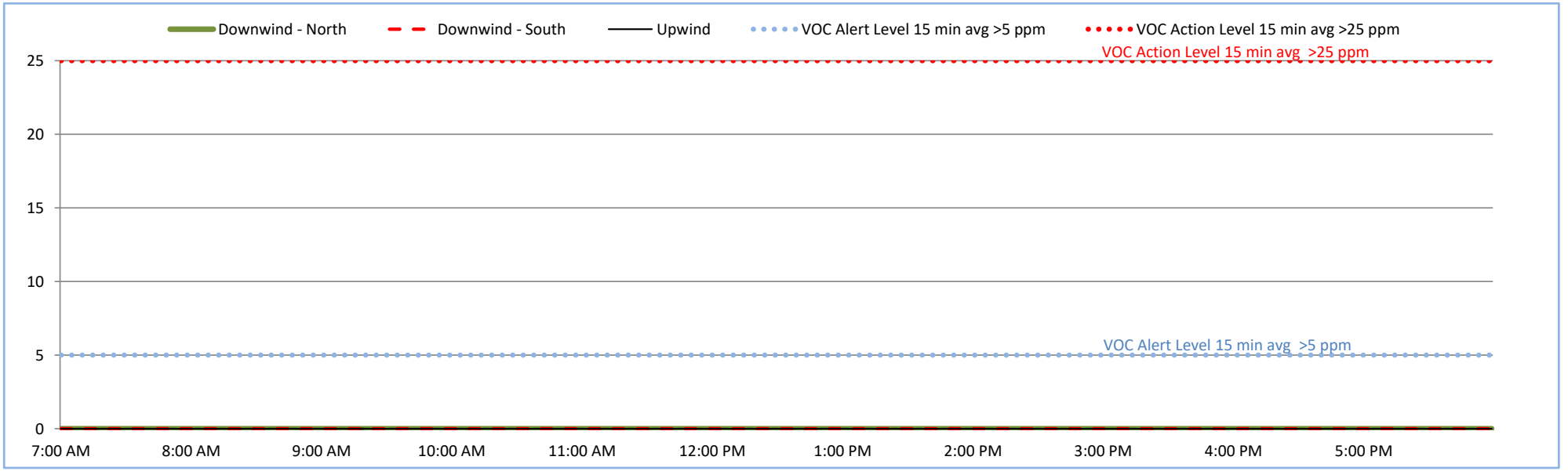


Fixed Station Daily Air Monitoring - January 9, 2023

Dust (mg/m3) 15 min avg

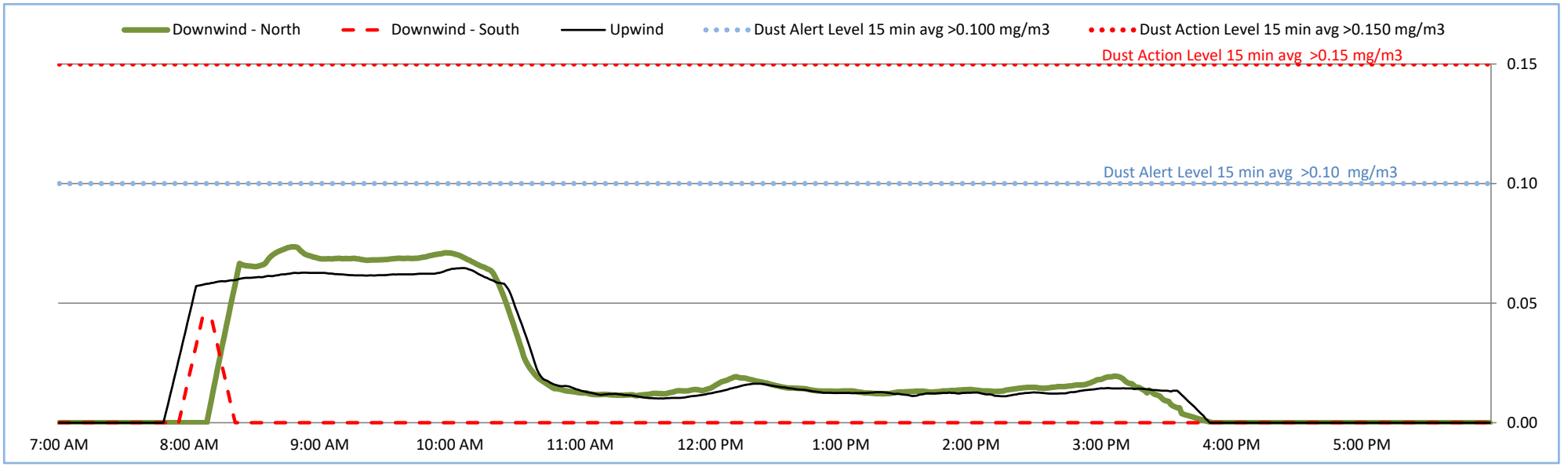


VOC (ppm) 15 min avg

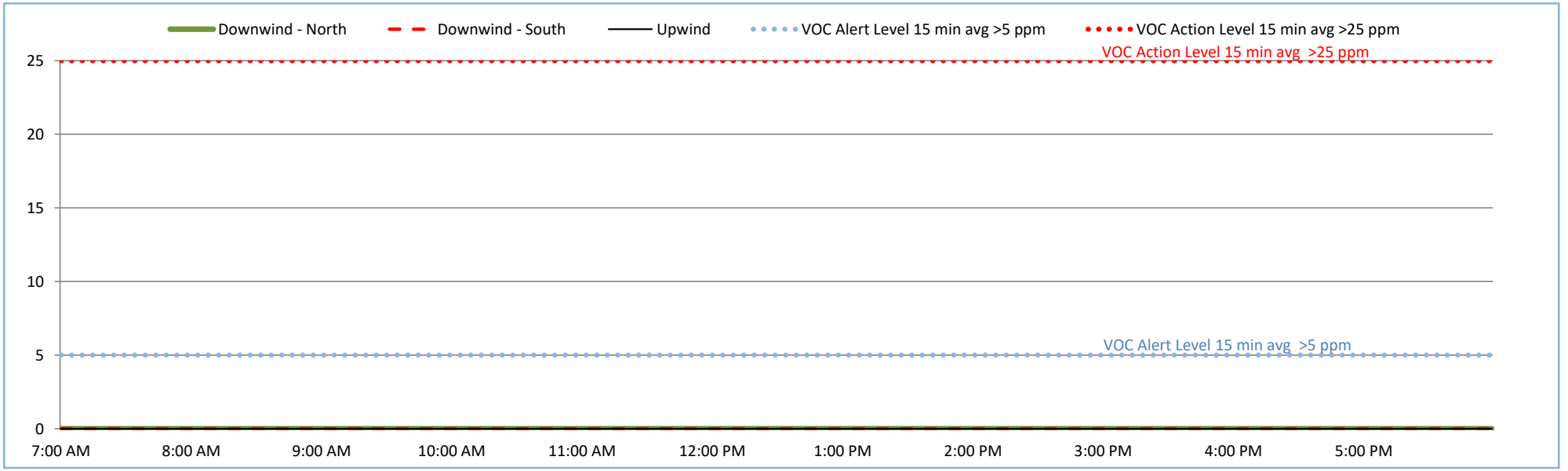


Fixed Station Daily Air Monitoring - January 10, 2023

Dust (mg/m3) 15 min avg

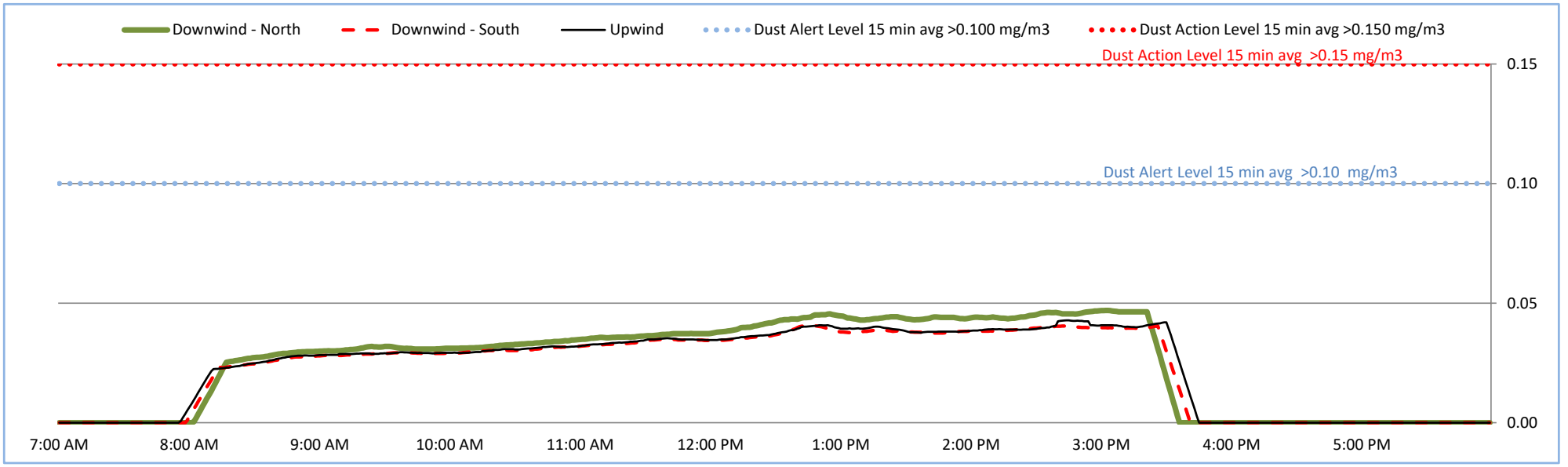


VOC (ppm) 15 min avg

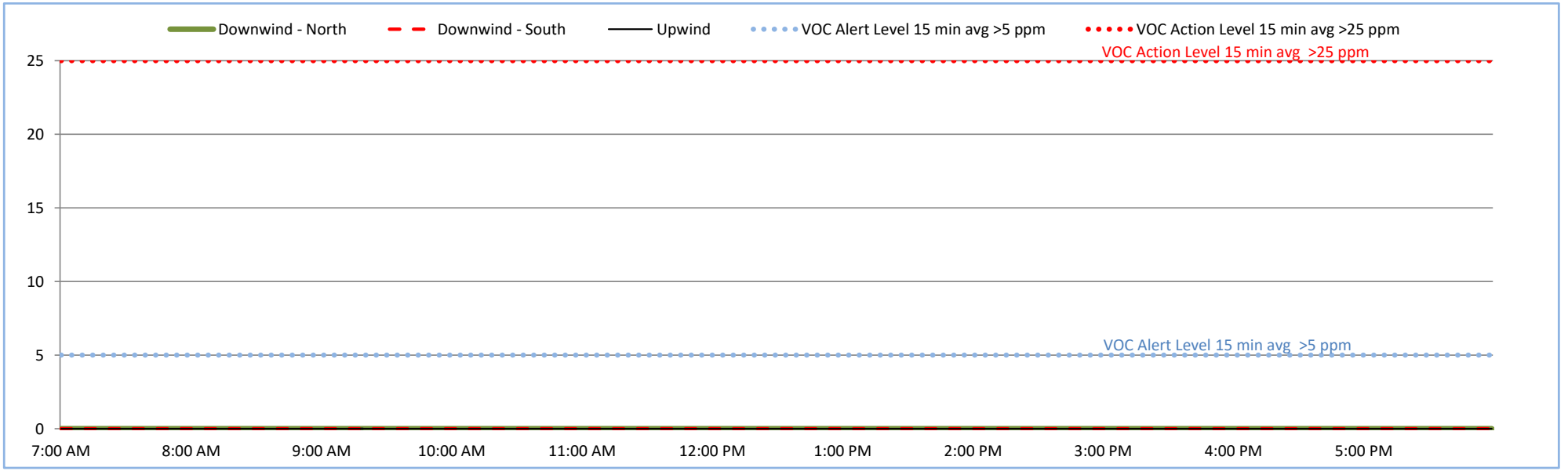


Fixed Station Daily Air Monitoring - January 11, 2023

Dust (mg/m3) 15 min avg

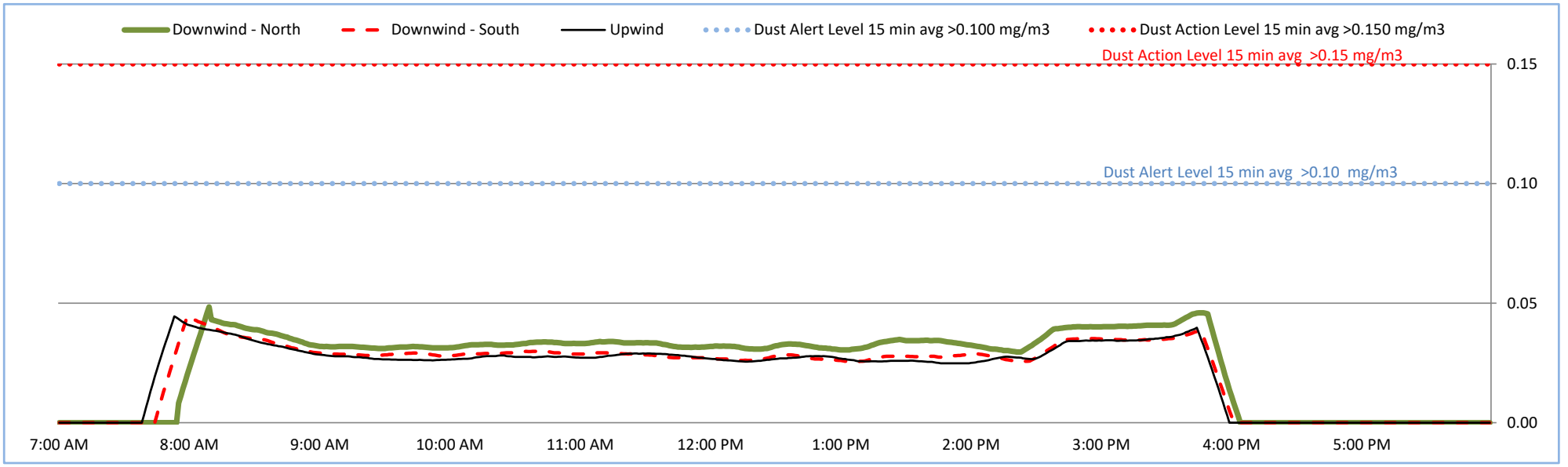


VOC (ppm) 15 min avg

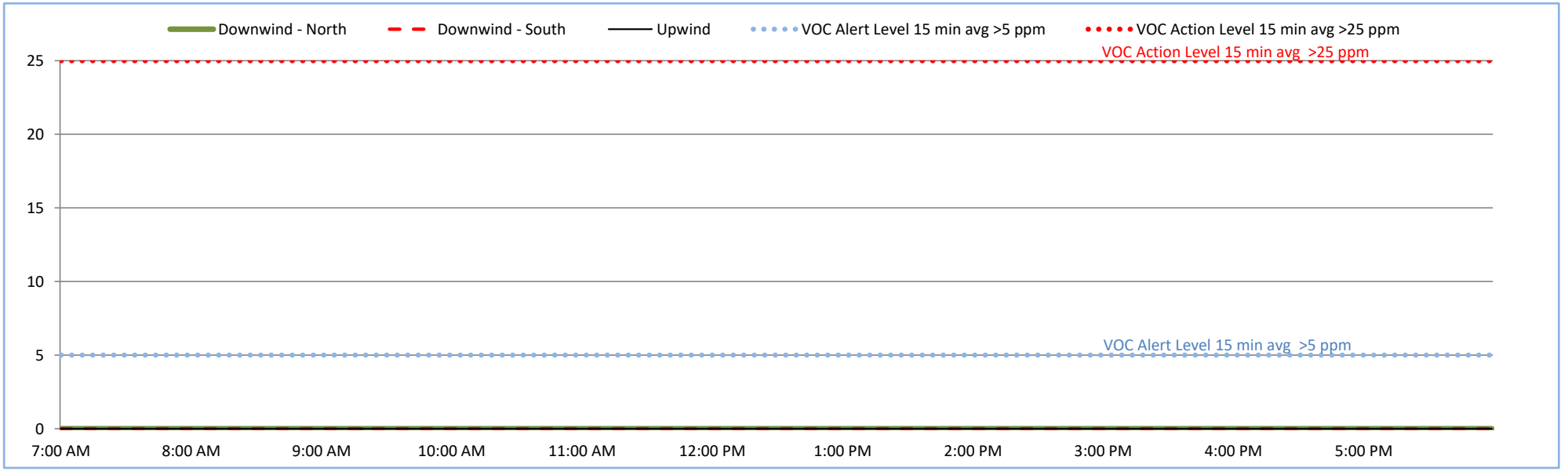


Fixed Station Daily Air Monitoring - January 12, 2023

Dust (mg/m3) 15 min avg

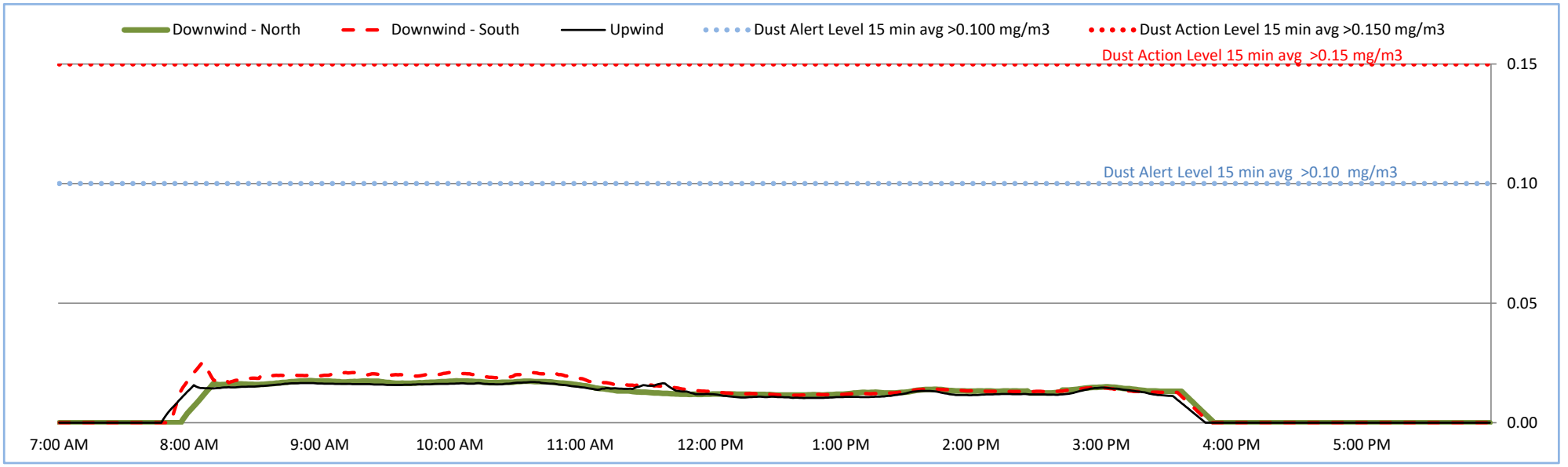


VOC (ppm) 15 min avg

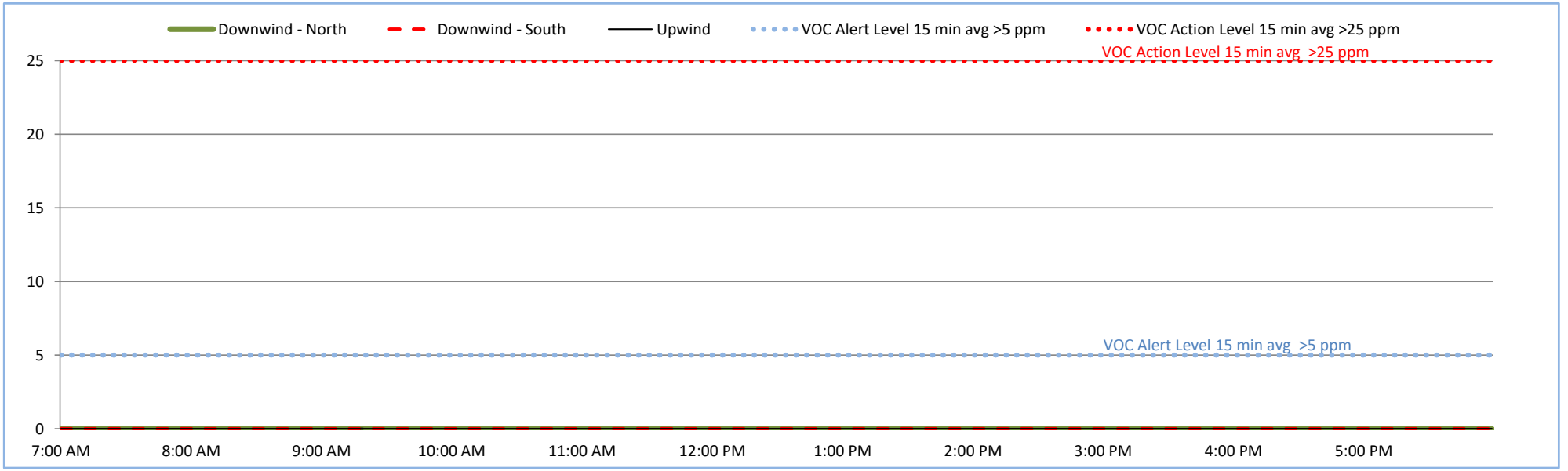


Fixed Station Daily Air Monitoring - January 13, 2023

Dust (mg/m3) 15 min avg

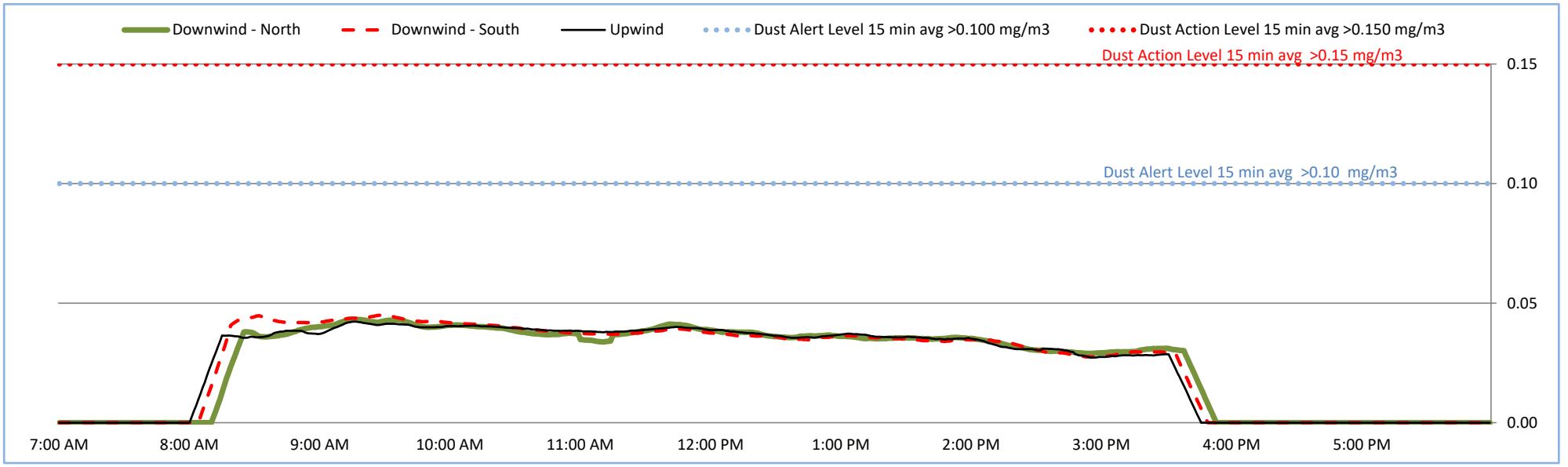


VOC (ppm) 15 min avg

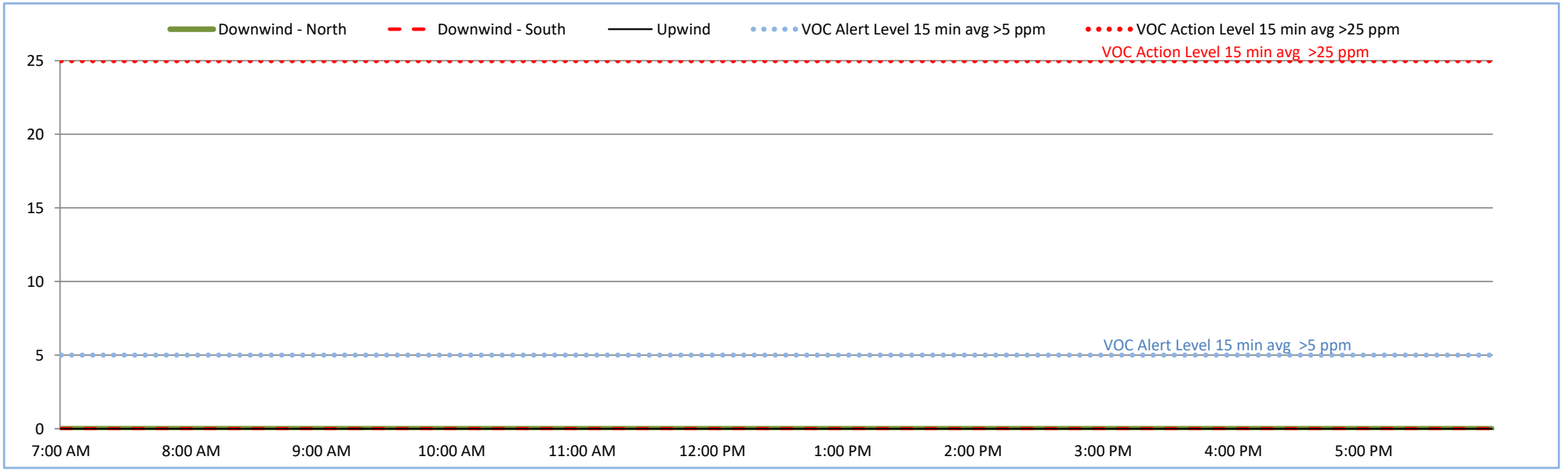


Fixed Station Daily Air Monitoring - January 16, 2023

Dust (mg/m3) 15 min avg

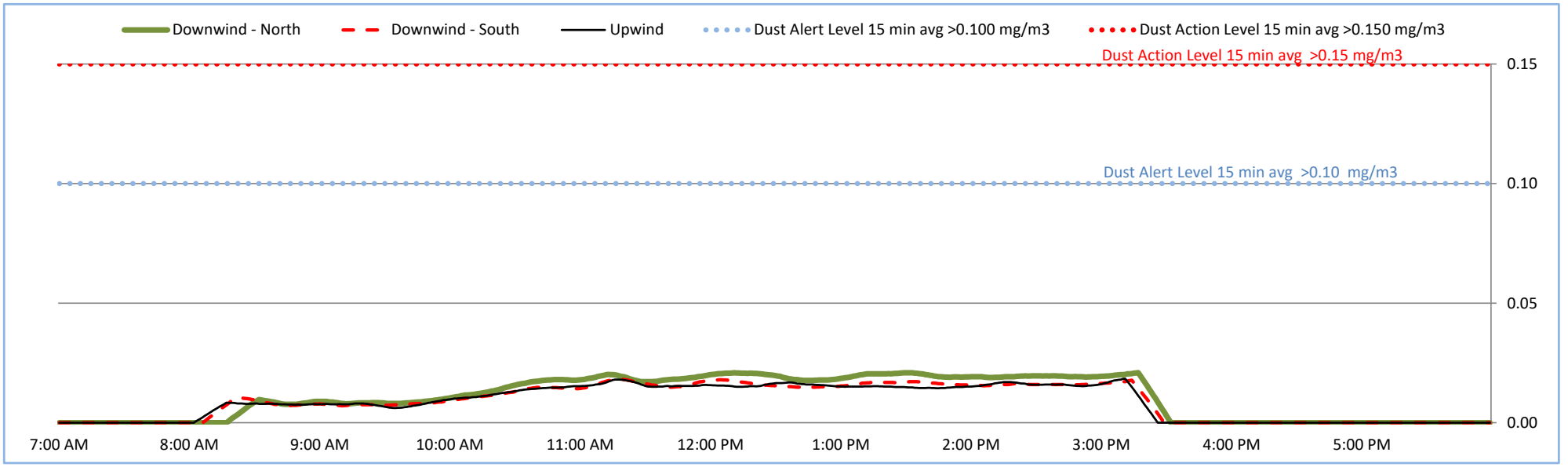


VOC (ppm) 15 min avg

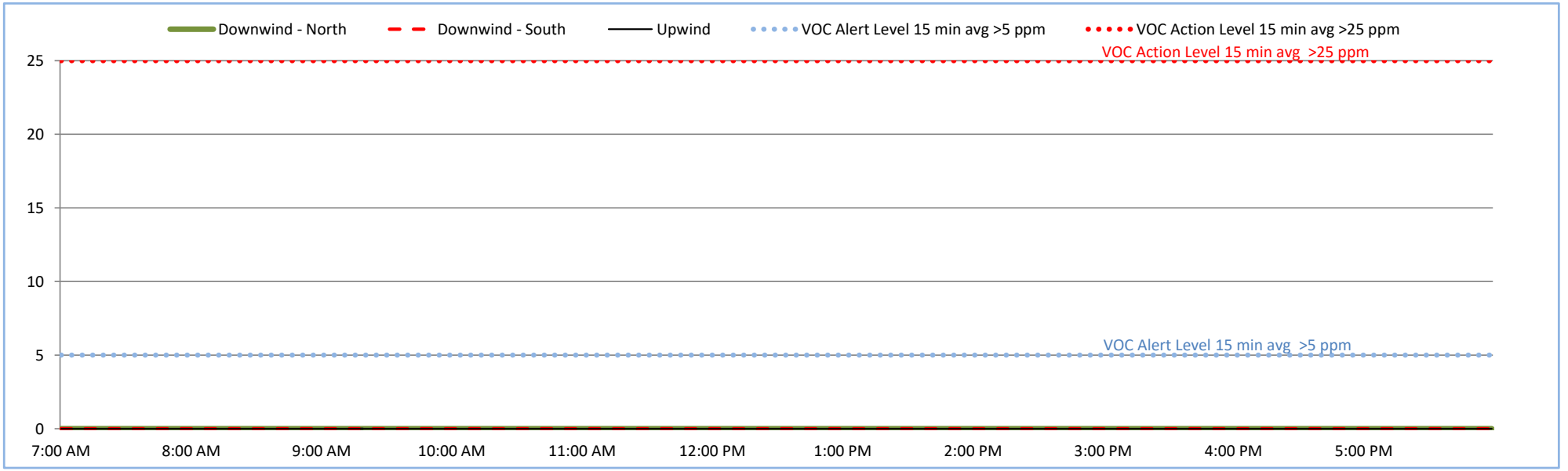


Fixed Station Daily Air Monitoring - January 17, 2023

Dust (mg/m3) 15 min avg

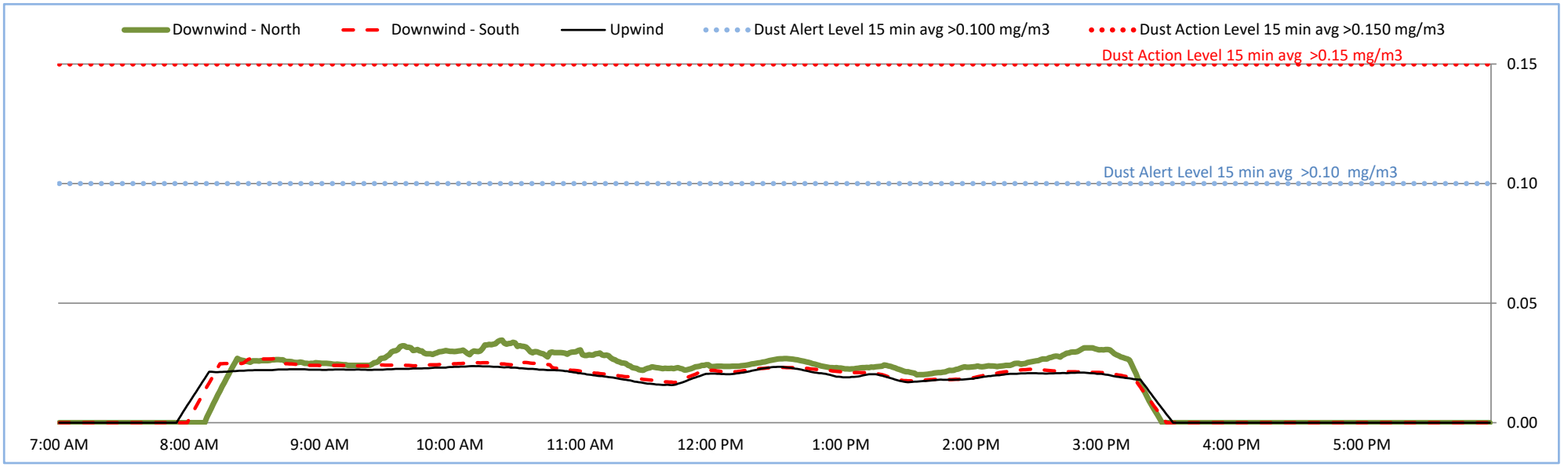


VOC (ppm) 15 min avg

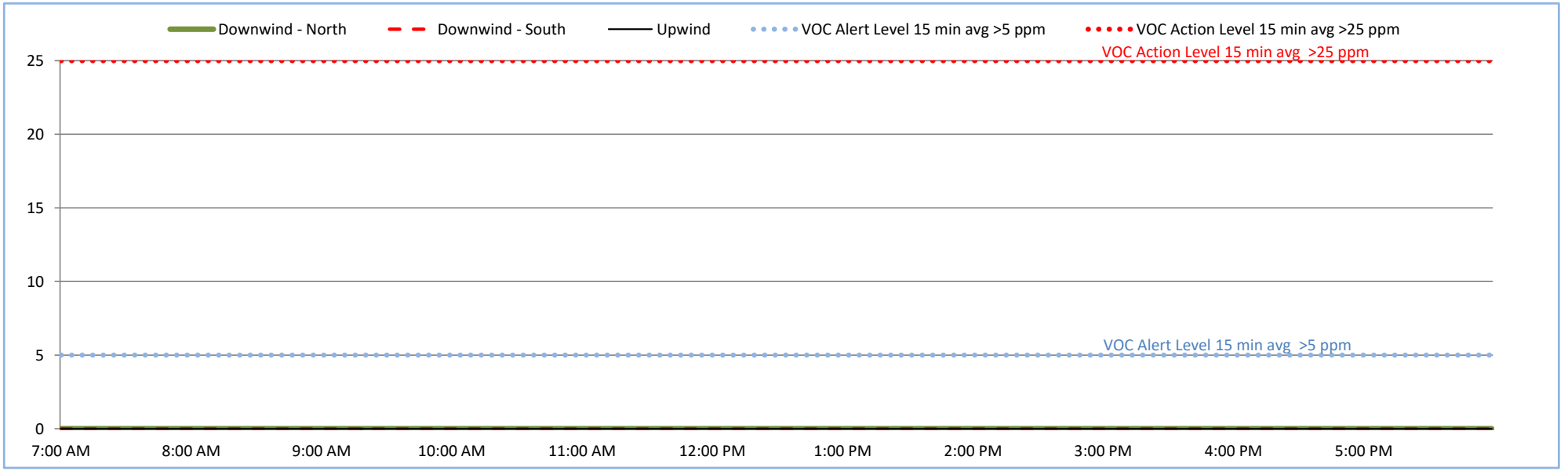


Fixed Station Daily Air Monitoring - January 18, 2023

Dust (mg/m3) 15 min avg

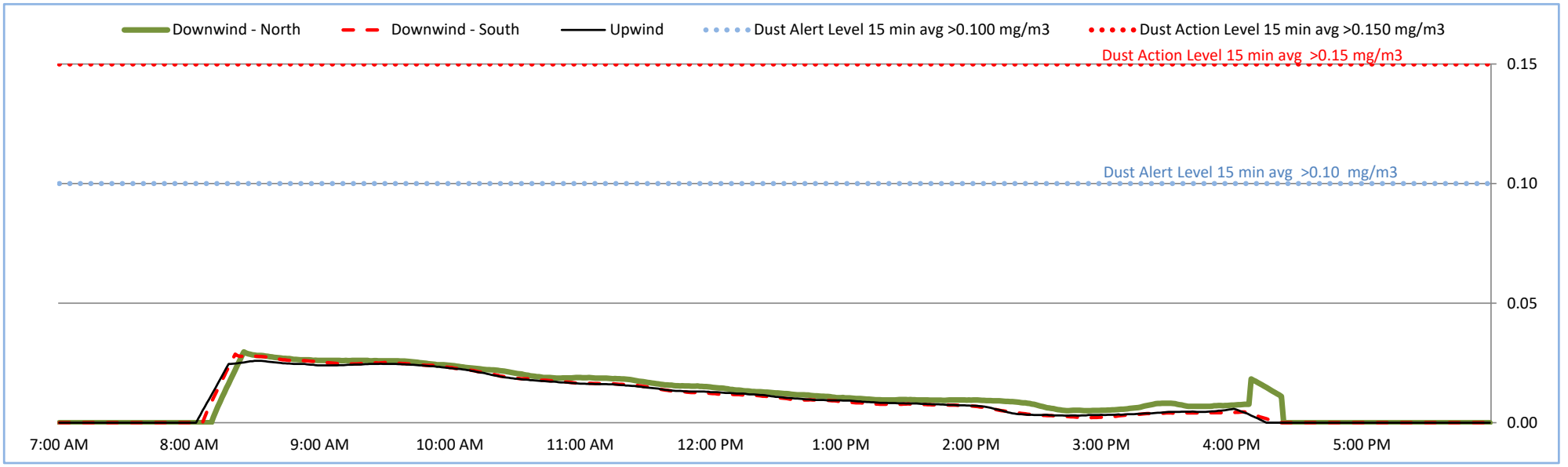


VOC (ppm) 15 min avg

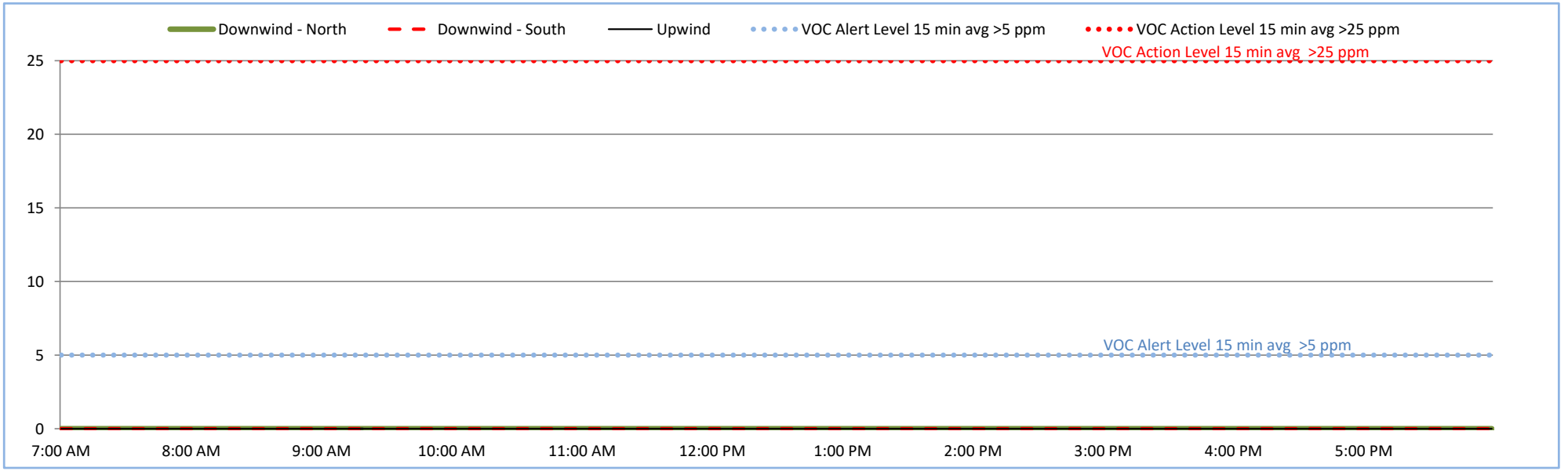


Fixed Station Daily Air Monitoring - January 19, 2023

Dust (mg/m3) 15 min avg

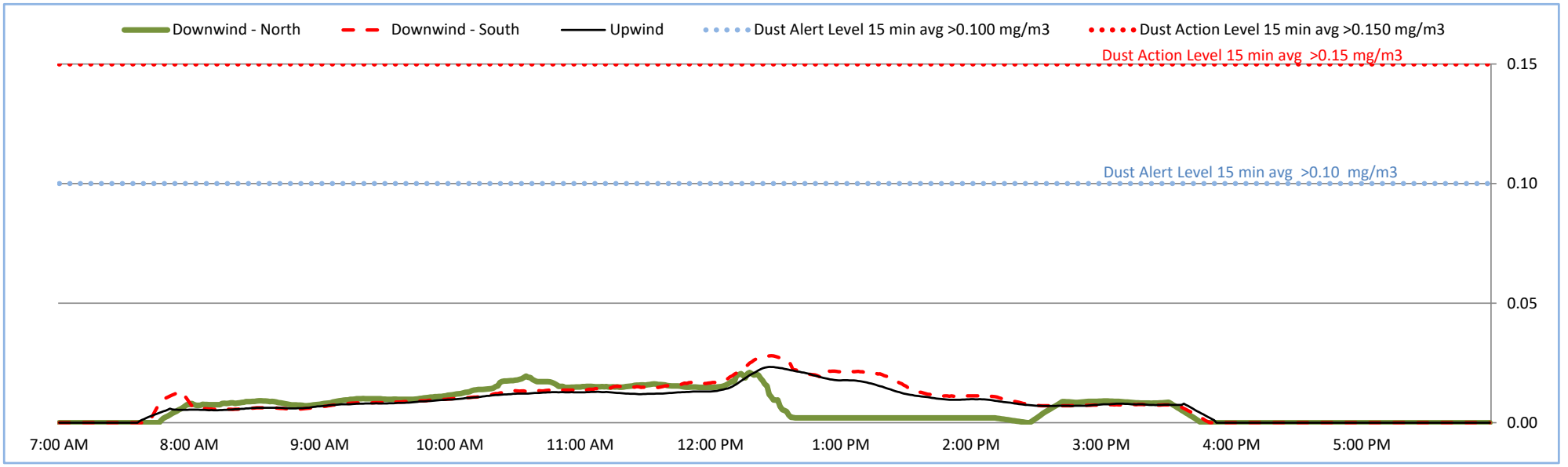


VOC (ppm) 15 min avg

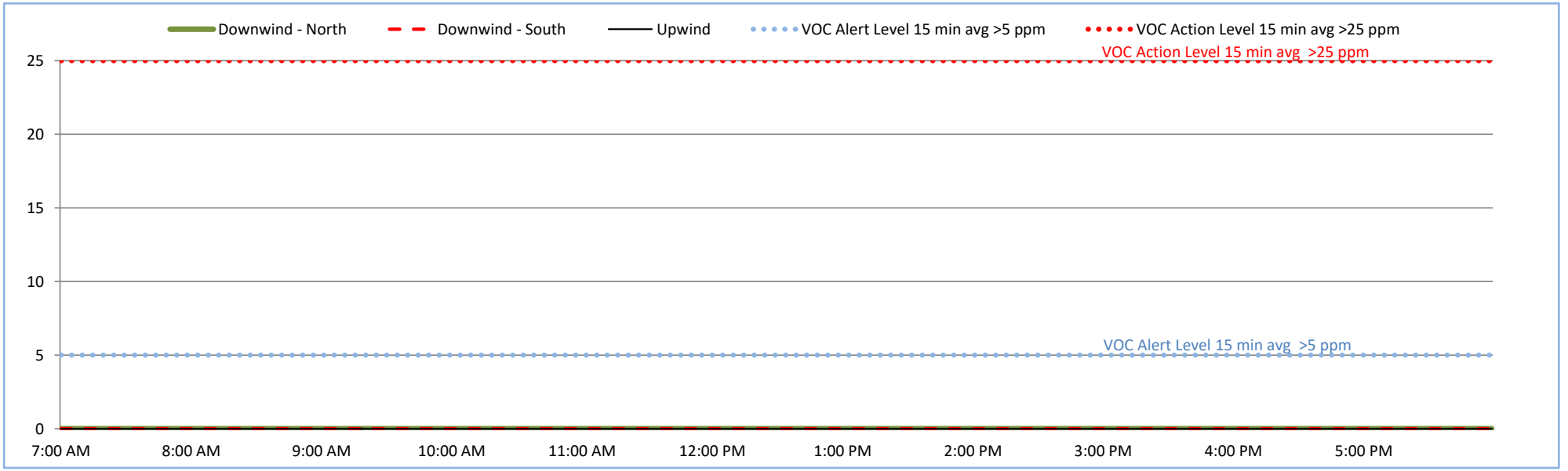


Fixed Station Daily Air Monitoring - January 20, 2023

Dust (mg/m3) 15 min avg

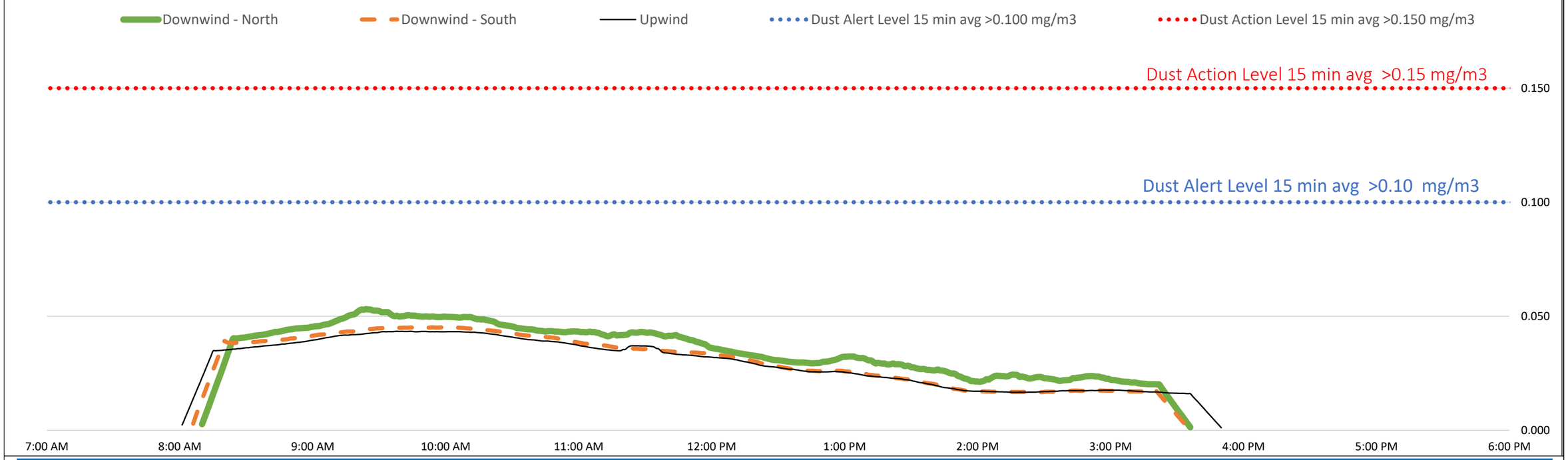


VOC (ppm) 15 min avg

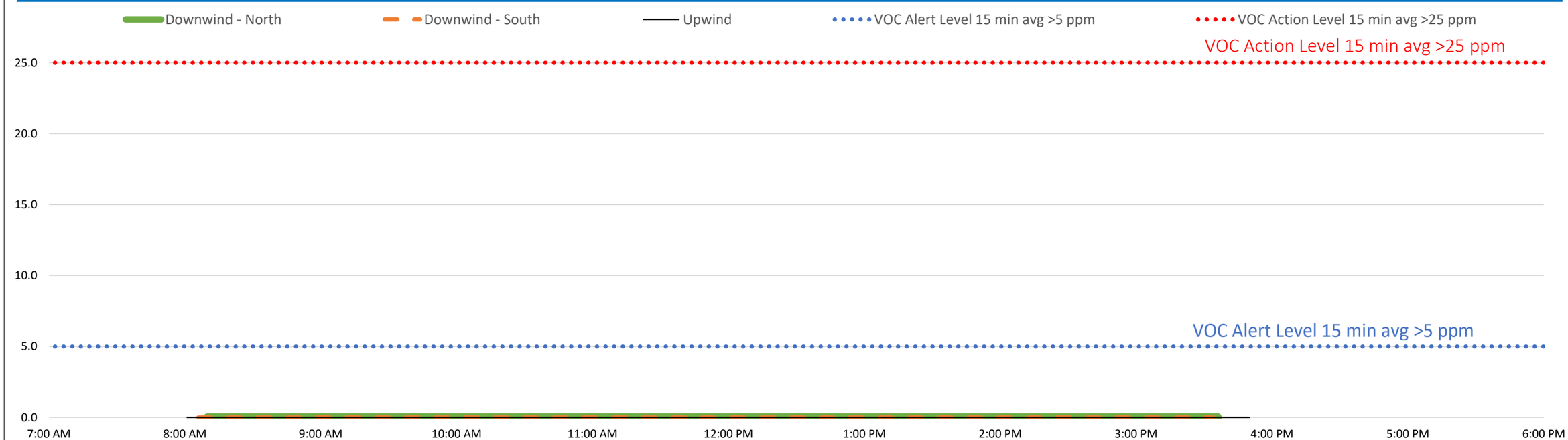


Fixed Station Daily Air Monitoring - January 24, 2023

Dust (mg/m3) 15 min avg

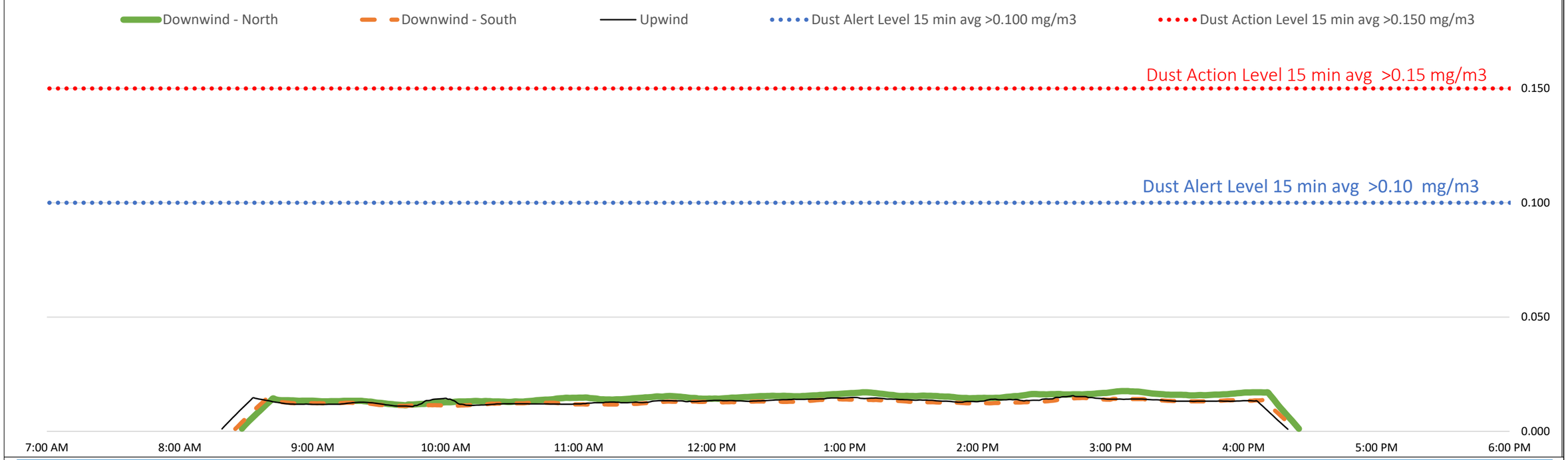


VOC (ppm) 15 min avg

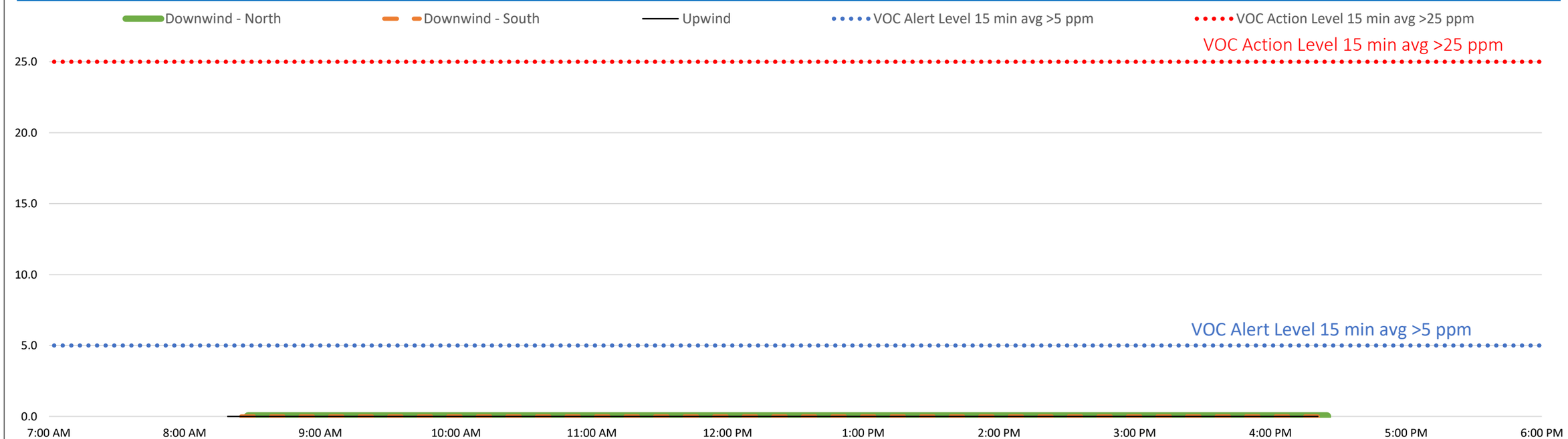


Fixed Station Daily Air Monitoring - January 25, 2023

Dust (mg/m3) 15 min avg

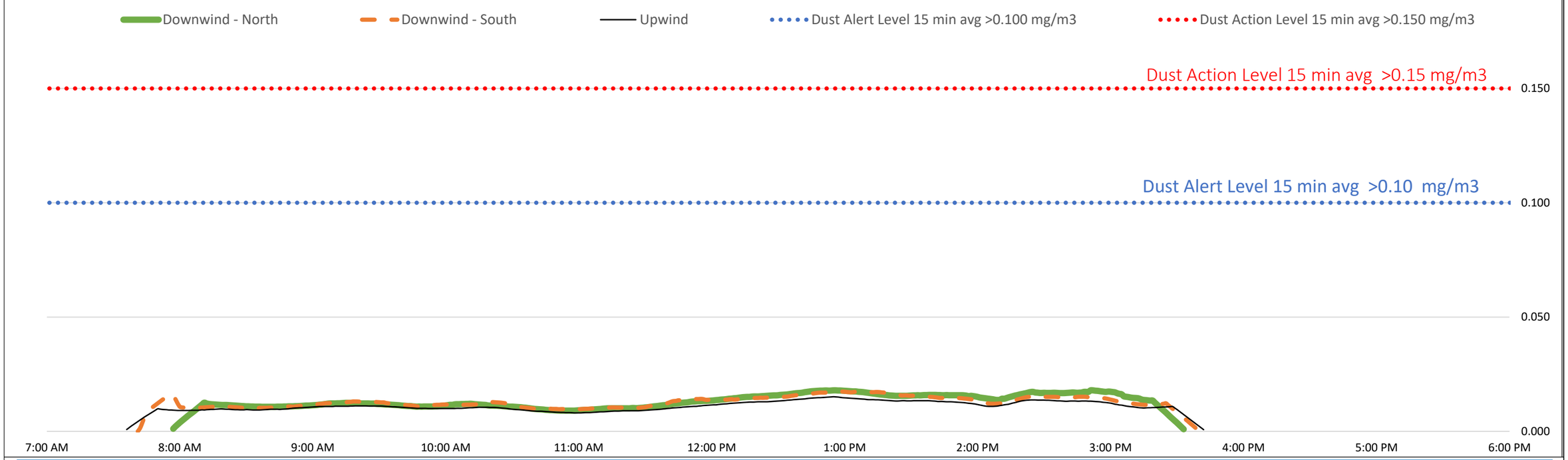


VOC (ppm) 15 min avg

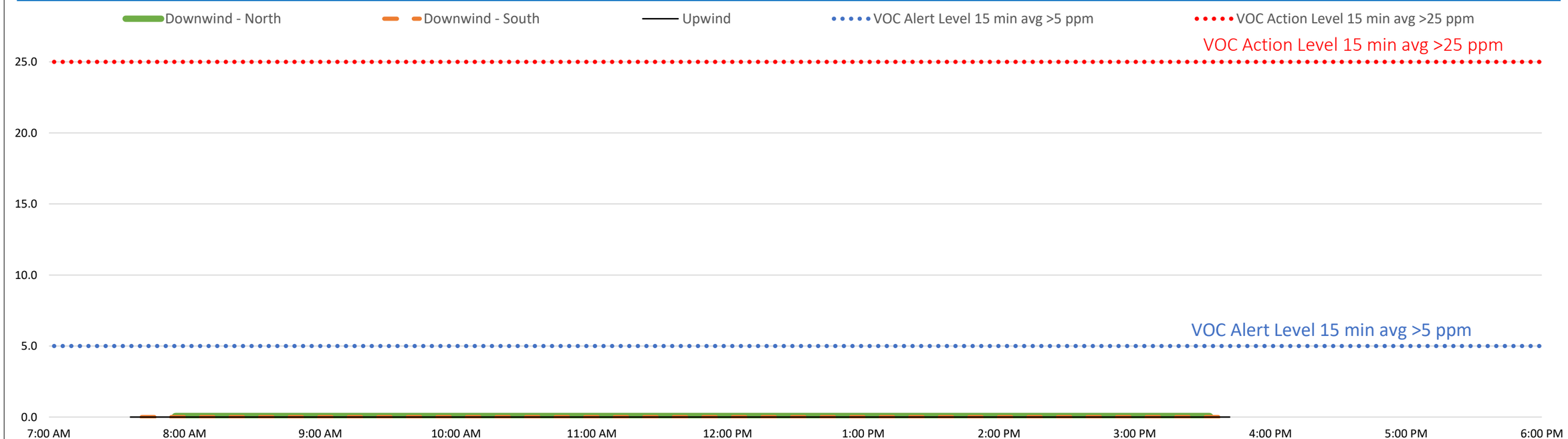


Fixed Station Daily Air Monitoring - January 26, 2023

Dust (mg/m3) 15 min avg

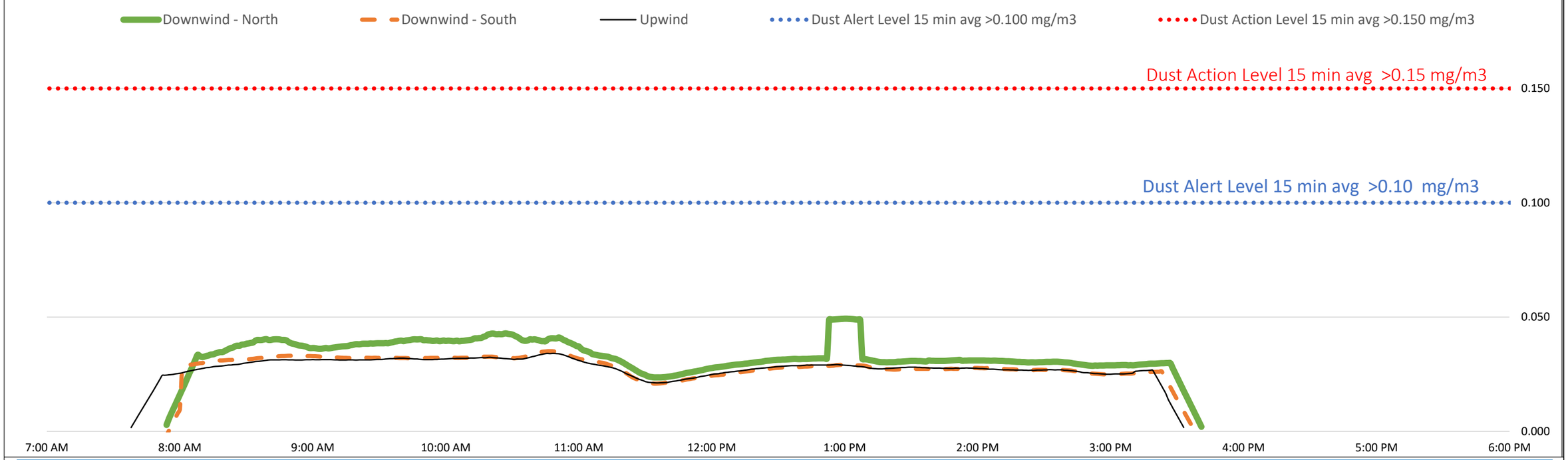


VOC (ppm) 15 min avg

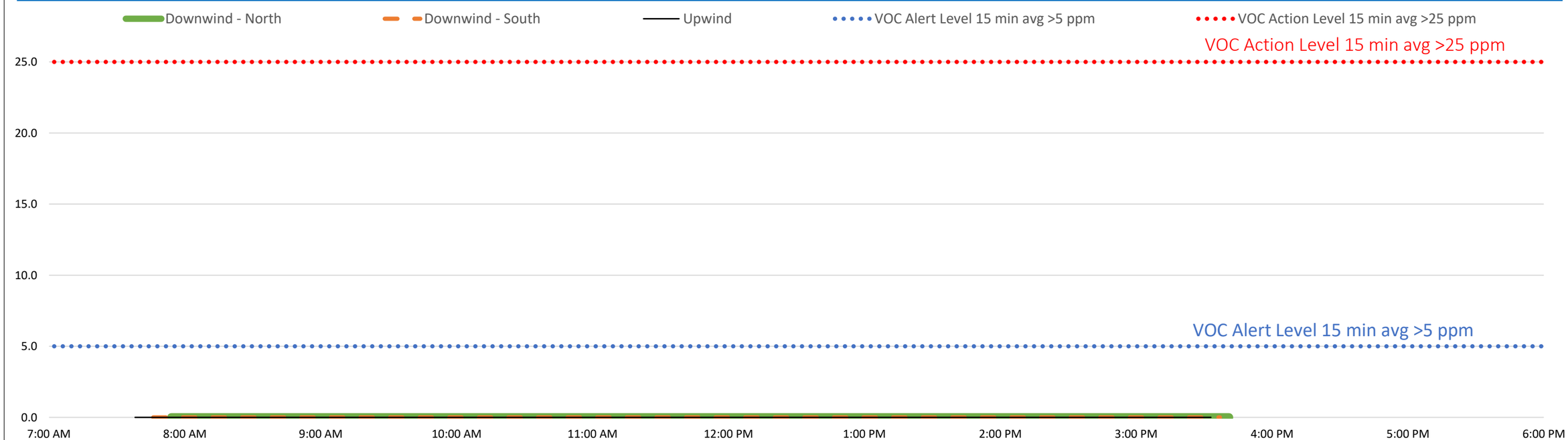


Fixed Station Daily Air Monitoring - January 27, 2023

Dust (mg/m3) 15 min avg

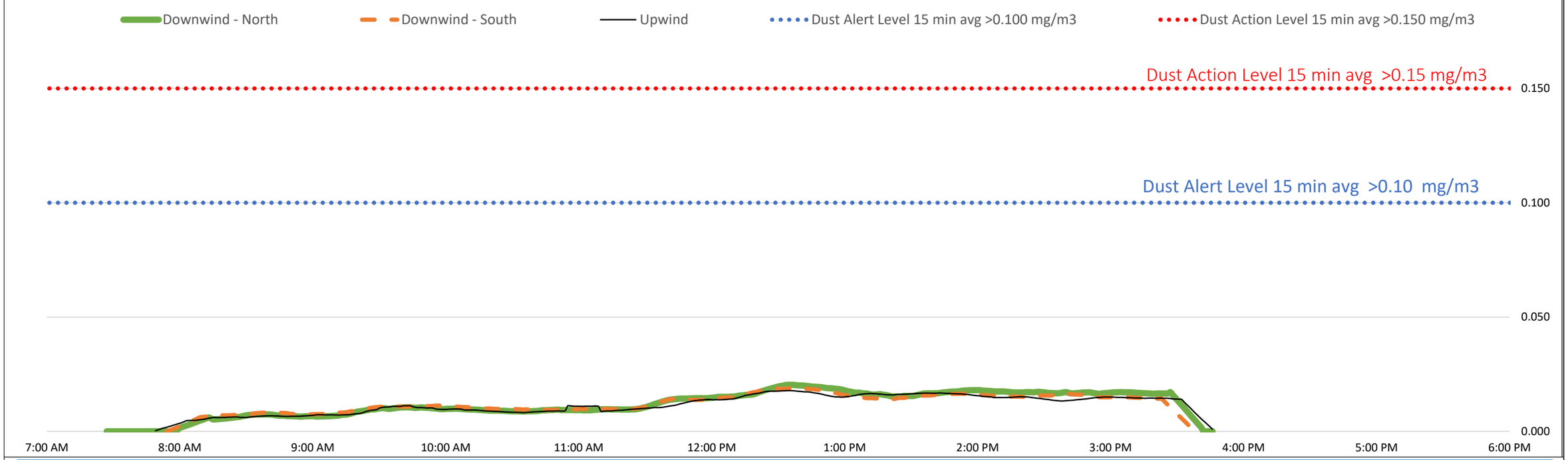


VOC (ppm) 15 min avg

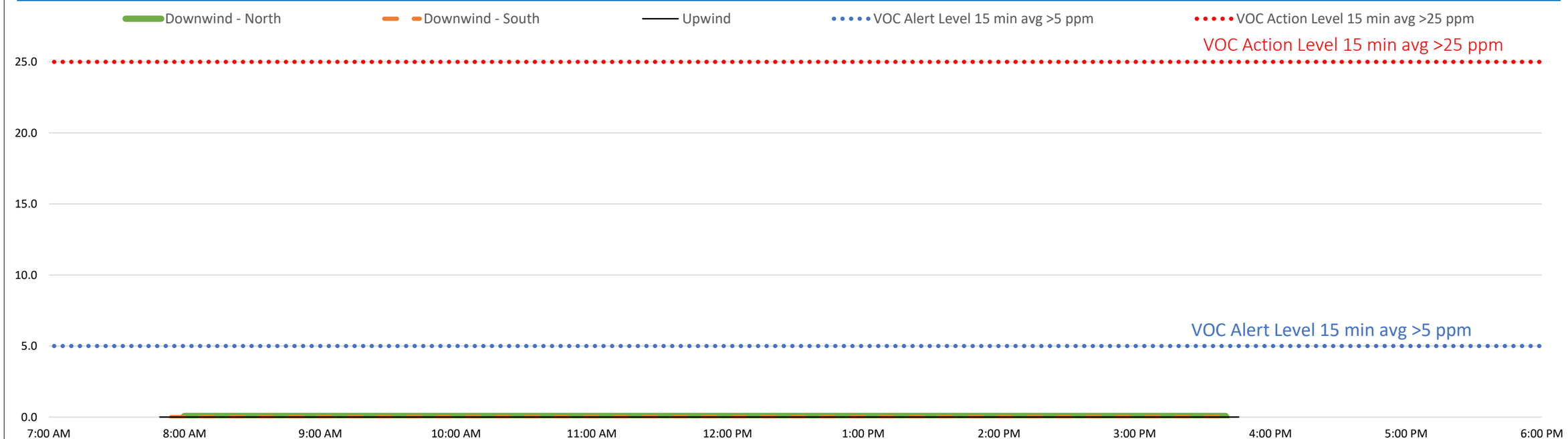


Fixed Station Daily Air Monitoring - January 30, 2023

Dust (mg/m3) 15 min avg

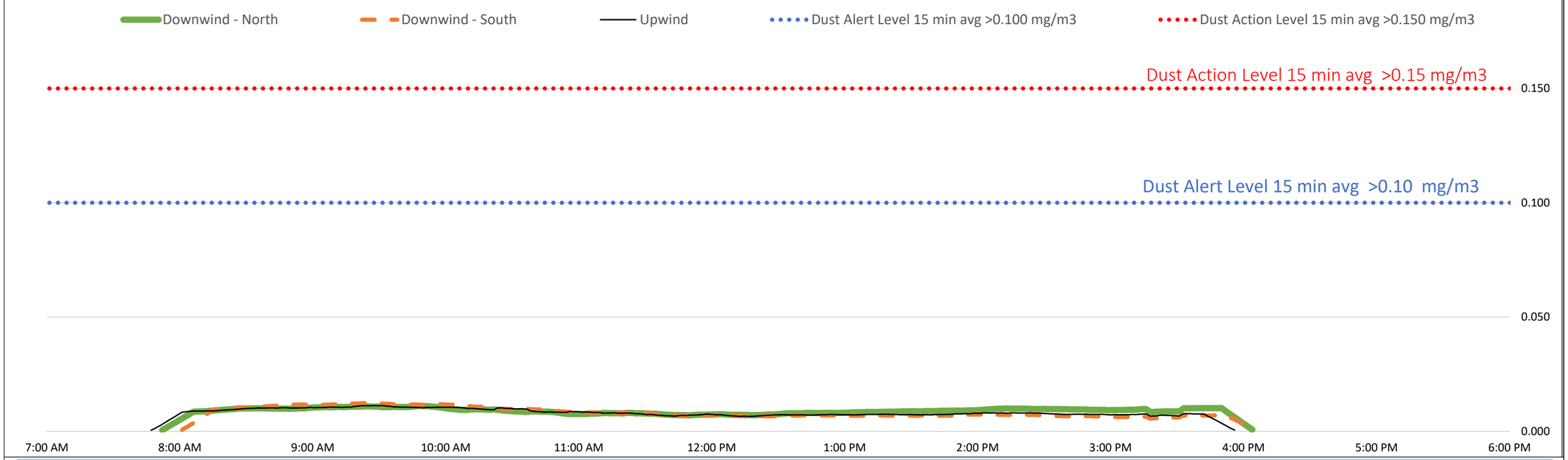


VOC (ppm) 15 min avg

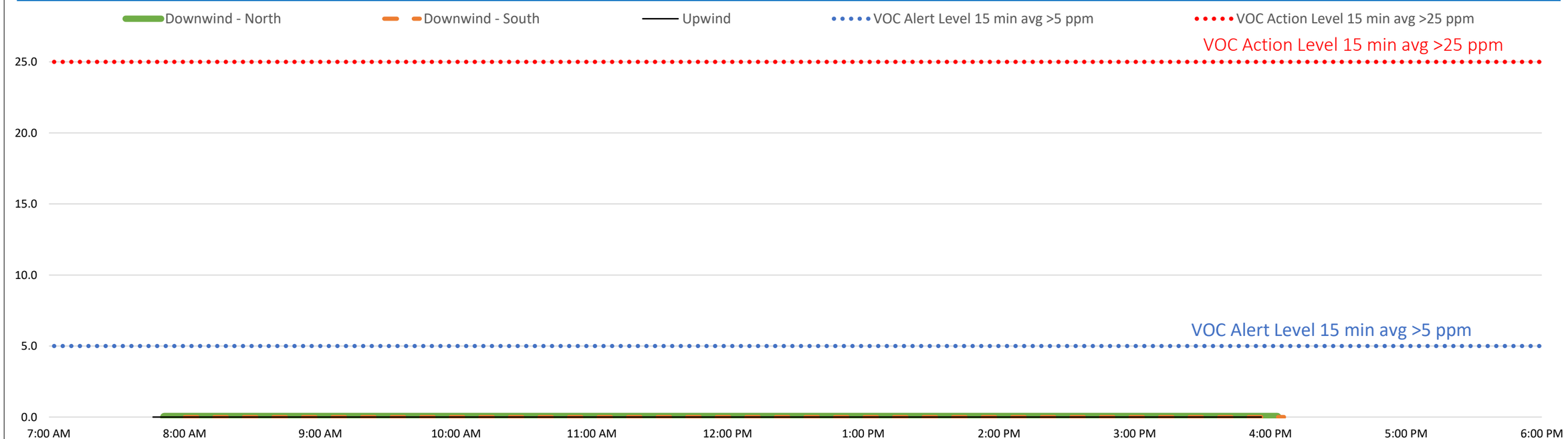


Fixed Station Daily Air Monitoring - January 31, 2023

Dust (mg/m3) 15 min avg

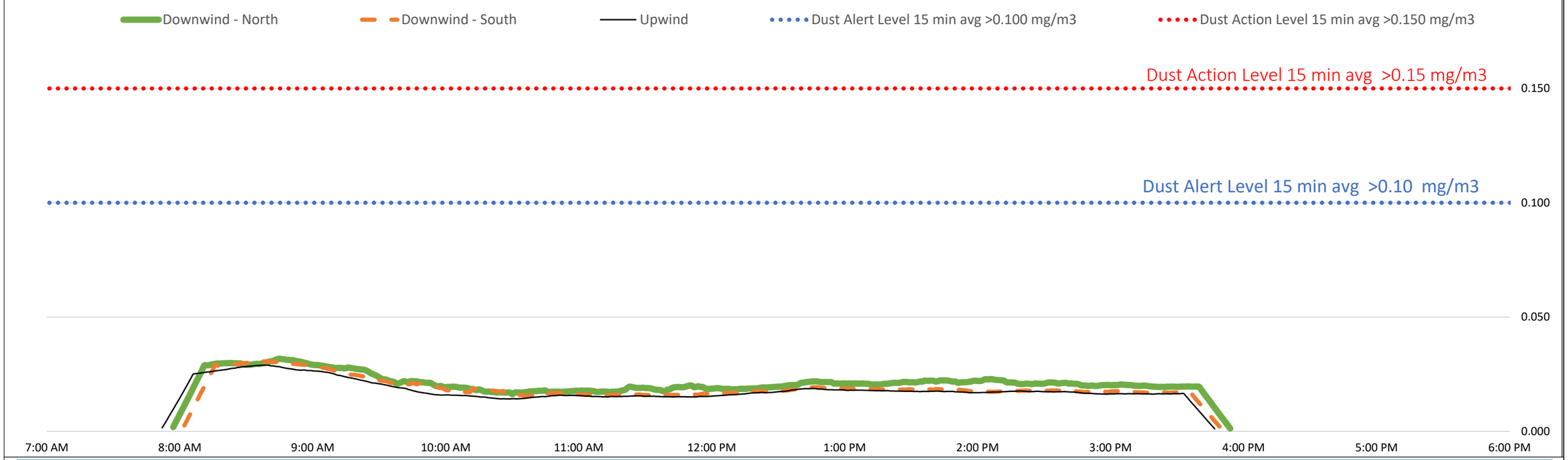


VOC (ppm) 15 min avg

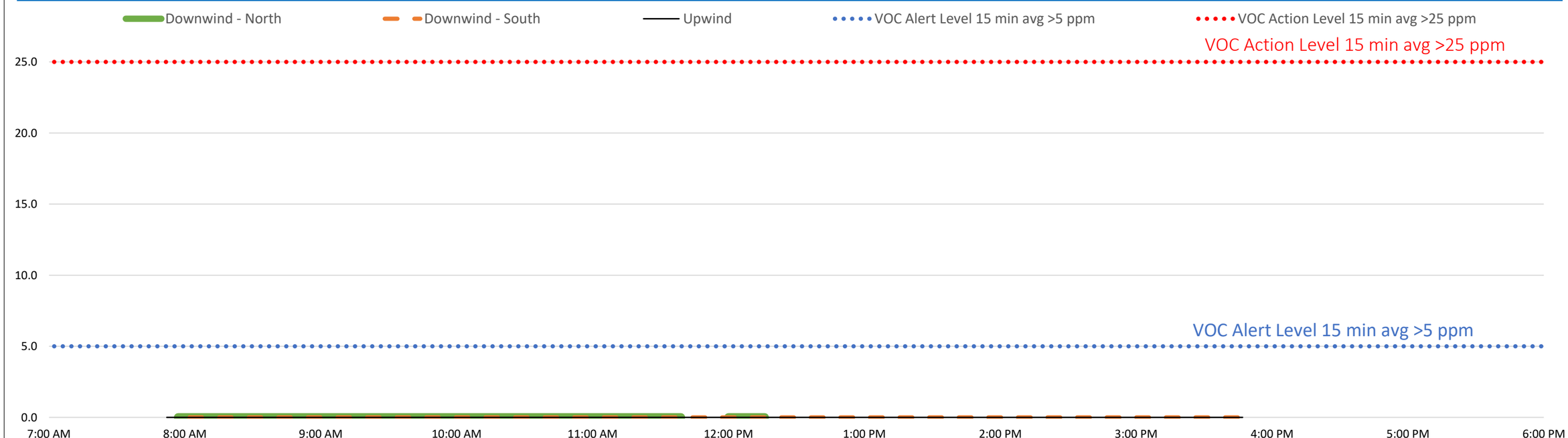


Fixed Station Daily Air Monitoring - February 1, 2023

Dust (mg/m3) 15 min avg

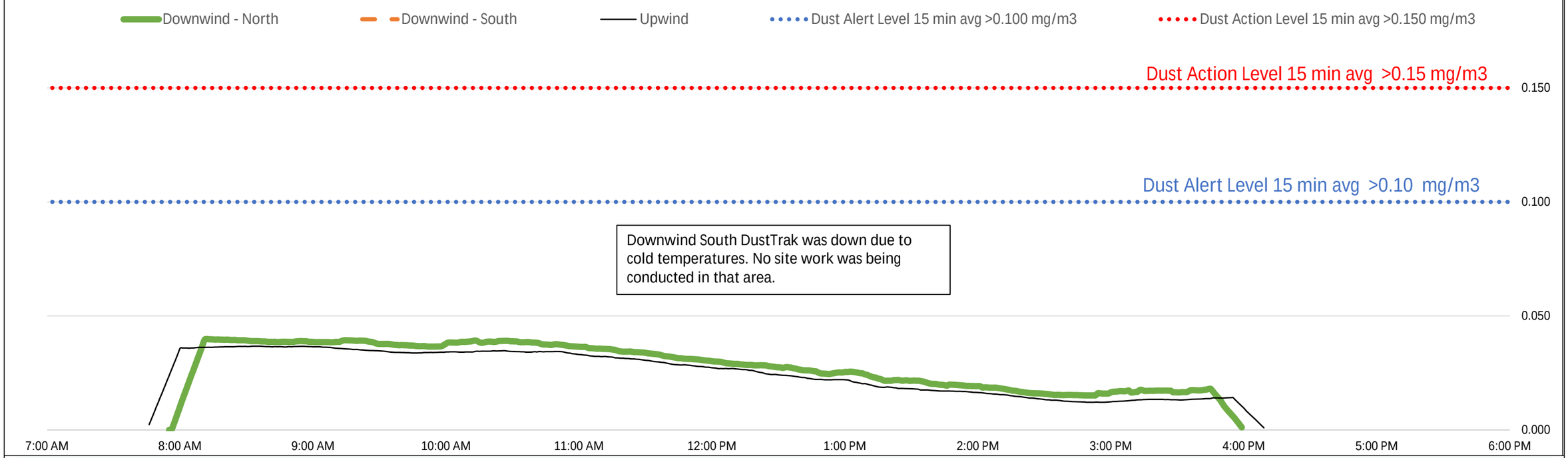


VOC (ppm) 15 min avg

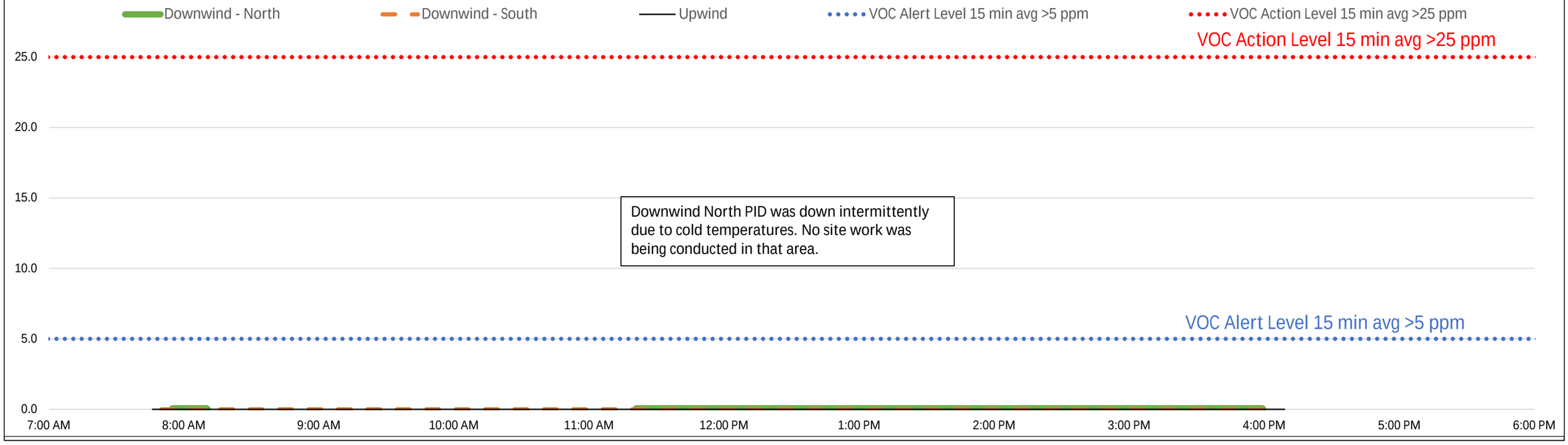


Fixed Station Daily Air Monitoring - February 02, 2023

Dust (mg/m3) 15 min avg

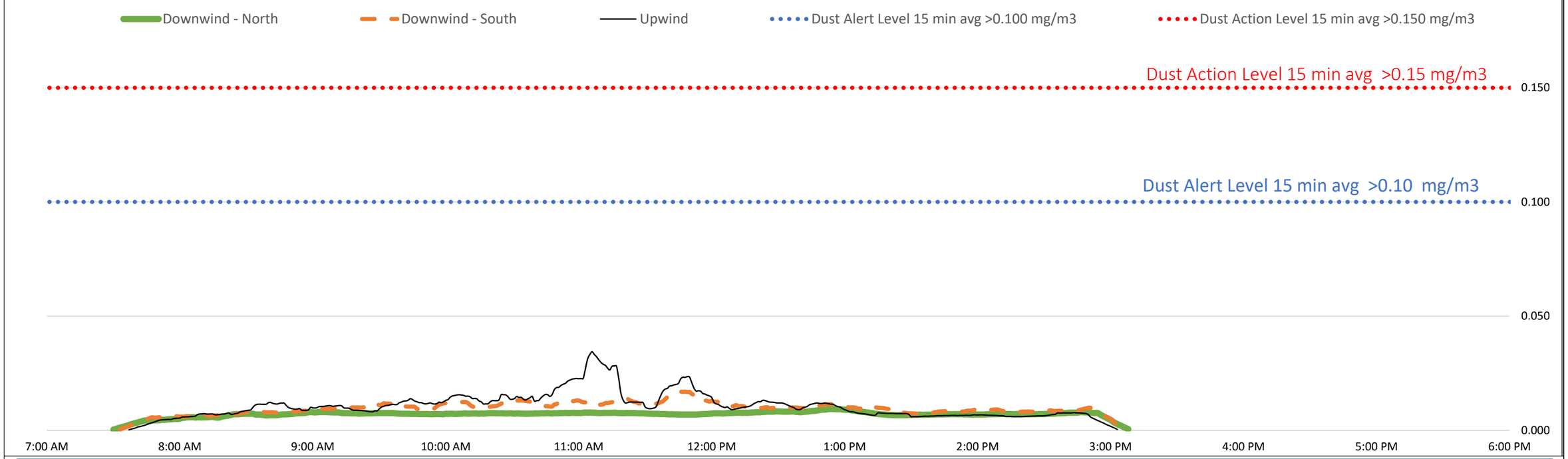


VOC (ppm) 15 min avg

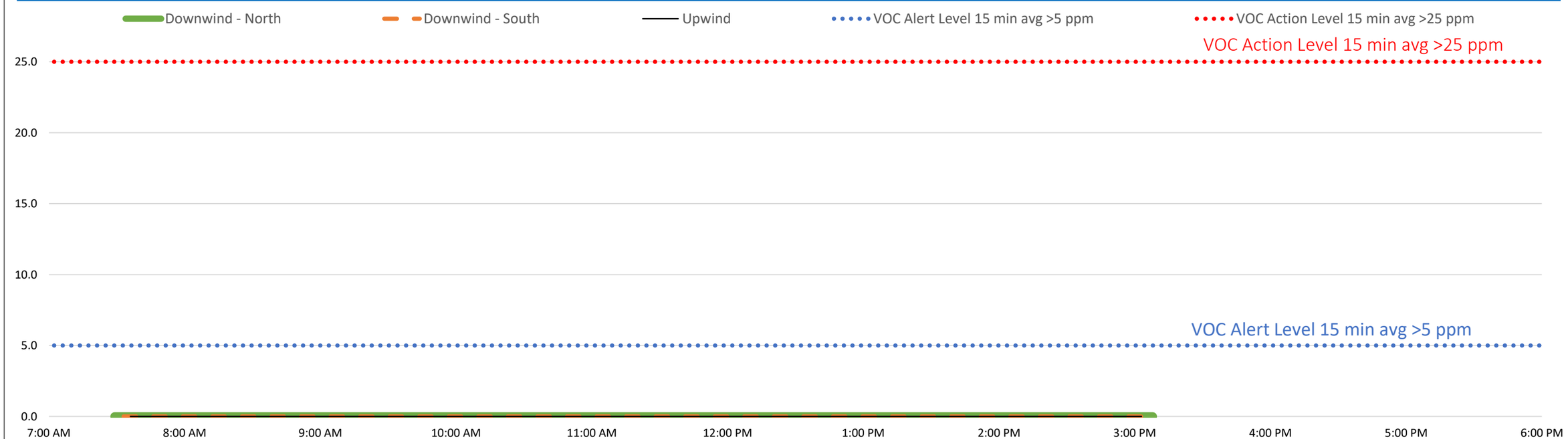


Fixed Station Daily Air Monitoring - February 3, 2023

Dust (mg/m3) 15 min avg

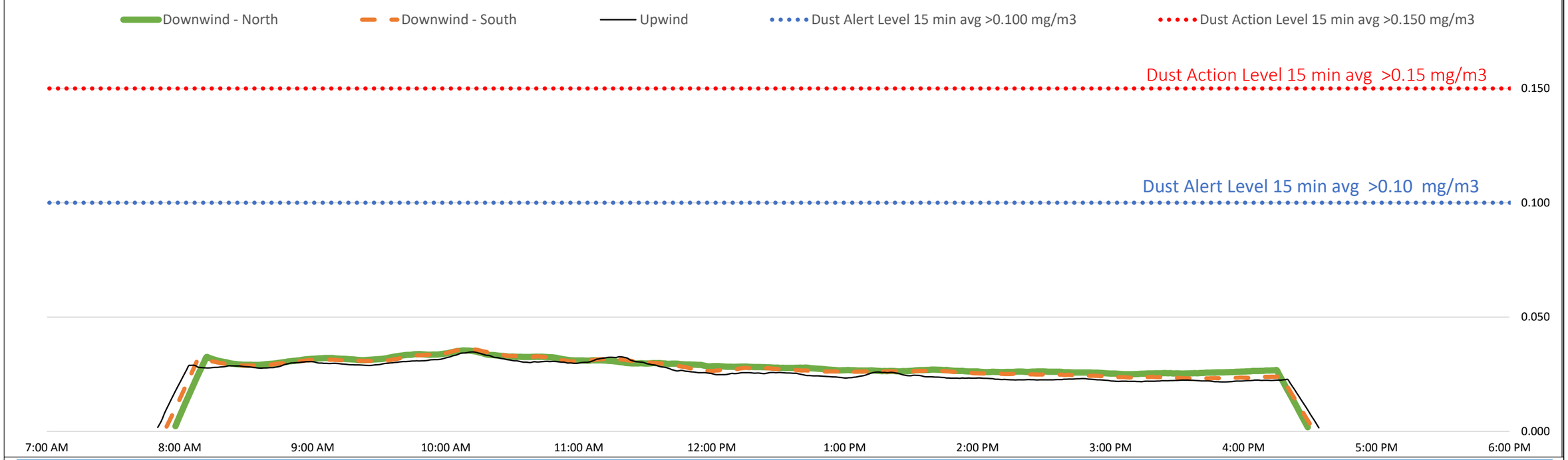


VOC (ppm) 15 min avg

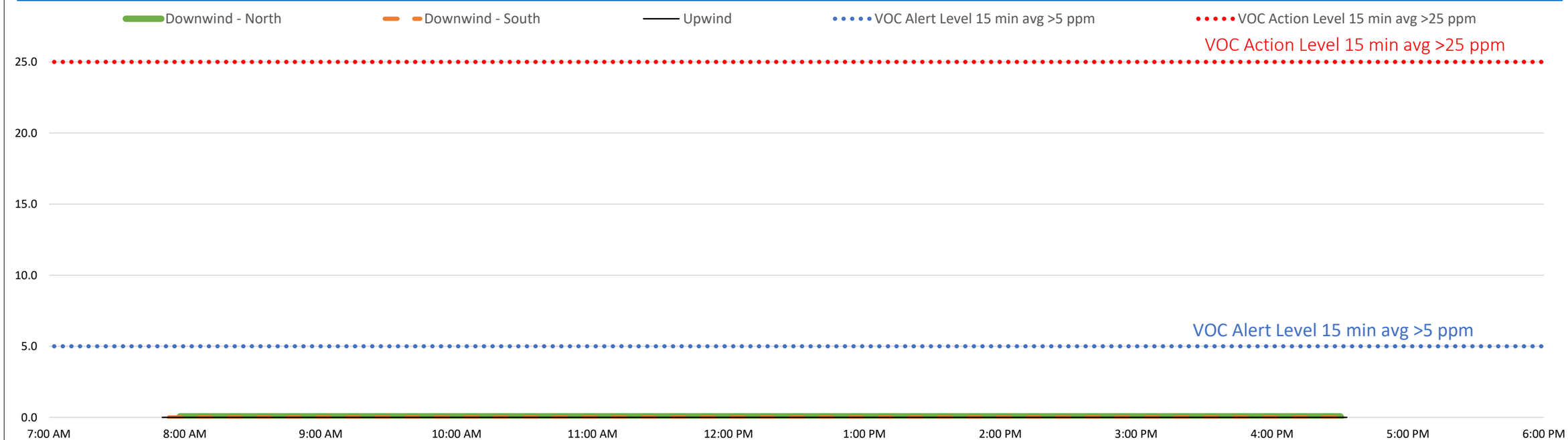


Fixed Station Daily Air Monitoring - February 6, 2023

Dust (mg/m3) 15 min avg

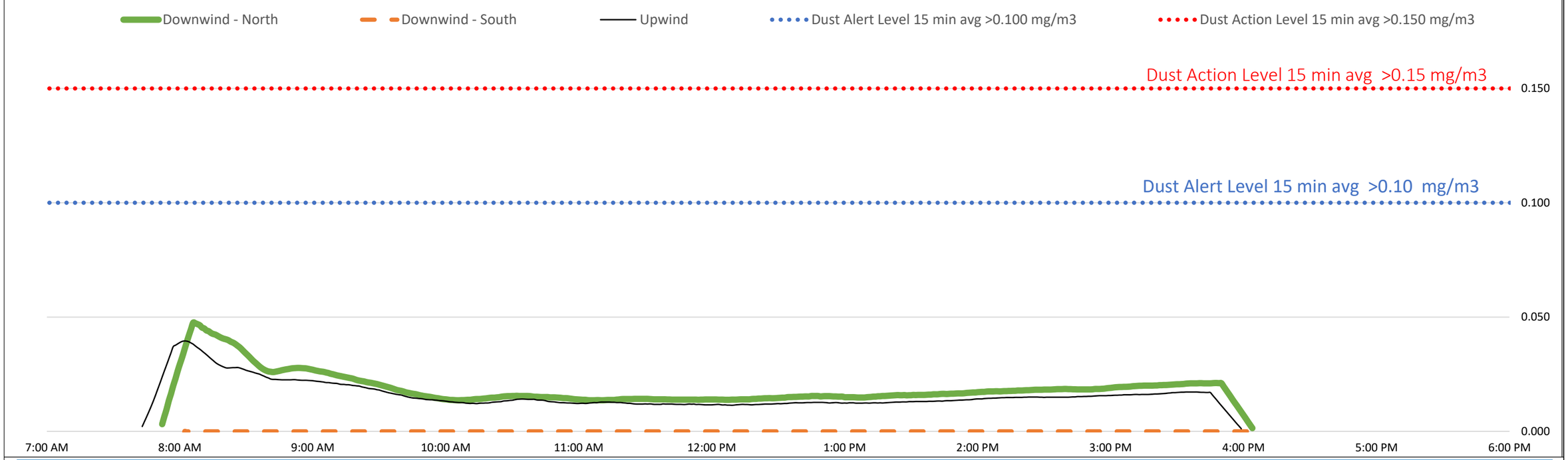


VOC (ppm) 15 min avg

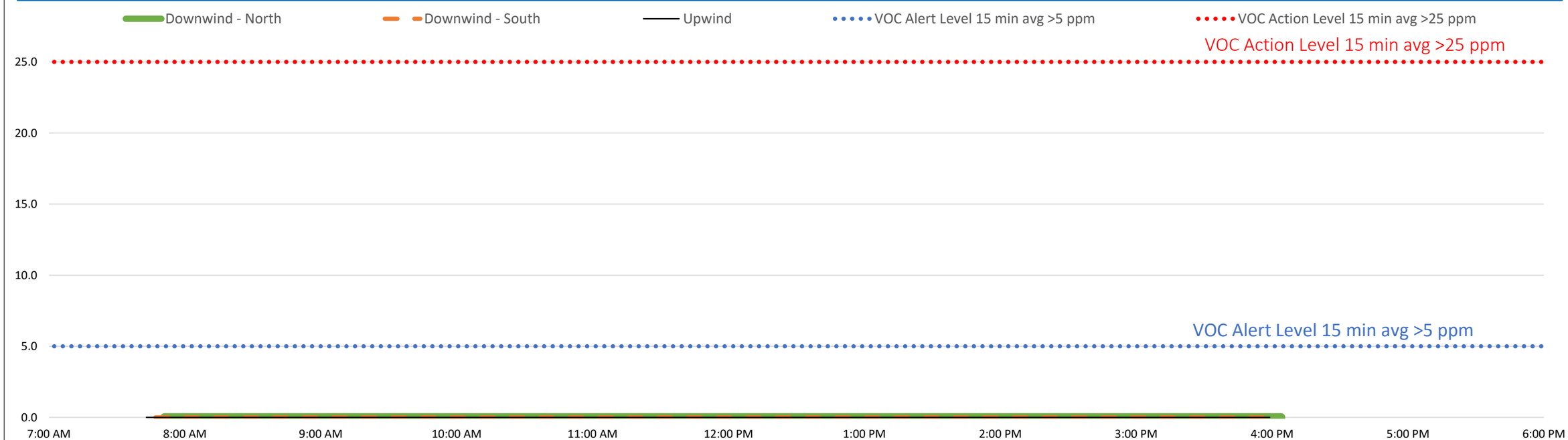


Fixed Station Daily Air Monitoring - February 7, 2023

Dust (mg/m3) 15 min avg

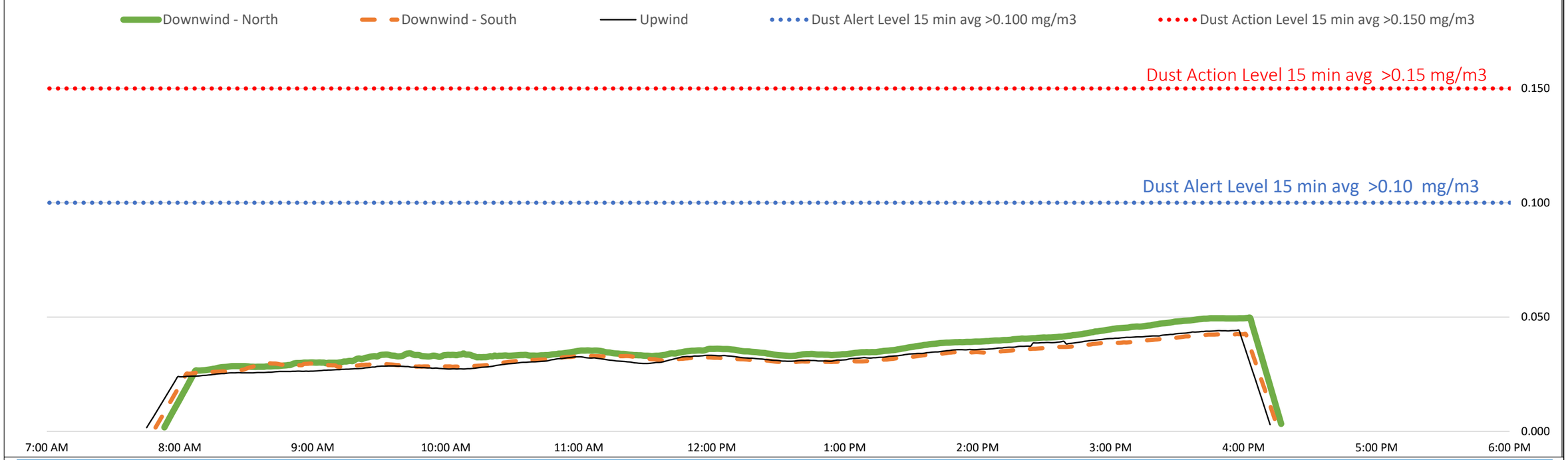


VOC (ppm) 15 min avg

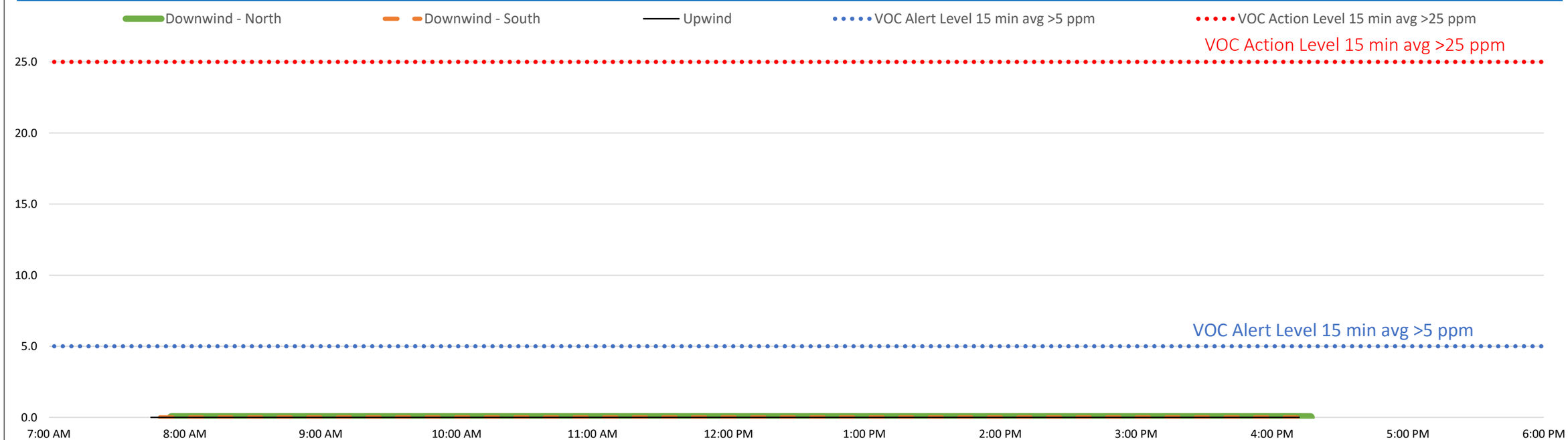


Fixed Station Daily Air Monitoring - February 8, 2023

Dust (mg/m3) 15 min avg

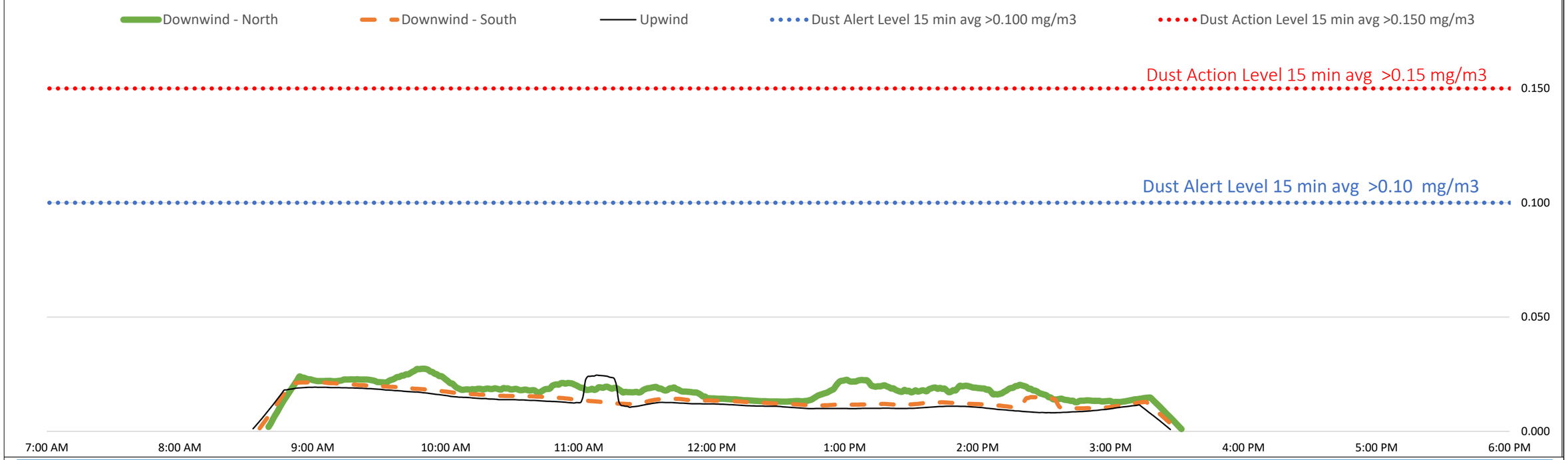


VOC (ppm) 15 min avg

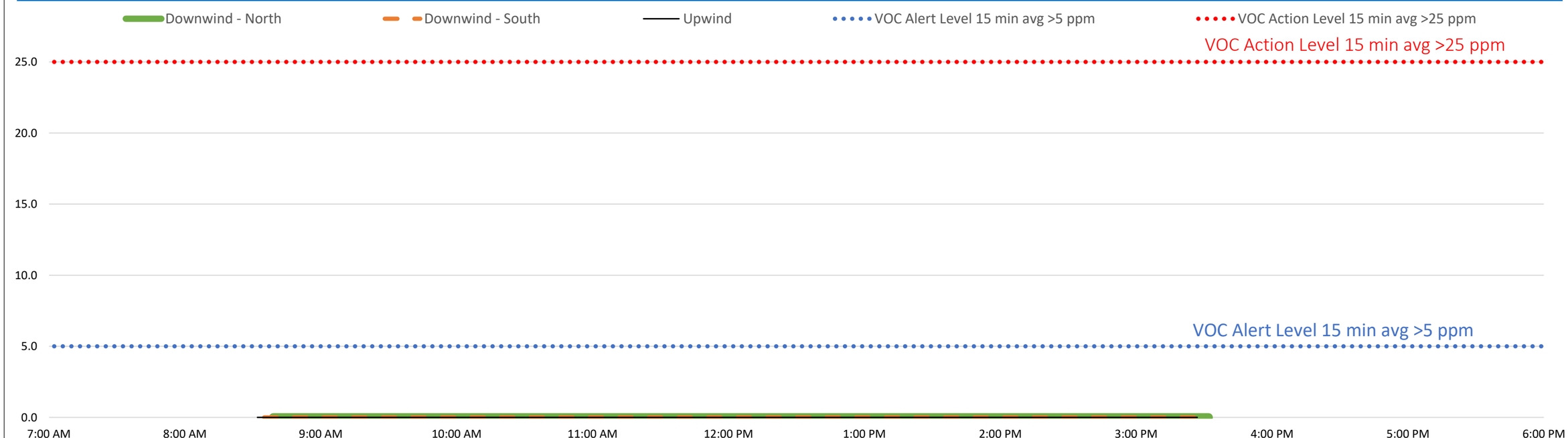


Fixed Station Daily Air Monitoring - February 10, 2023

Dust (mg/m3) 15 min avg

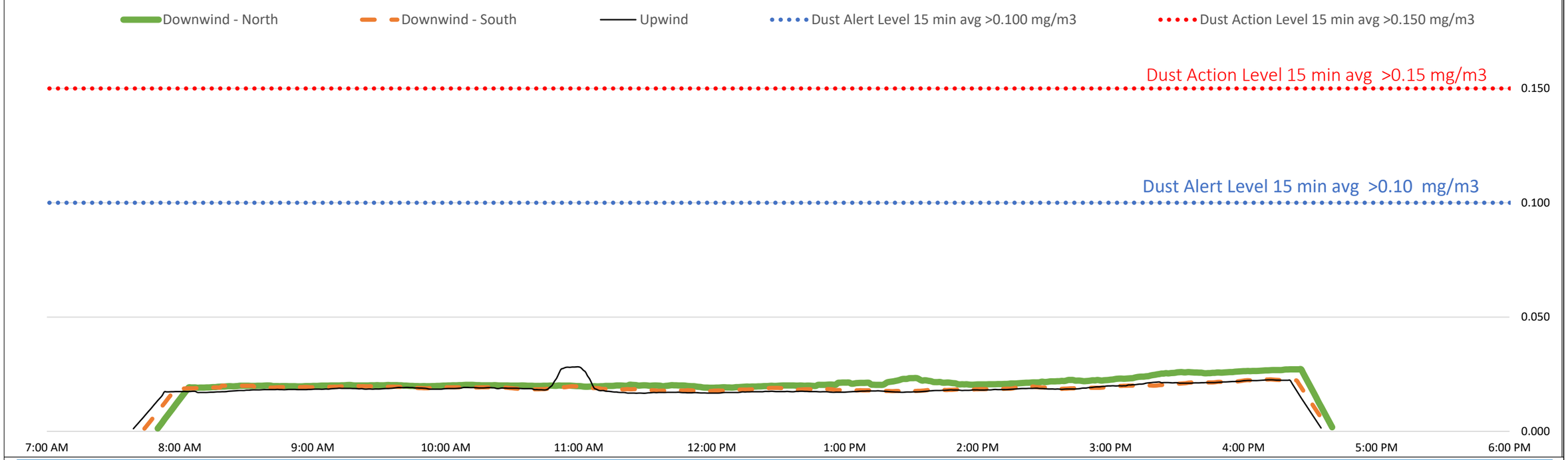


VOC (ppm) 15 min avg

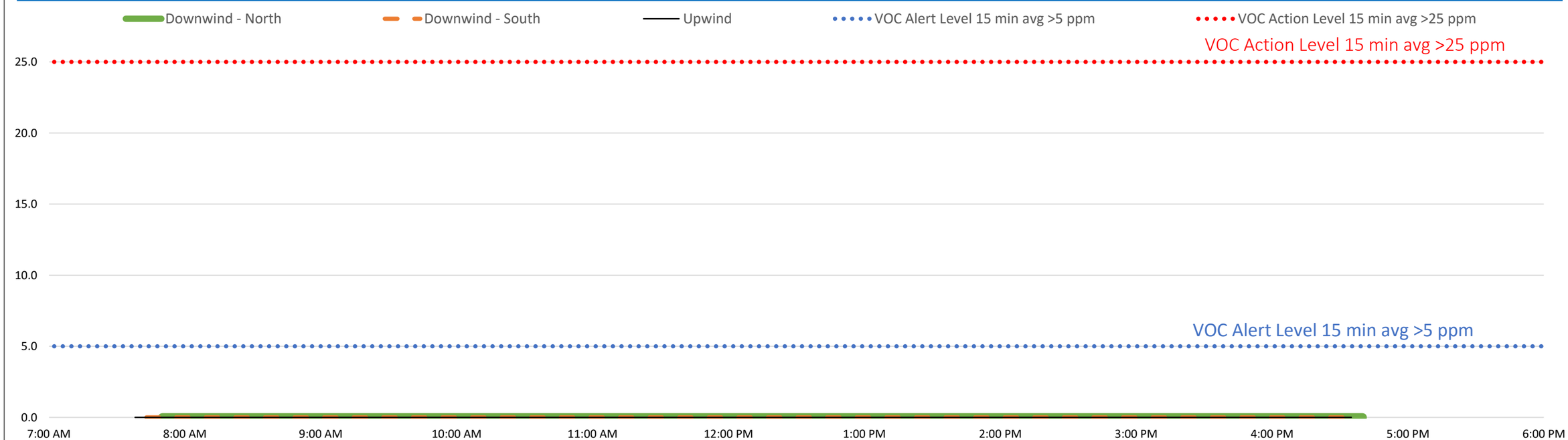


Fixed Station Daily Air Monitoring - February 13, 2023

Dust (mg/m3) 15 min avg

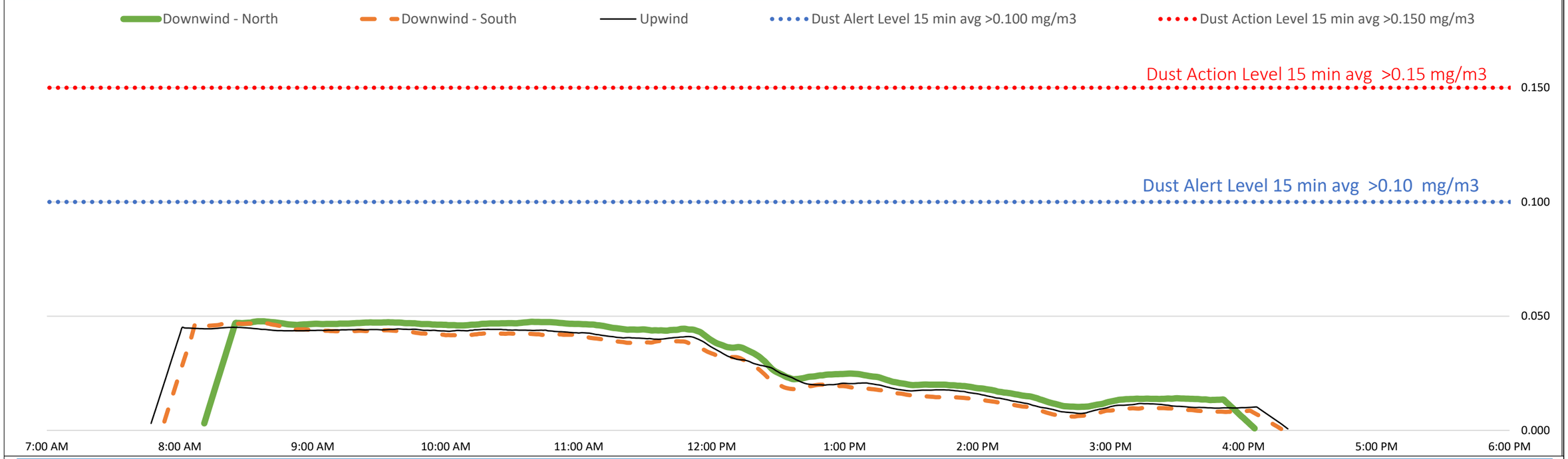


VOC (ppm) 15 min avg

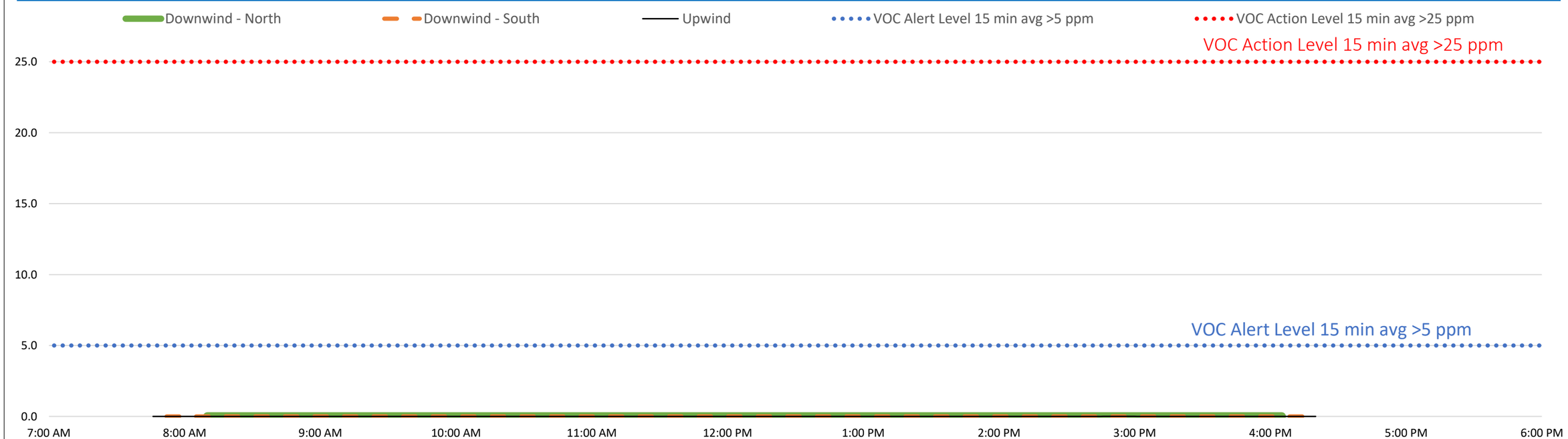


Fixed Station Daily Air Monitoring - February 14, 2023

Dust (mg/m3) 15 min avg

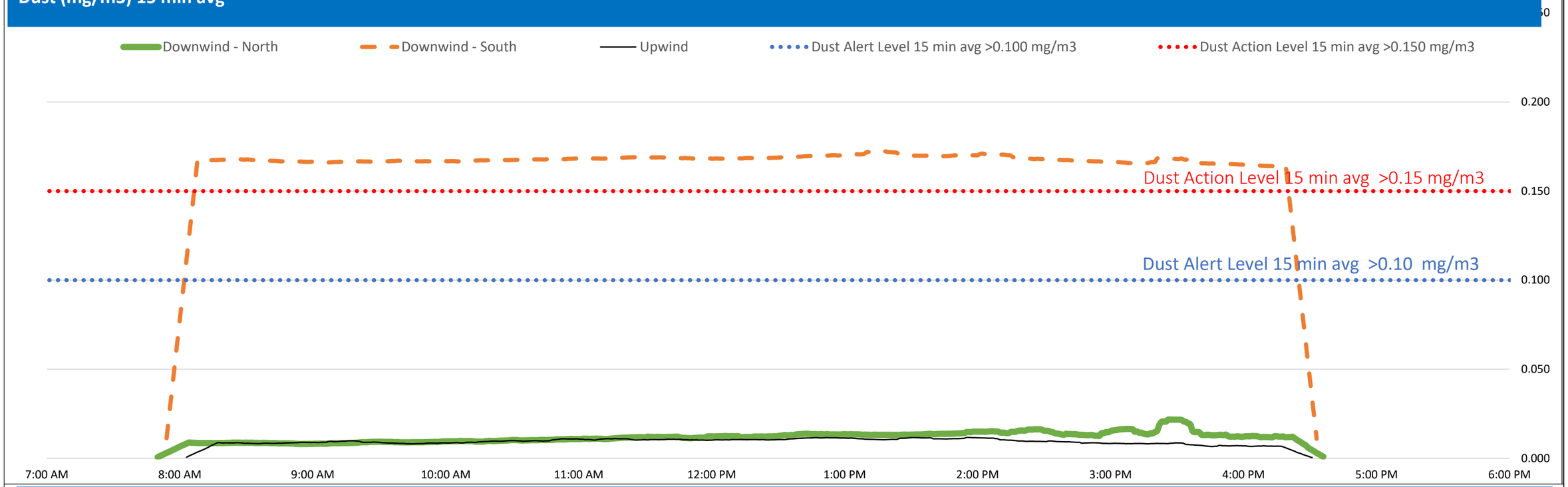


VOC (ppm) 15 min avg

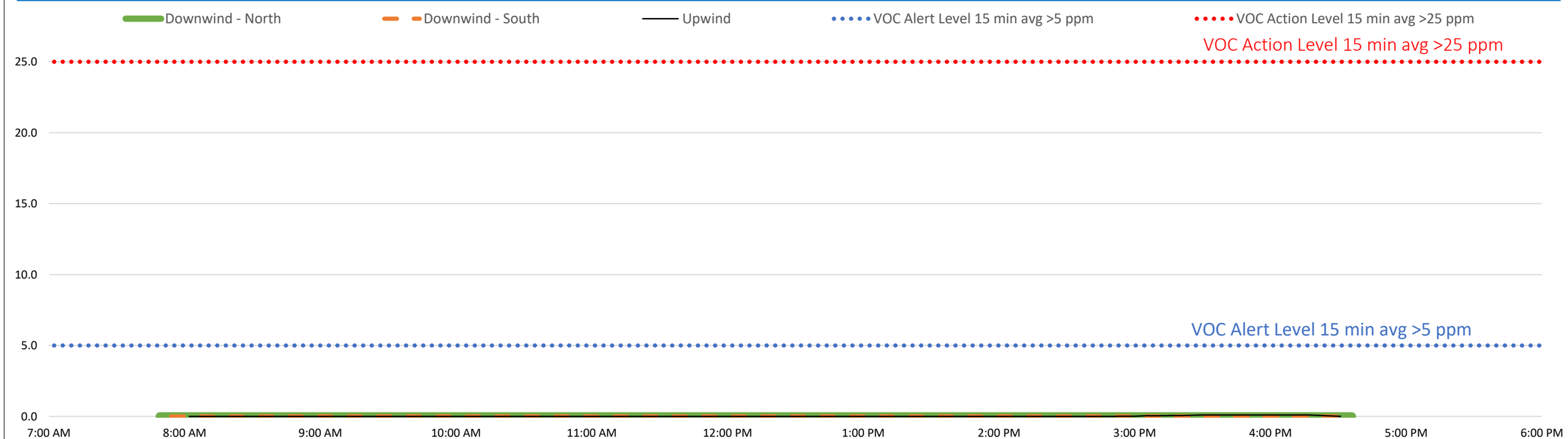


Fixed Station Daily Air Monitoring - February 15, 2023

Dust (mg/m3) 15 min avg

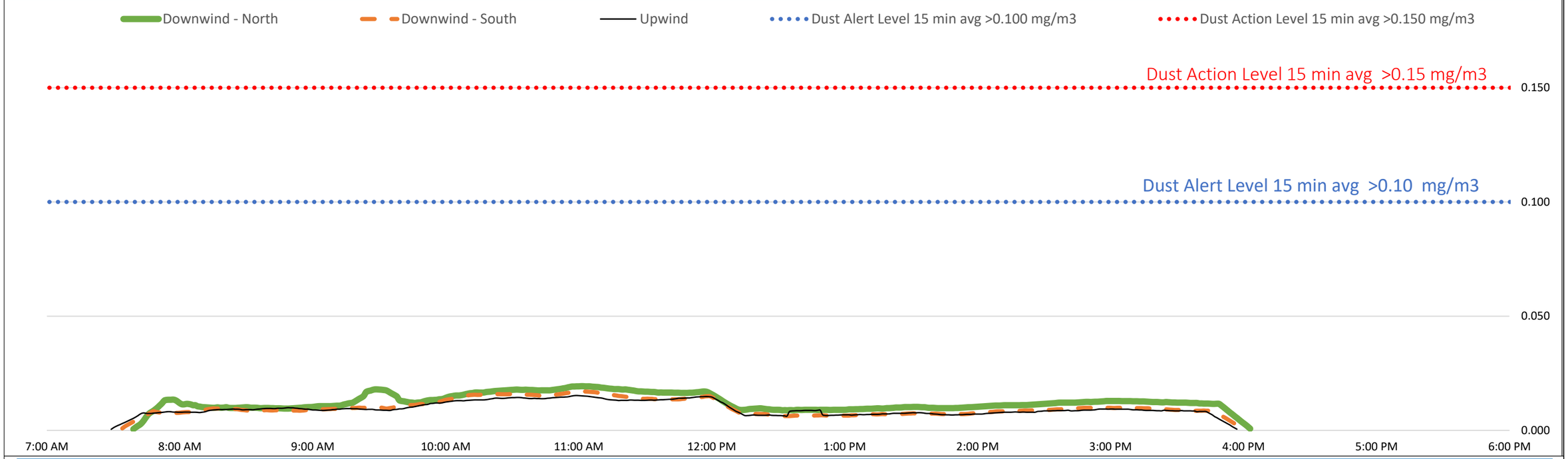


VOC (ppm) 15 min avg

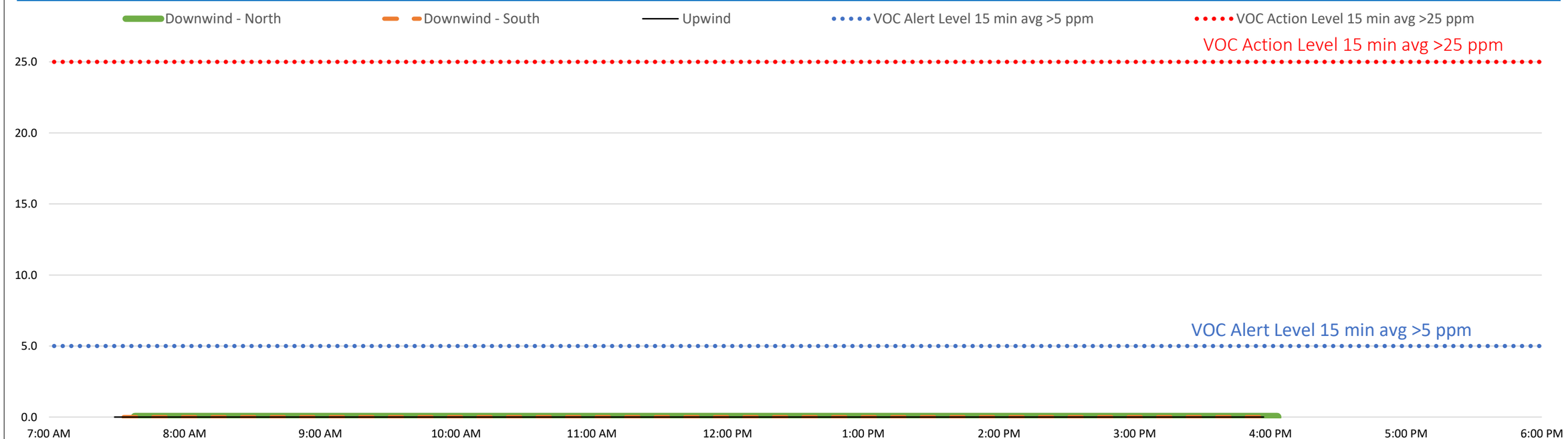


Fixed Station Daily Air Monitoring - February 16, 2023

Dust (mg/m3) 15 min avg

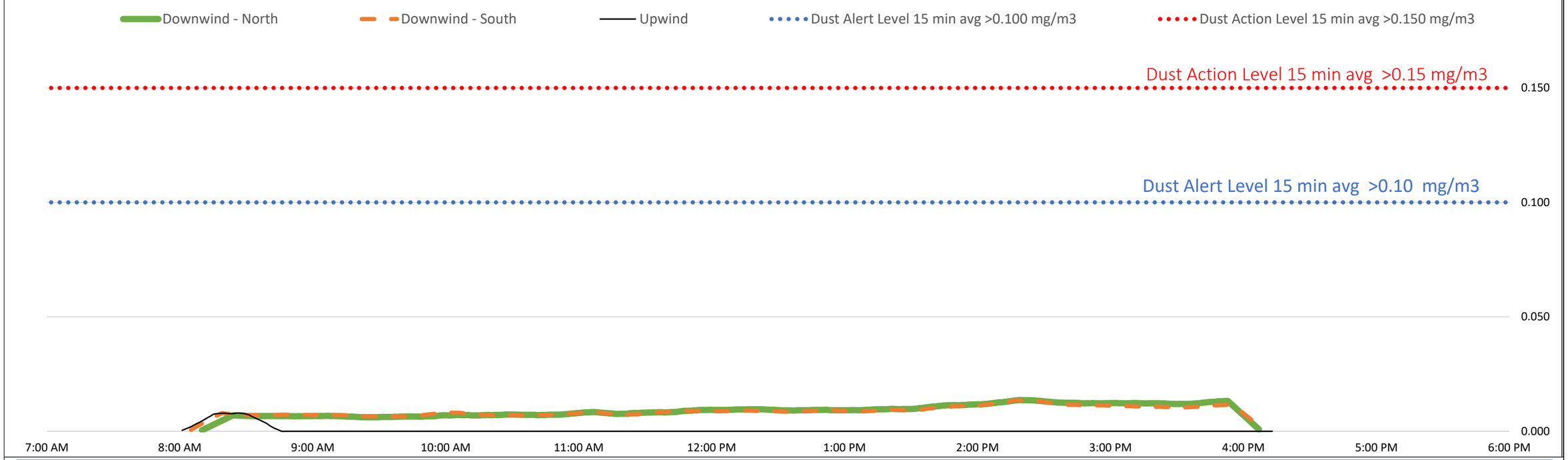


VOC (ppm) 15 min avg

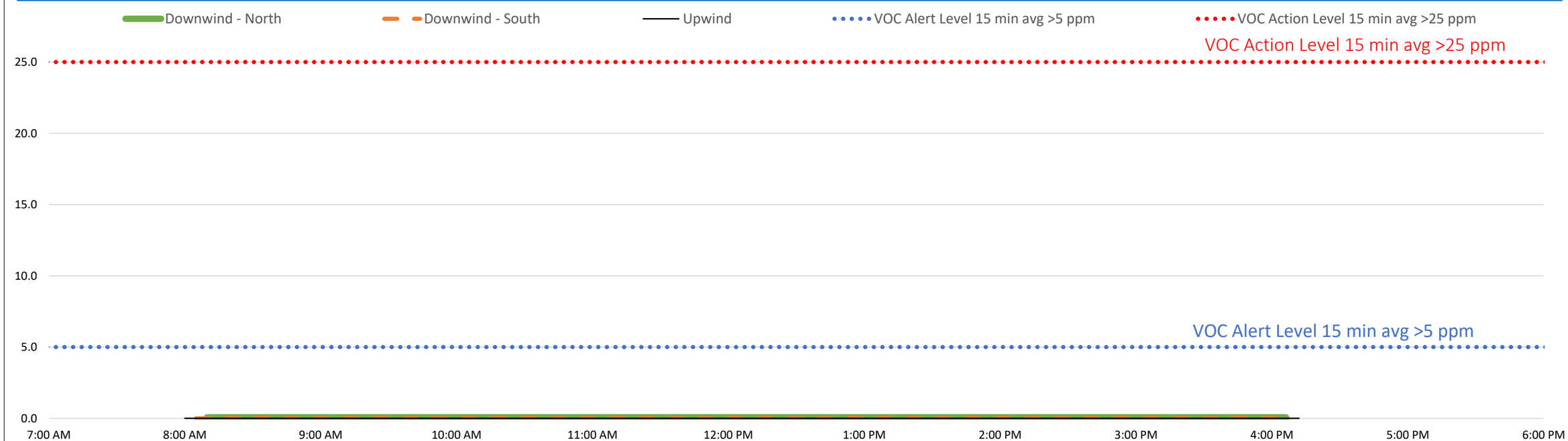


Fixed Station Daily Air Monitoring - February 17, 2023

Dust (mg/m3) 15 min avg

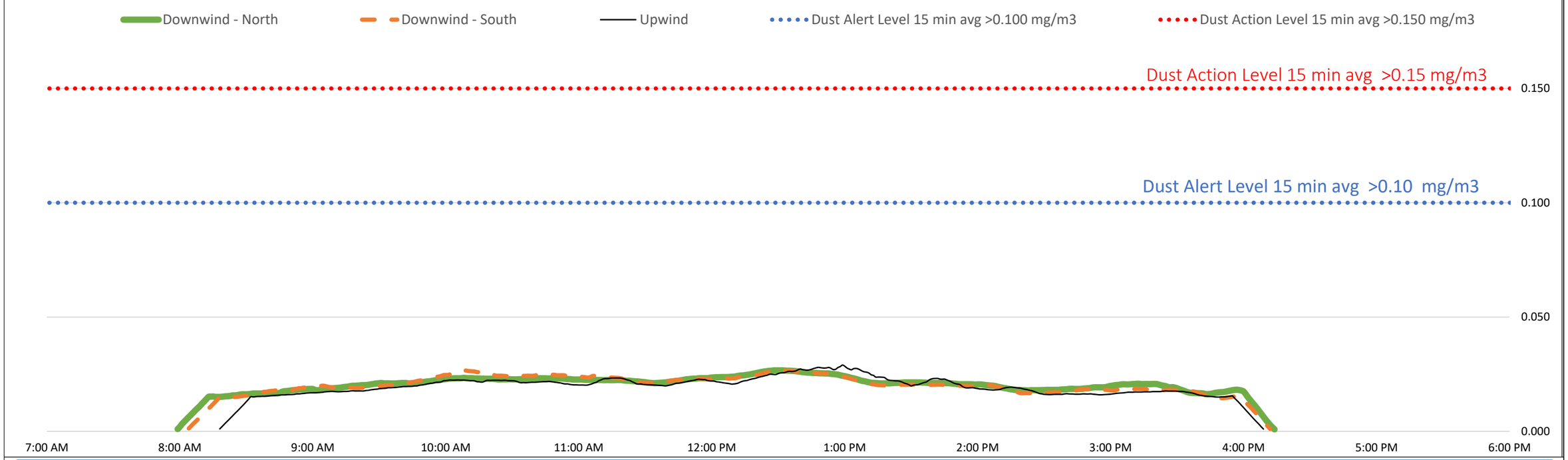


VOC (ppm) 15 min avg

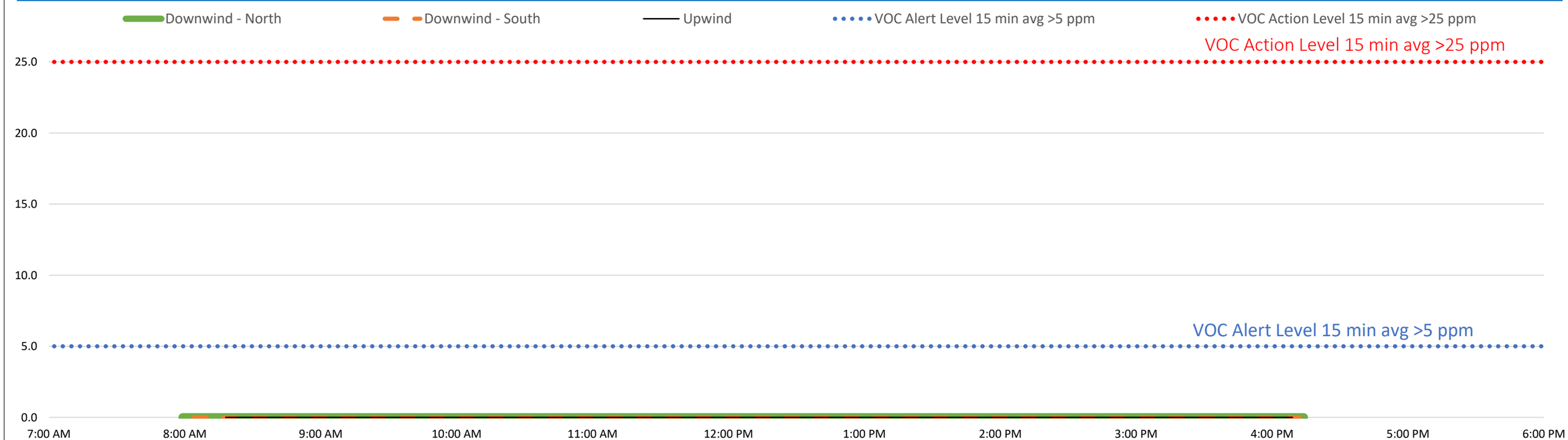


Fixed Station Daily Air Monitoring - February 20, 2023

Dust (mg/m3) 15 min avg

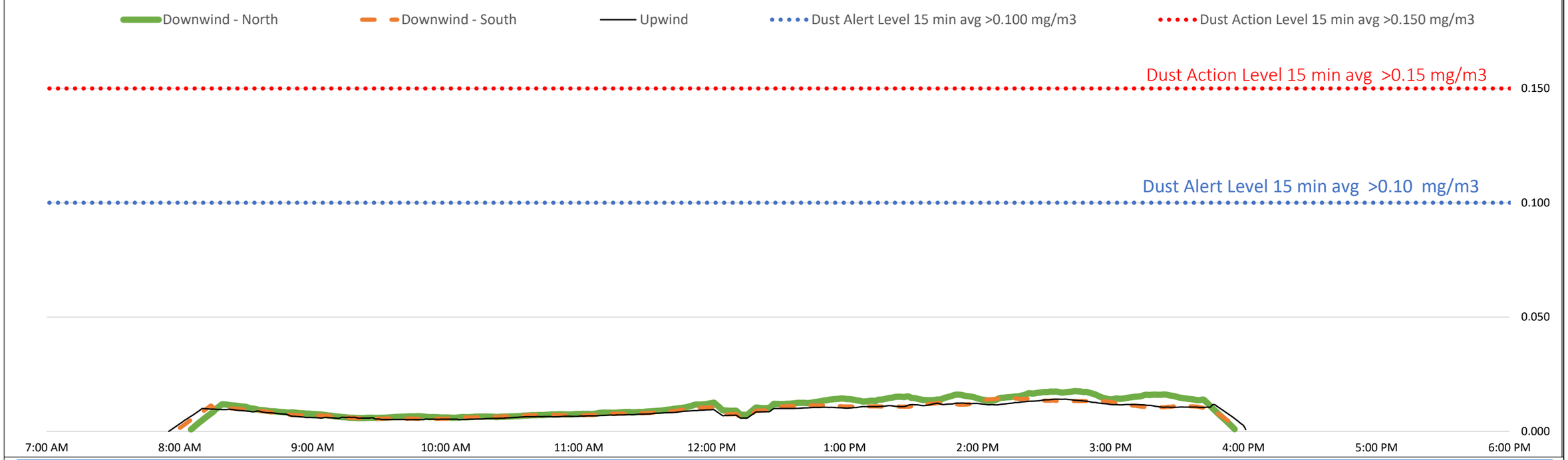


VOC (ppm) 15 min avg

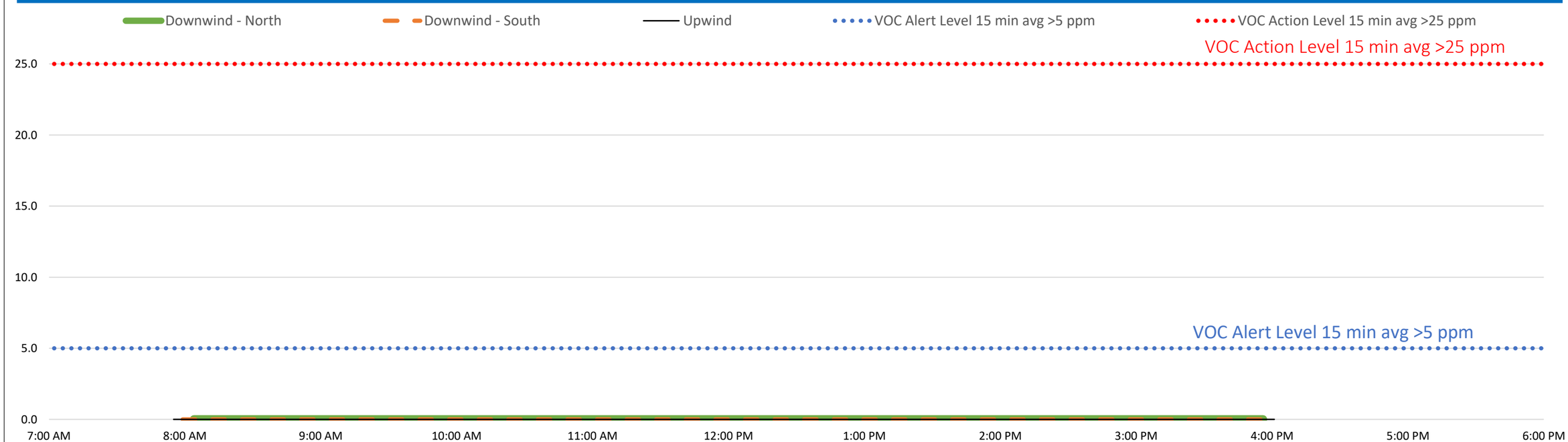


Fixed Station Daily Air Monitoring - February 22, 2023

Dust (mg/m3) 15 min avg

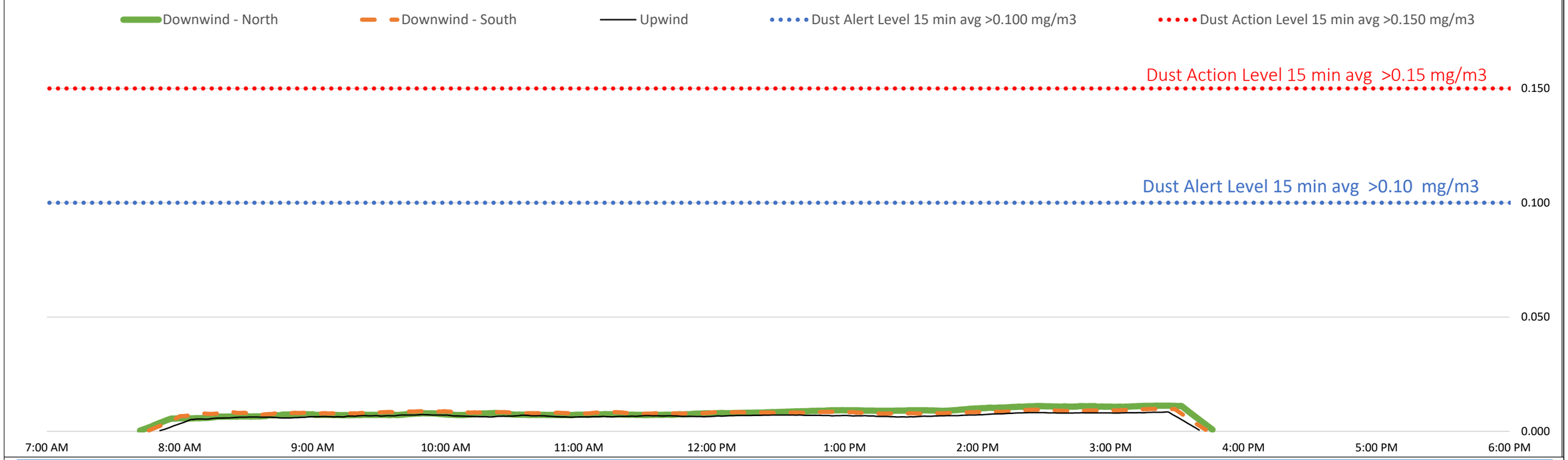


VOC (ppm) 15 min avg

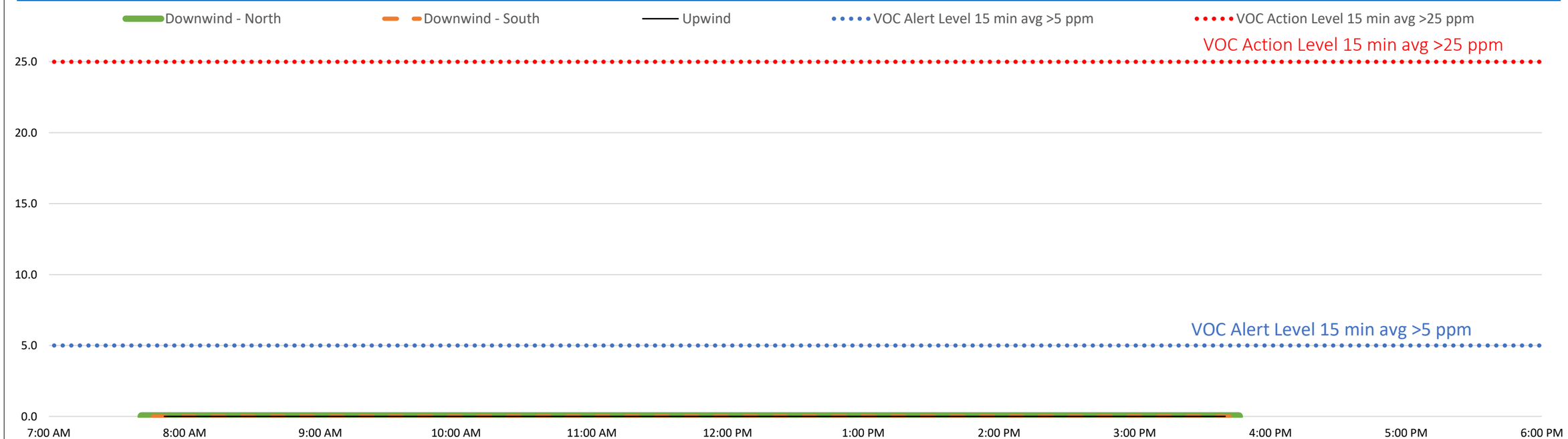


Fixed Station Daily Air Monitoring - February 24, 2023

Dust (mg/m3) 15 min avg

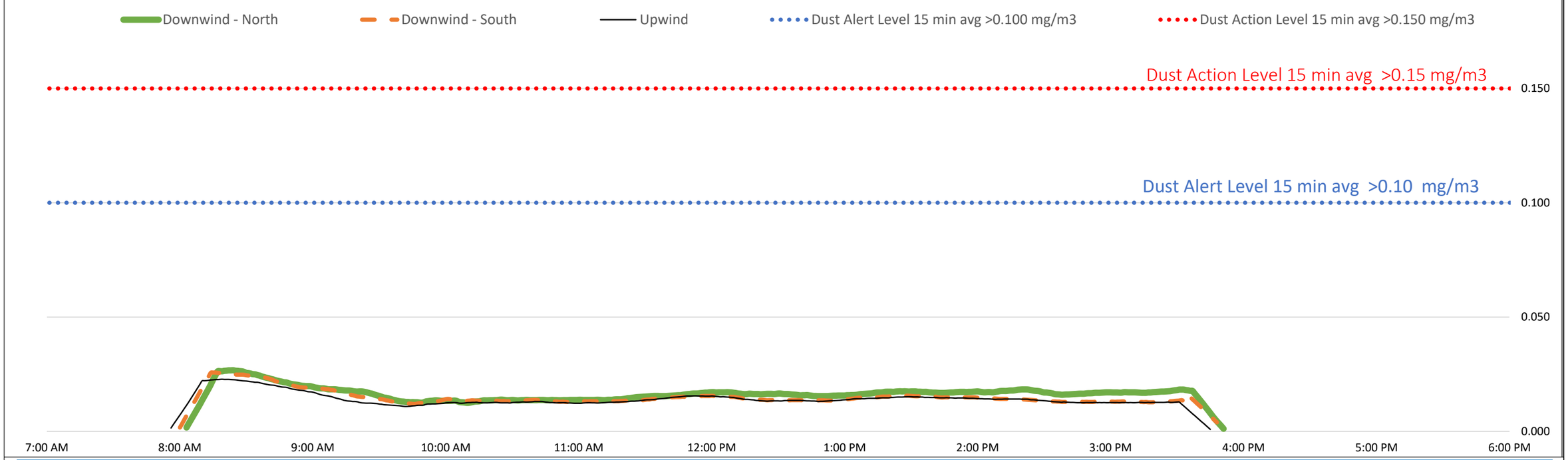


VOC (ppm) 15 min avg

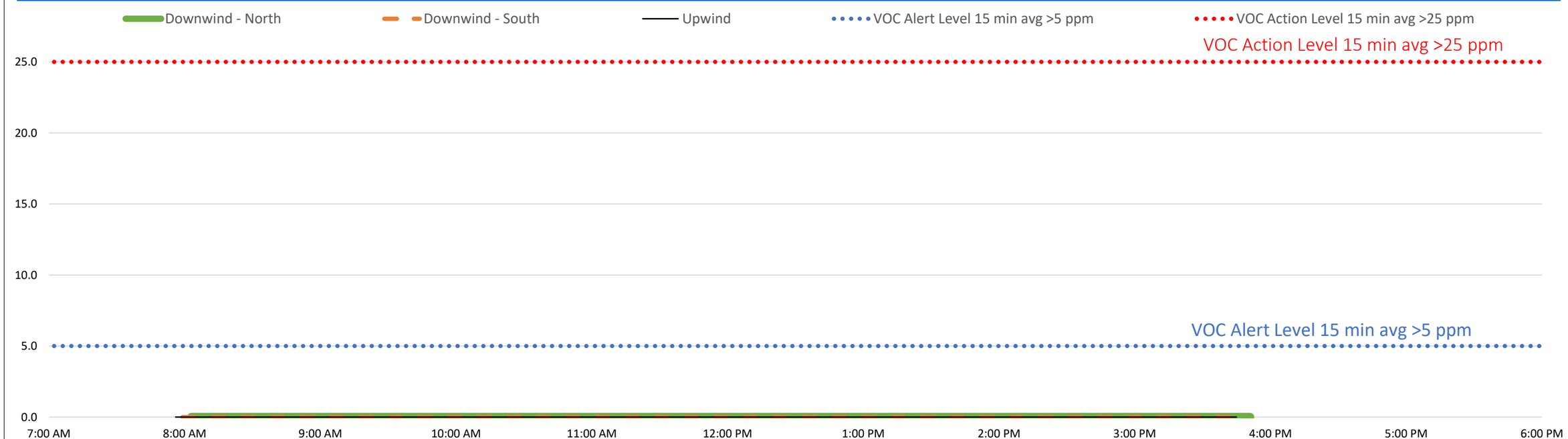


Fixed Station Daily Air Monitoring - February 27, 2023

Dust (mg/m3) 15 min avg

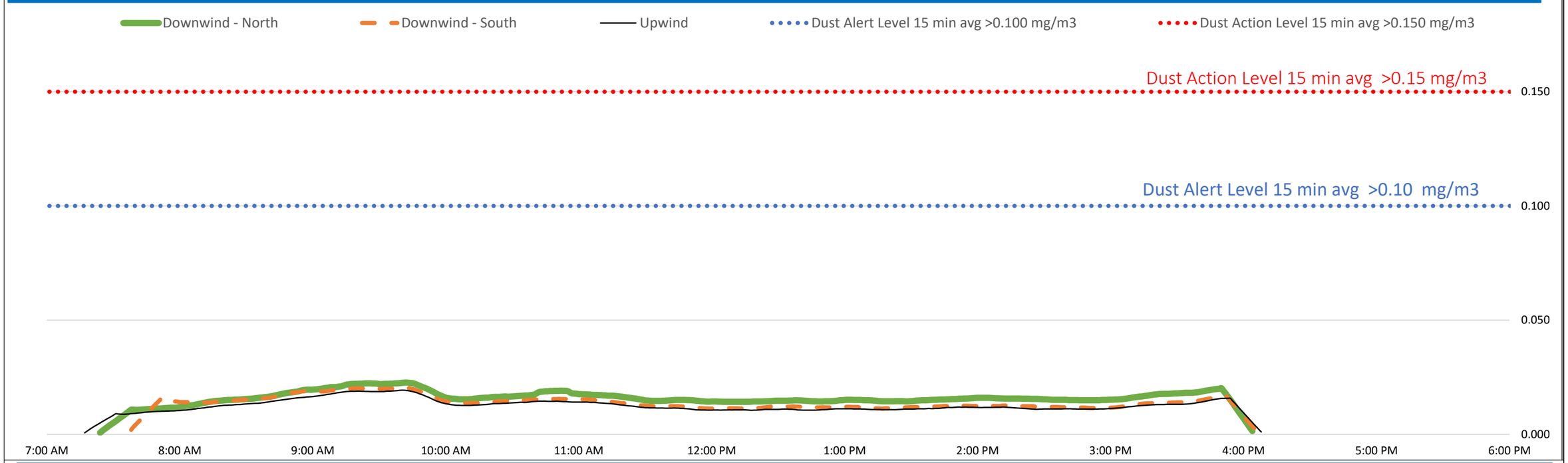


VOC (ppm) 15 min avg

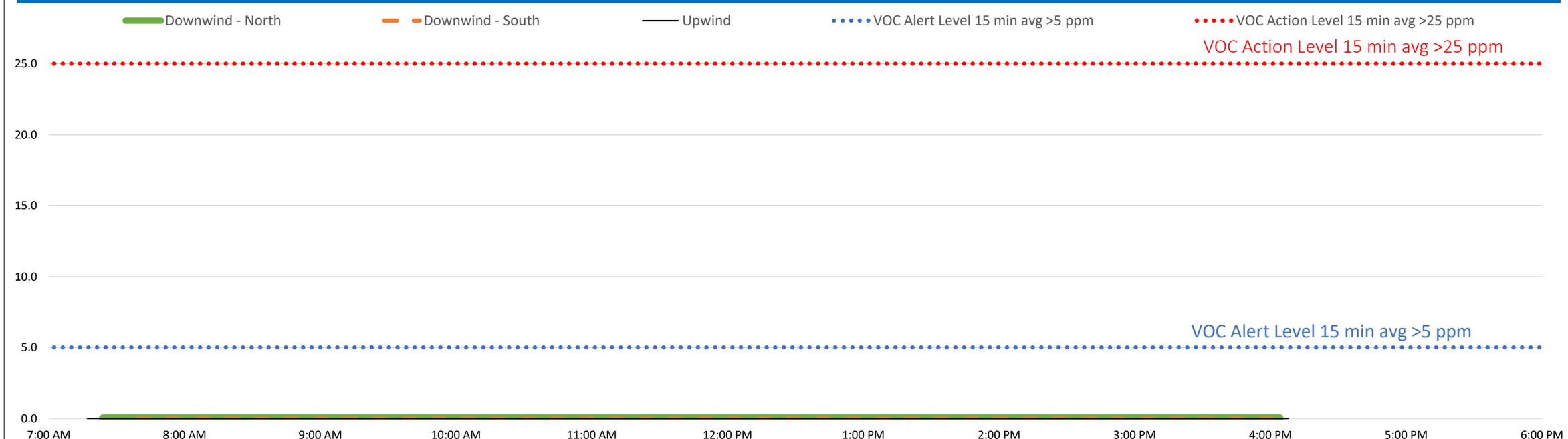


Fixed Station Daily Air Monitoring - February 28, 2023

Dust (mg/m3) 15 min avg

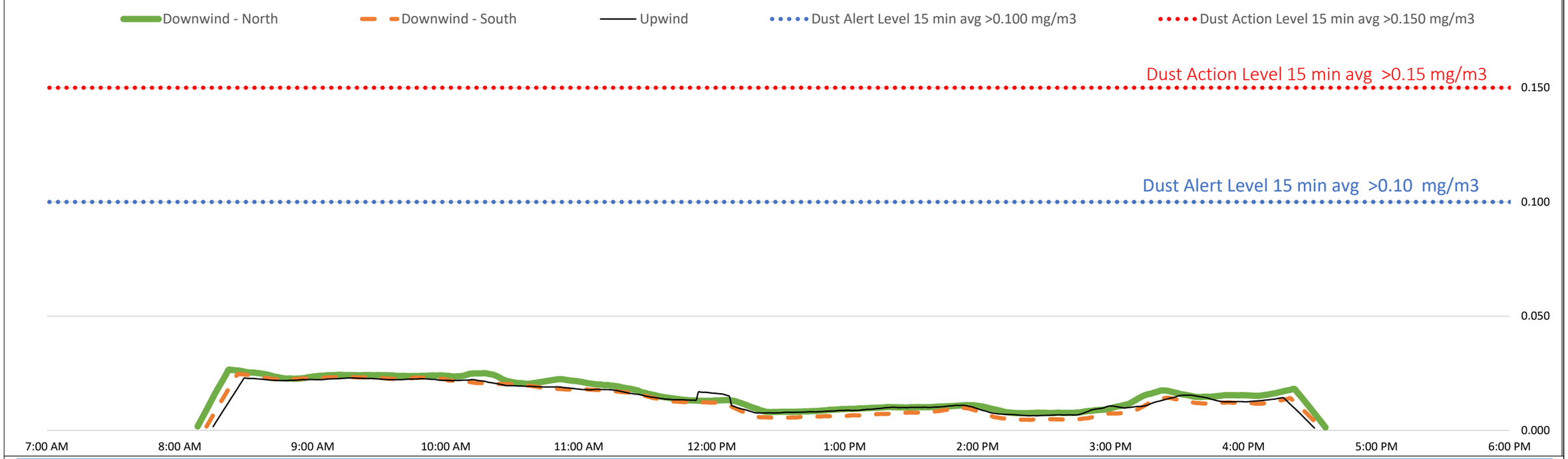


VOC (ppm) 15 min avg

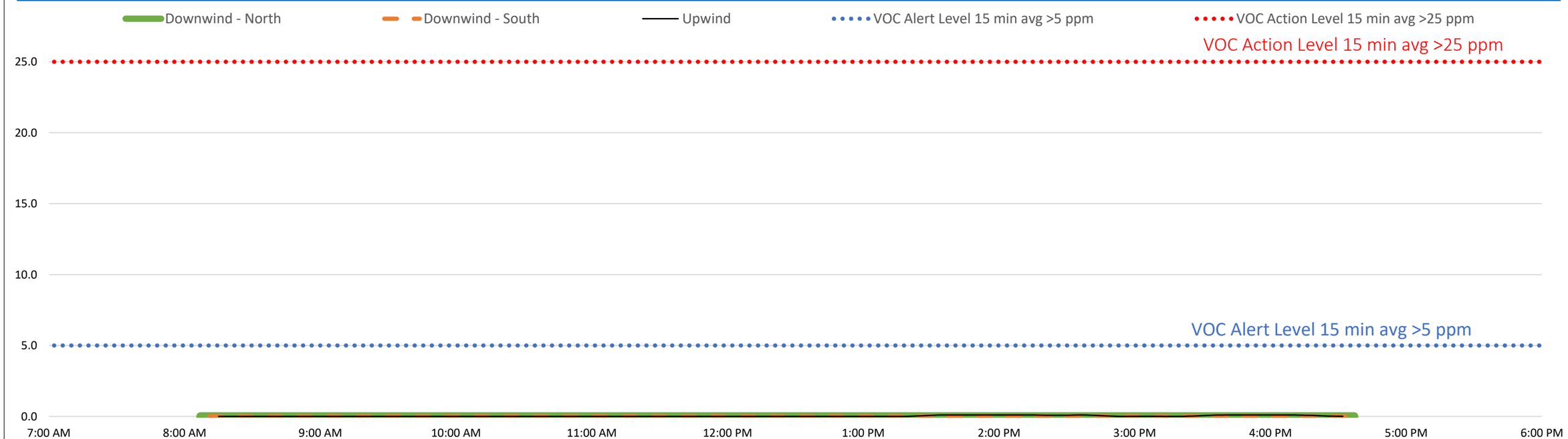


Fixed Station Daily Air Monitoring - March 1, 2023

Dust (mg/m3) 15 min avg

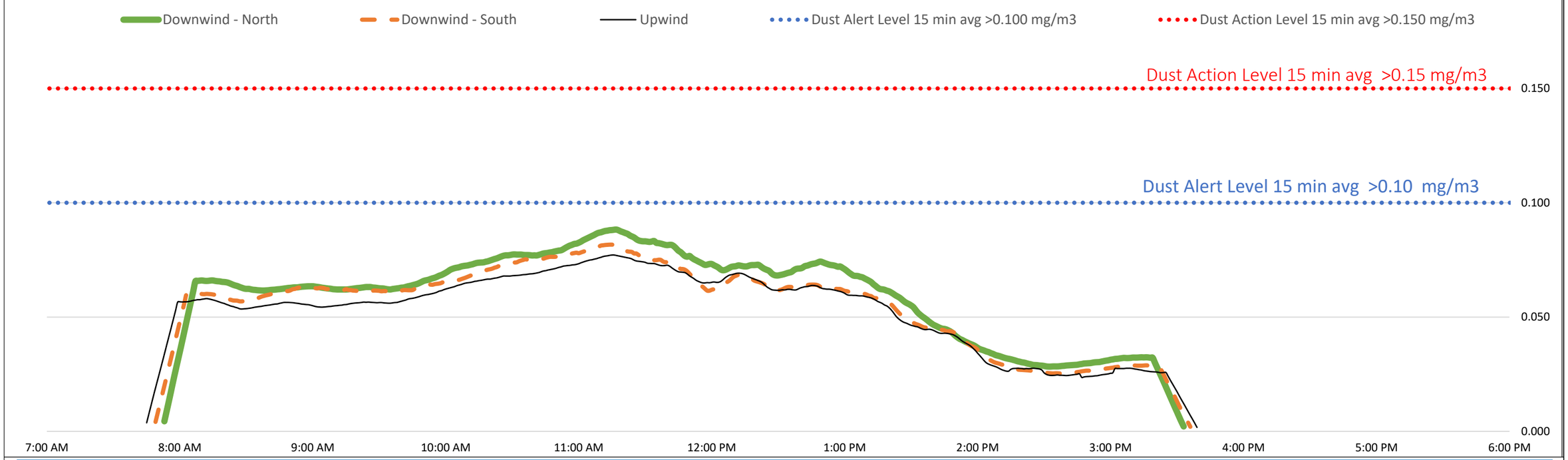


VOC (ppm) 15 min avg

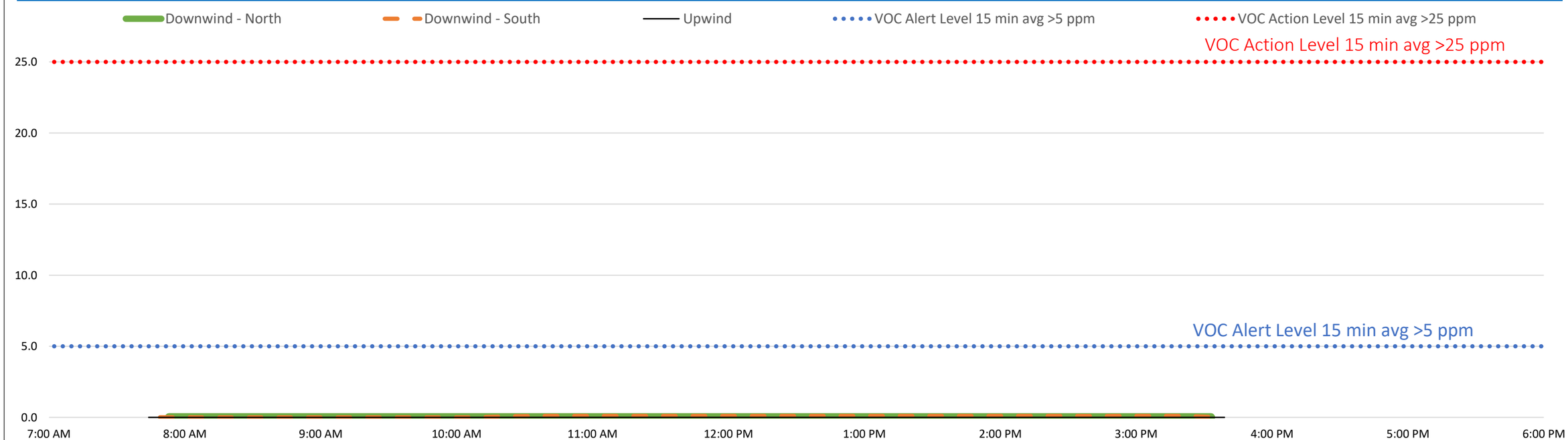


Fixed Station Daily Air Monitoring - March 2, 2023

Dust (mg/m3) 15 min avg

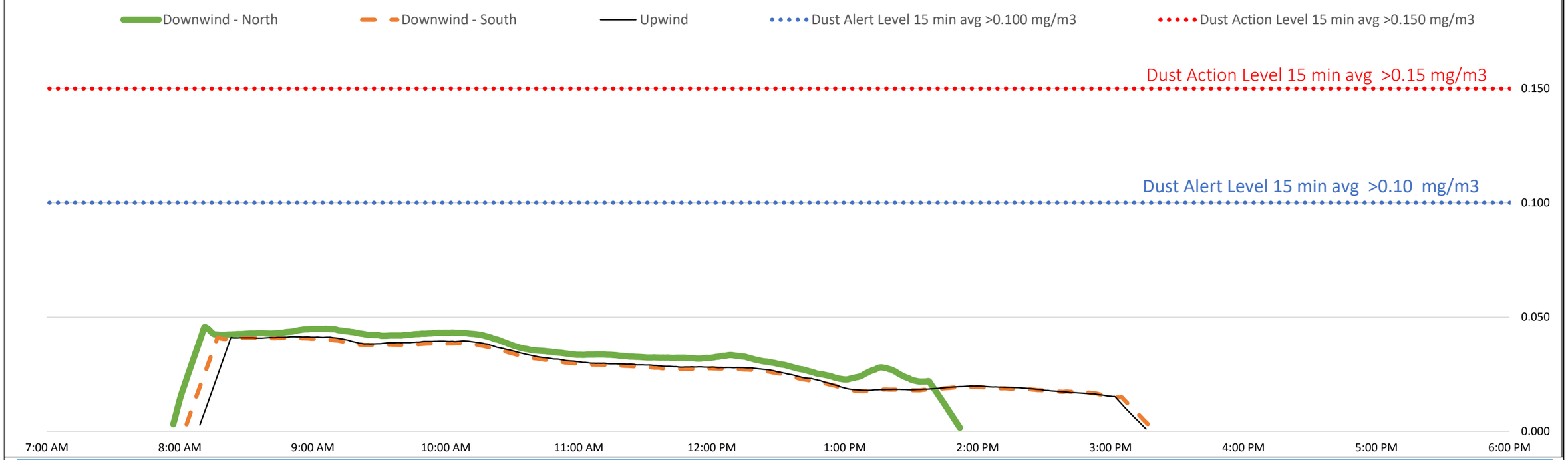


VOC (ppm) 15 min avg

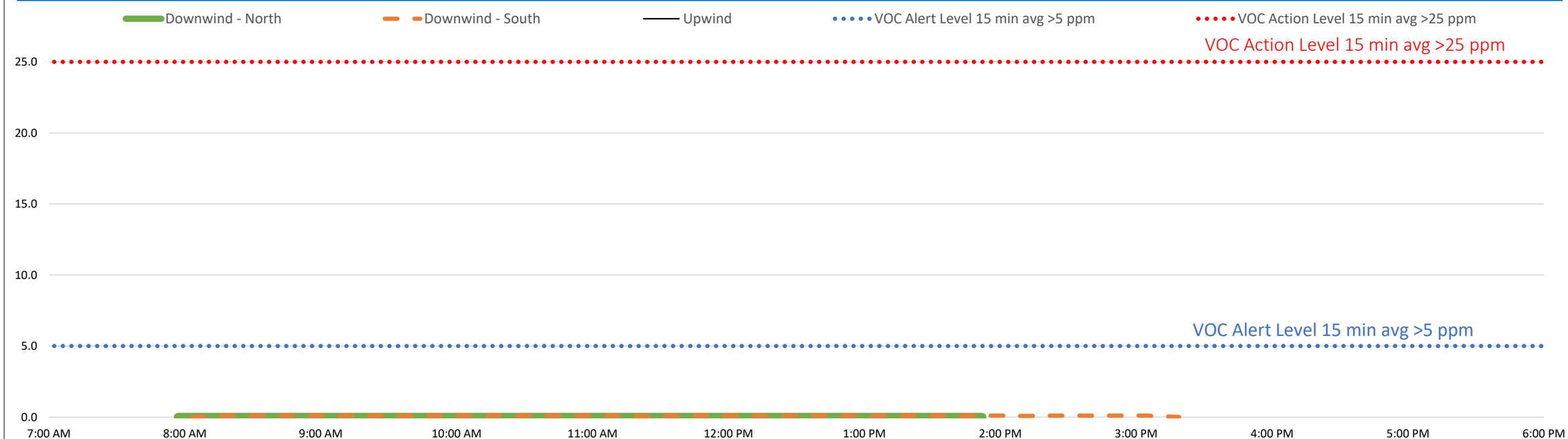


Fixed Station Daily Air Monitoring - March 3, 2023

Dust (mg/m3) 15 min avg

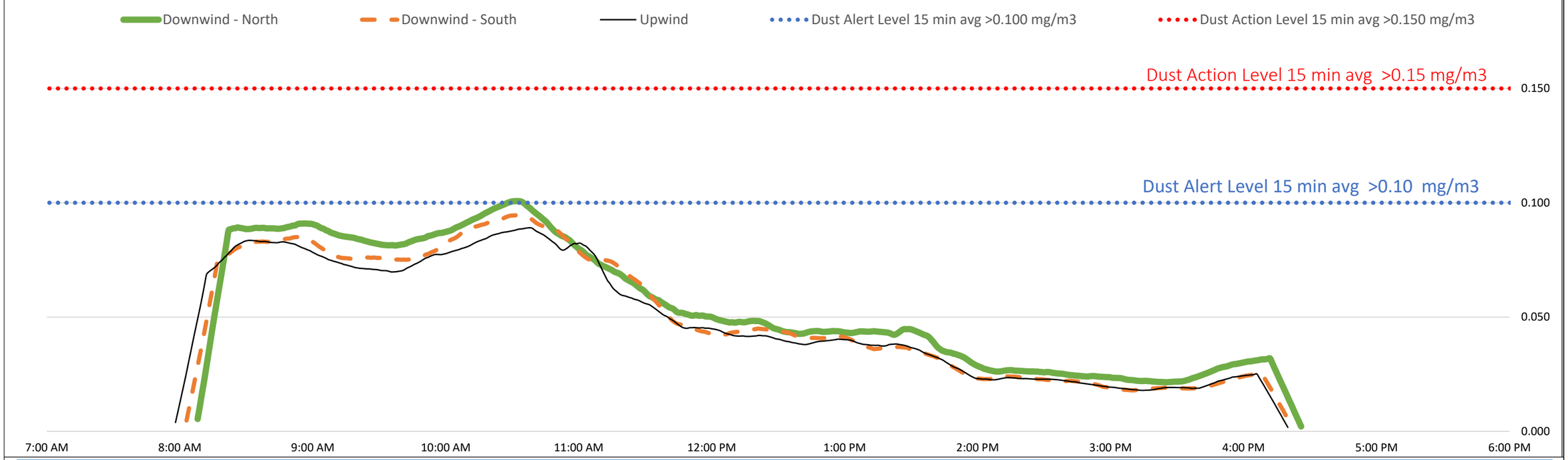


VOC (ppm) 15 min avg

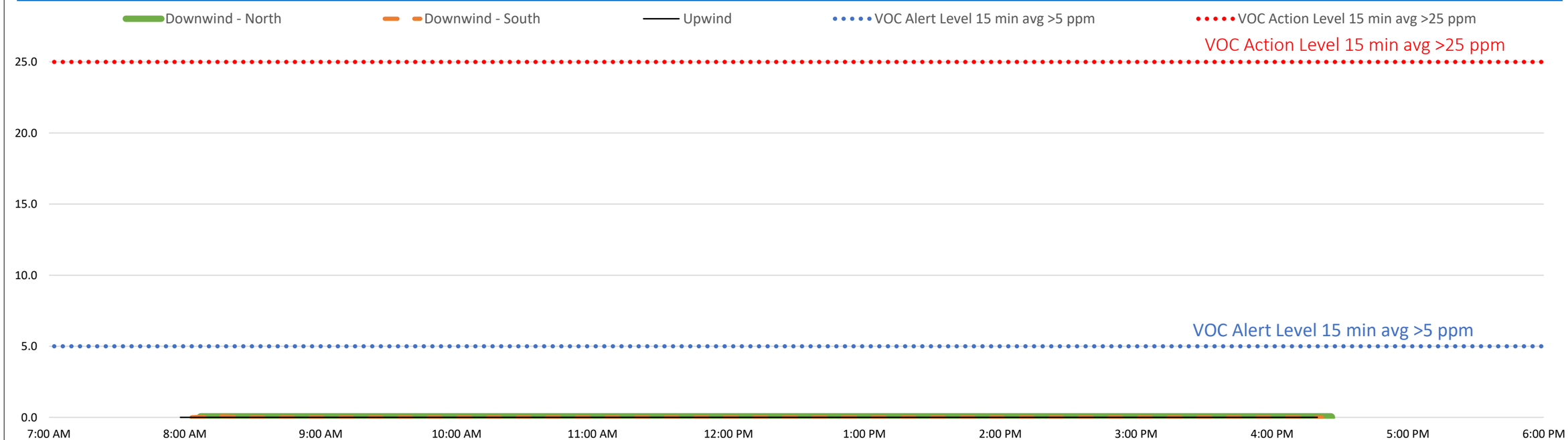


Fixed Station Daily Air Monitoring - March 6, 2023

Dust (mg/m3) 15 min avg

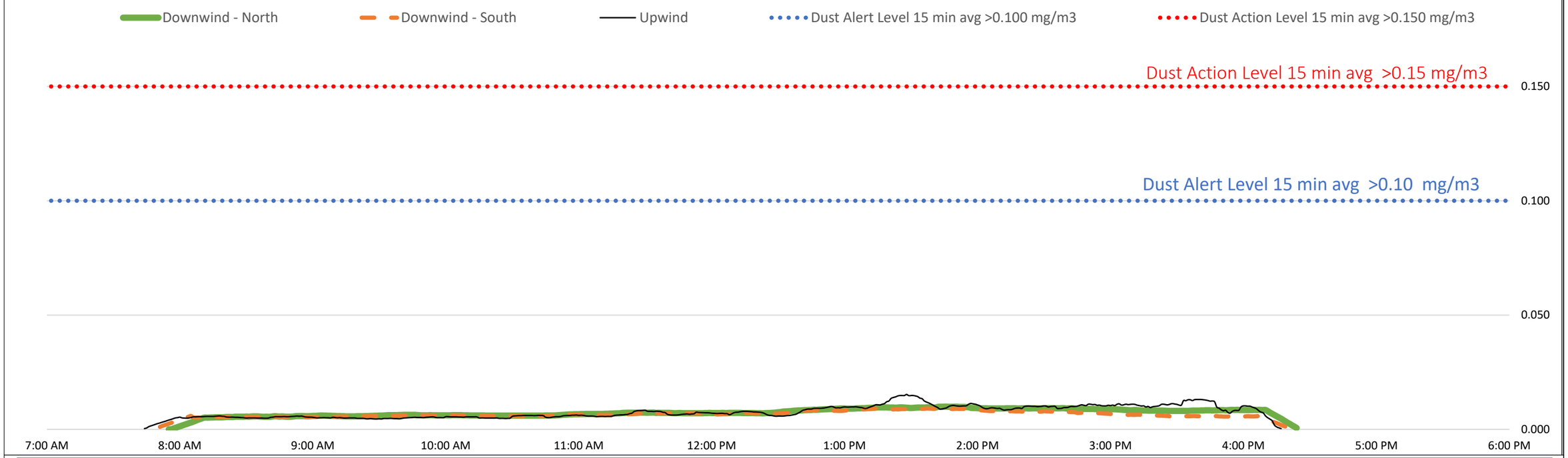


VOC (ppm) 15 min avg

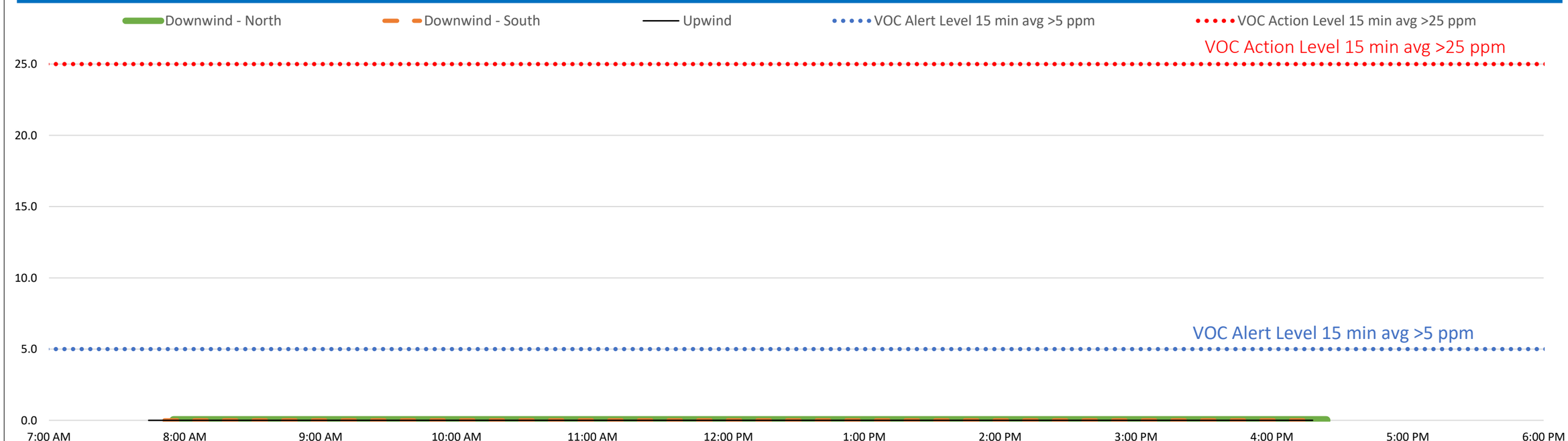


Fixed Station Daily Air Monitoring - March 7, 2023

Dust (mg/m3) 15 min avg

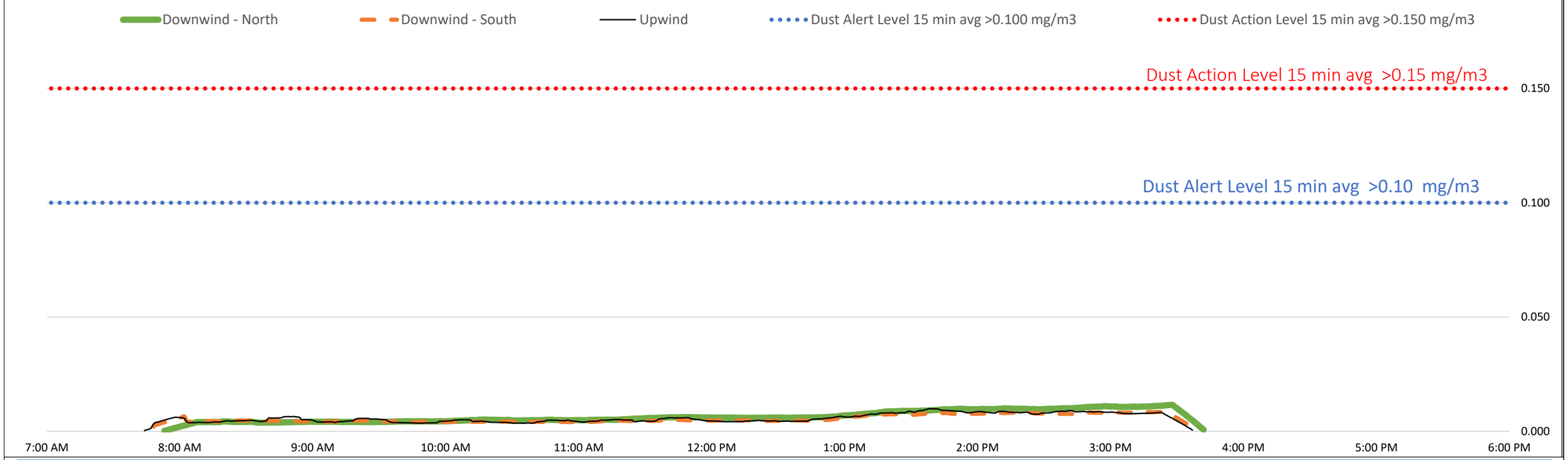


VOC (ppm) 15 min avg

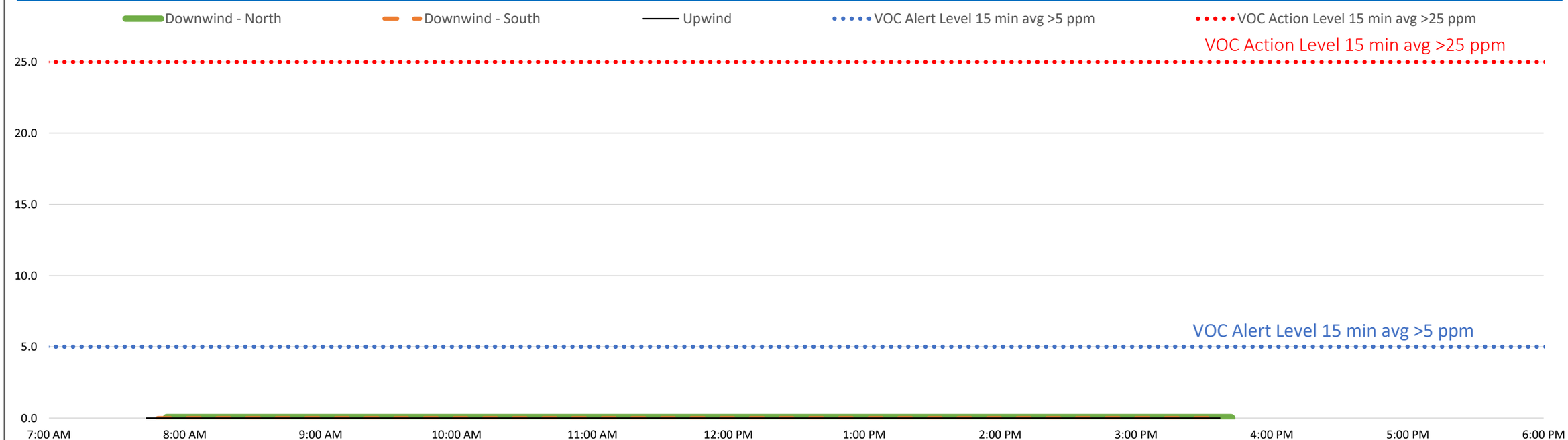


Fixed Station Daily Air Monitoring - March 8, 2023

Dust (mg/m3) 15 min avg

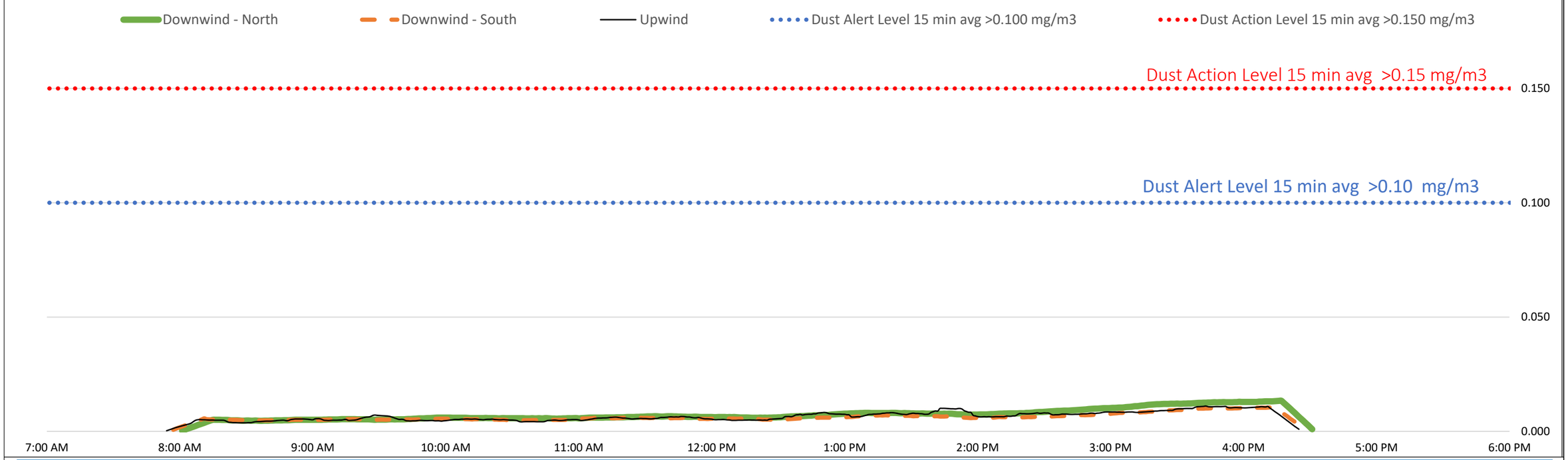


VOC (ppm) 15 min avg

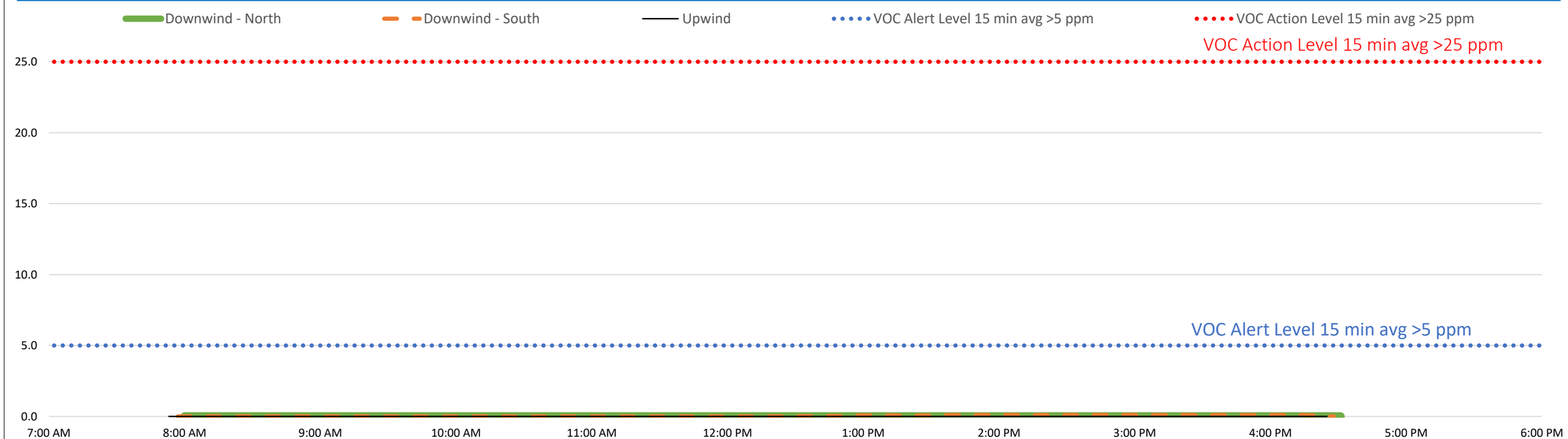


Fixed Station Daily Air Monitoring - March 9, 2023

Dust (mg/m3) 15 min avg

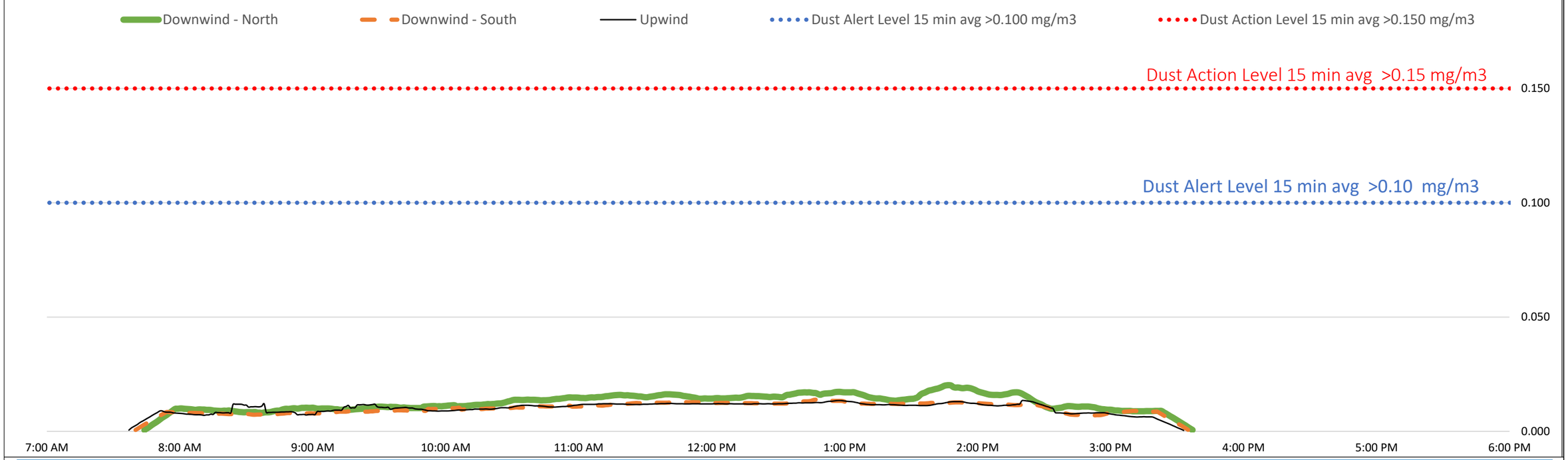


VOC (ppm) 15 min avg

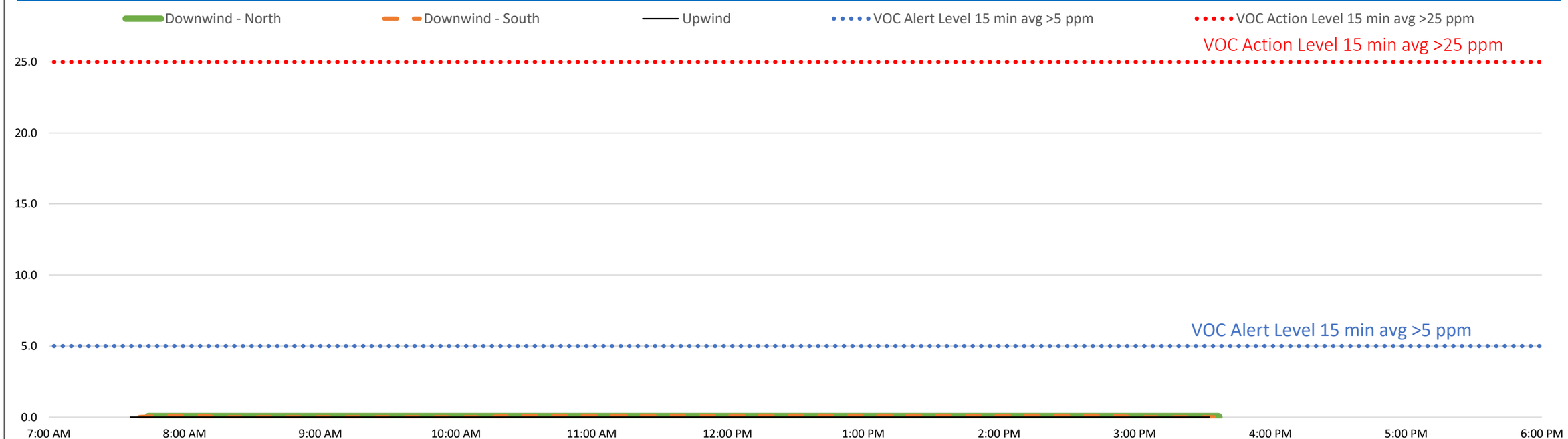


Fixed Station Daily Air Monitoring - March 10, 2023

Dust (mg/m3) 15 min avg

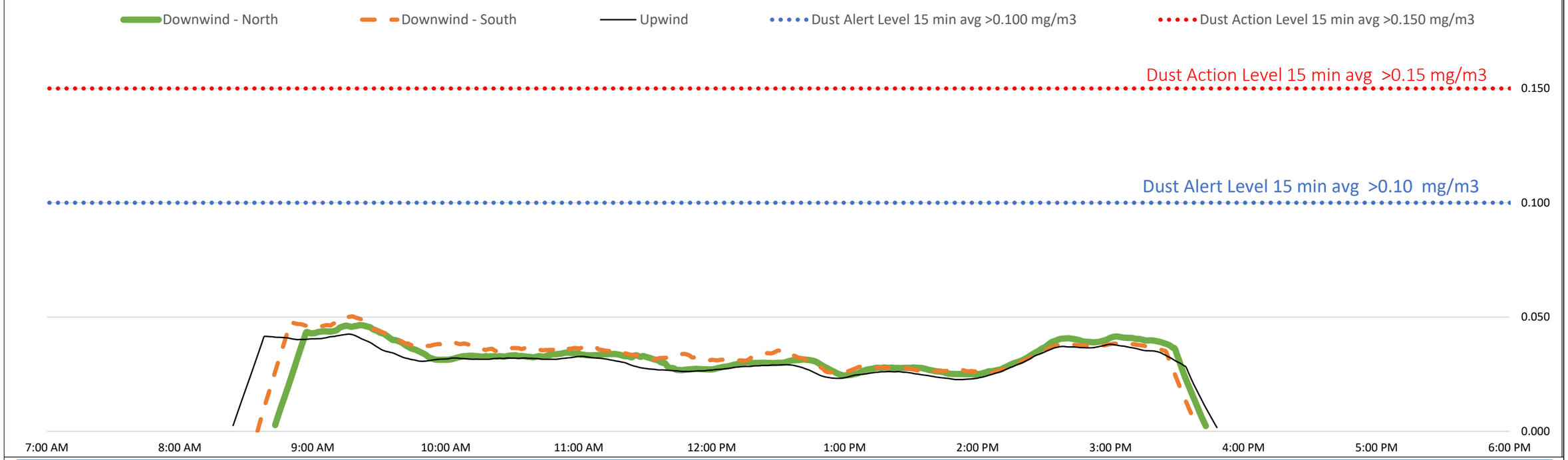


VOC (ppm) 15 min avg

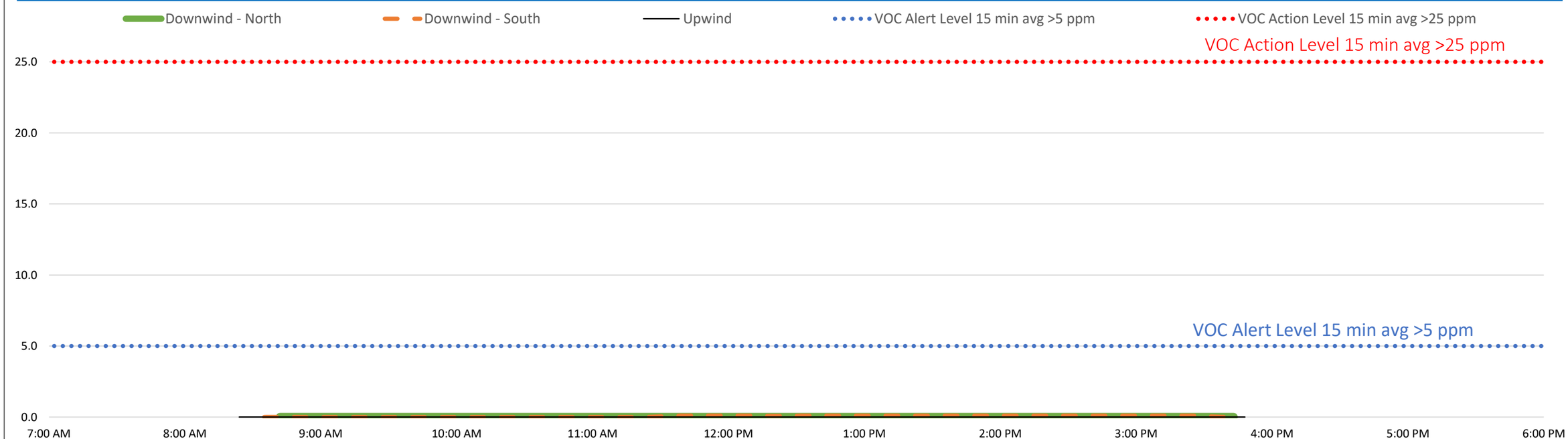


Fixed Station Daily Air Monitoring - March 13, 2023

Dust (mg/m3) 15 min avg

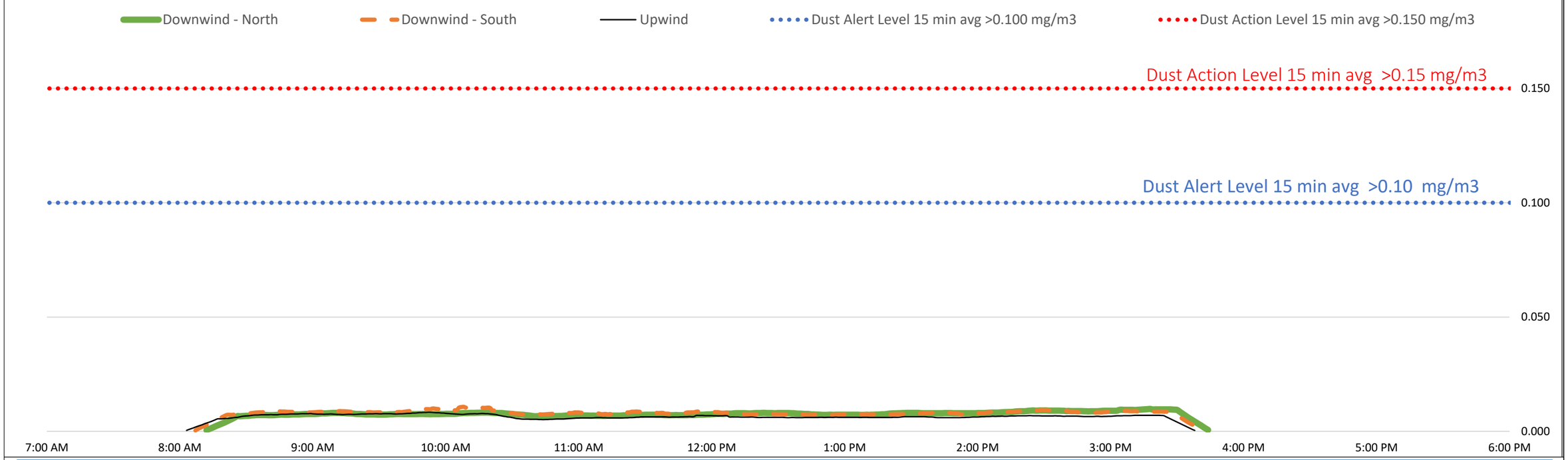


VOC (ppm) 15 min avg

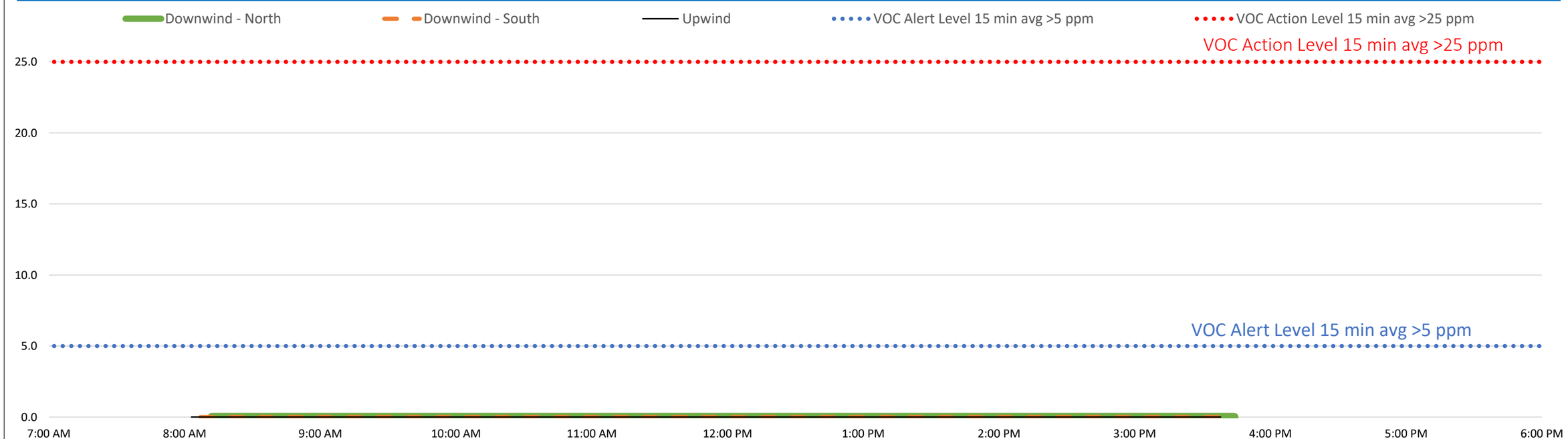


Fixed Station Daily Air Monitoring - March 14, 2023

Dust (mg/m3) 15 min avg

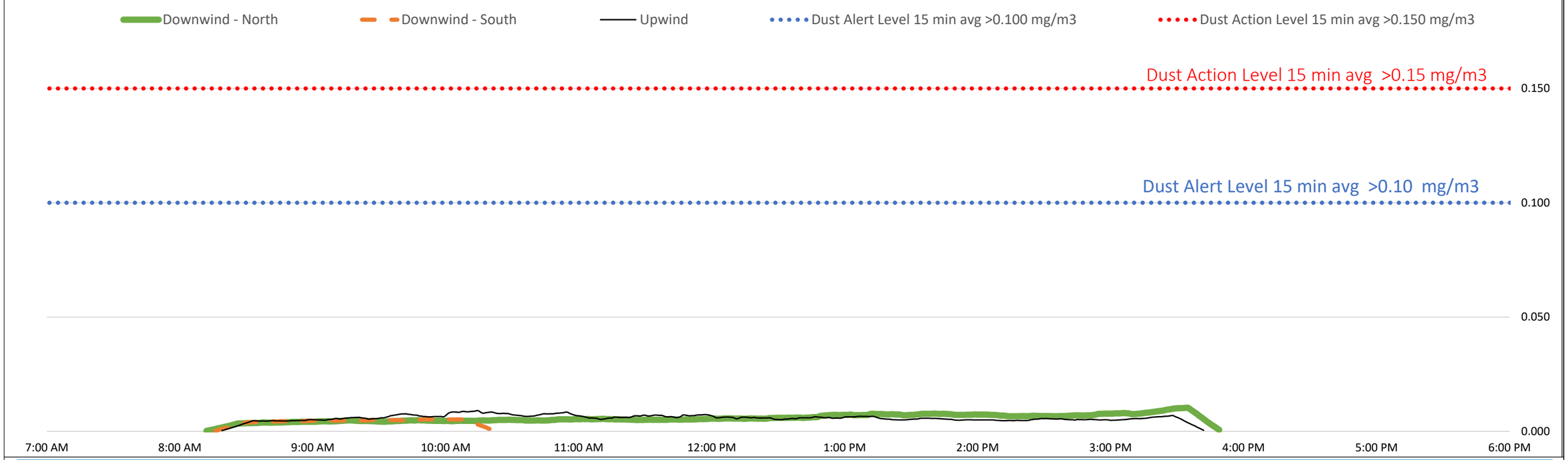


VOC (ppm) 15 min avg

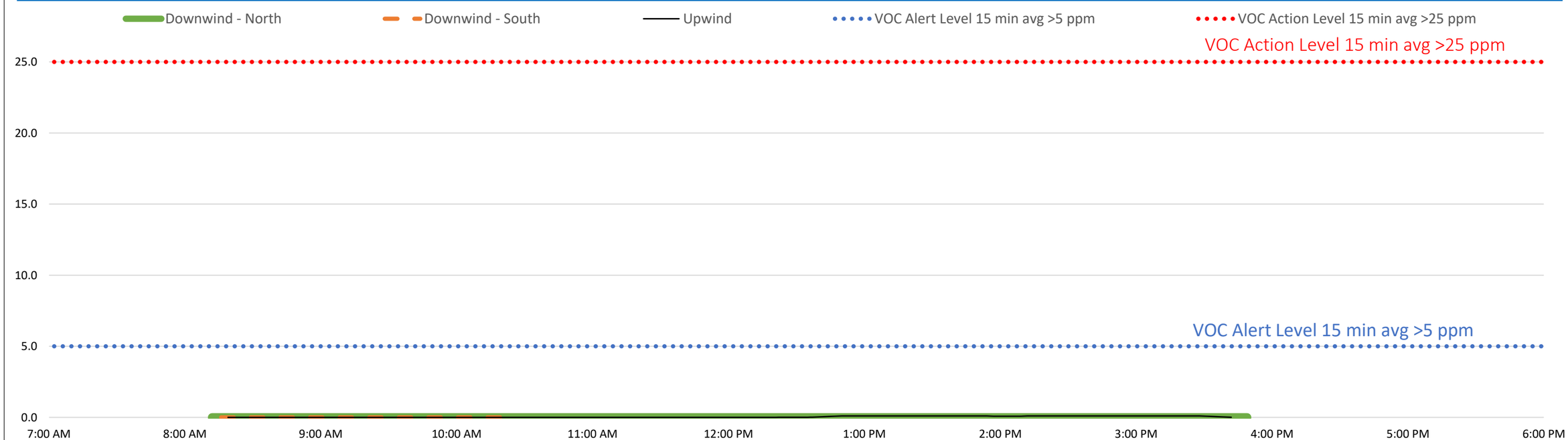


Fixed Station Daily Air Monitoring - March 15, 2023

Dust (mg/m3) 15 min avg

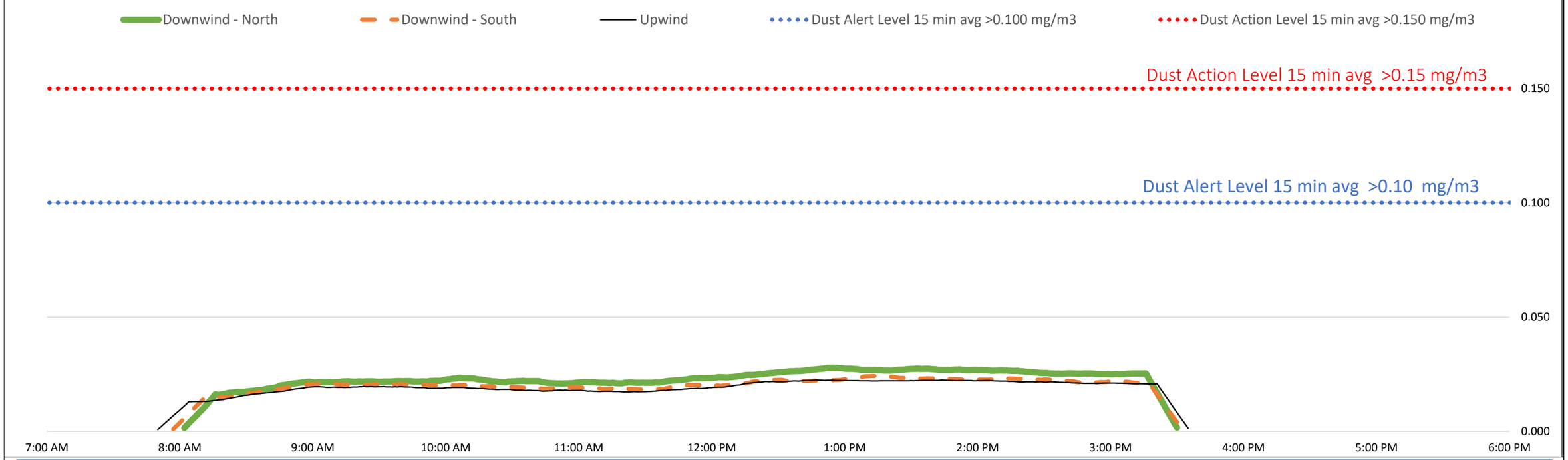


VOC (ppm) 15 min avg

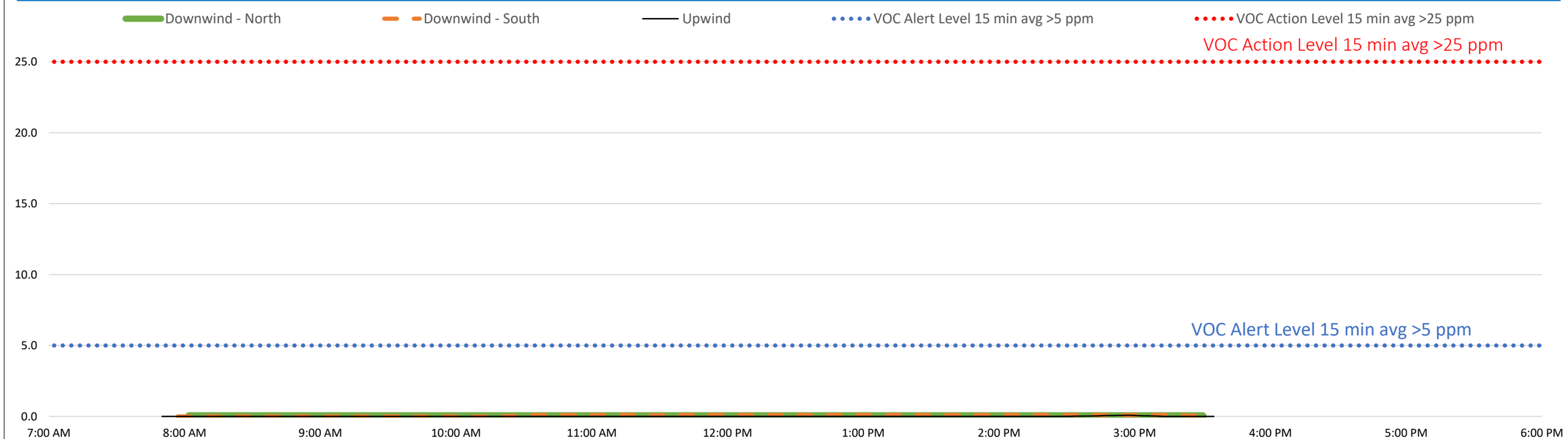


Fixed Station Daily Air Monitoring - March 16, 2023

Dust (mg/m3) 15 min avg

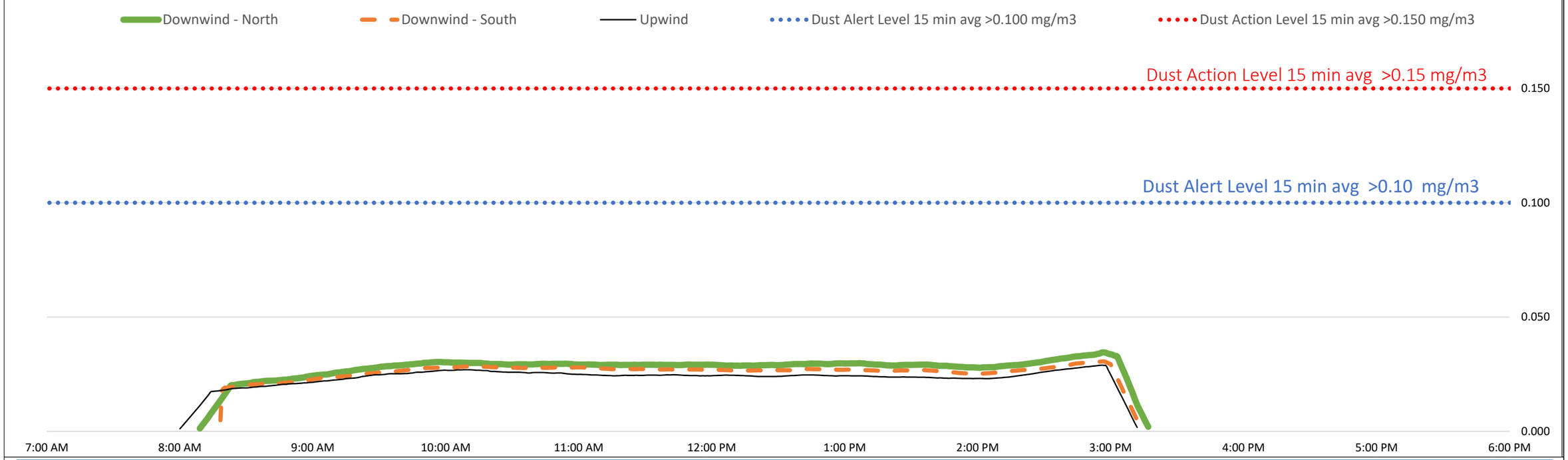


VOC (ppm) 15 min avg

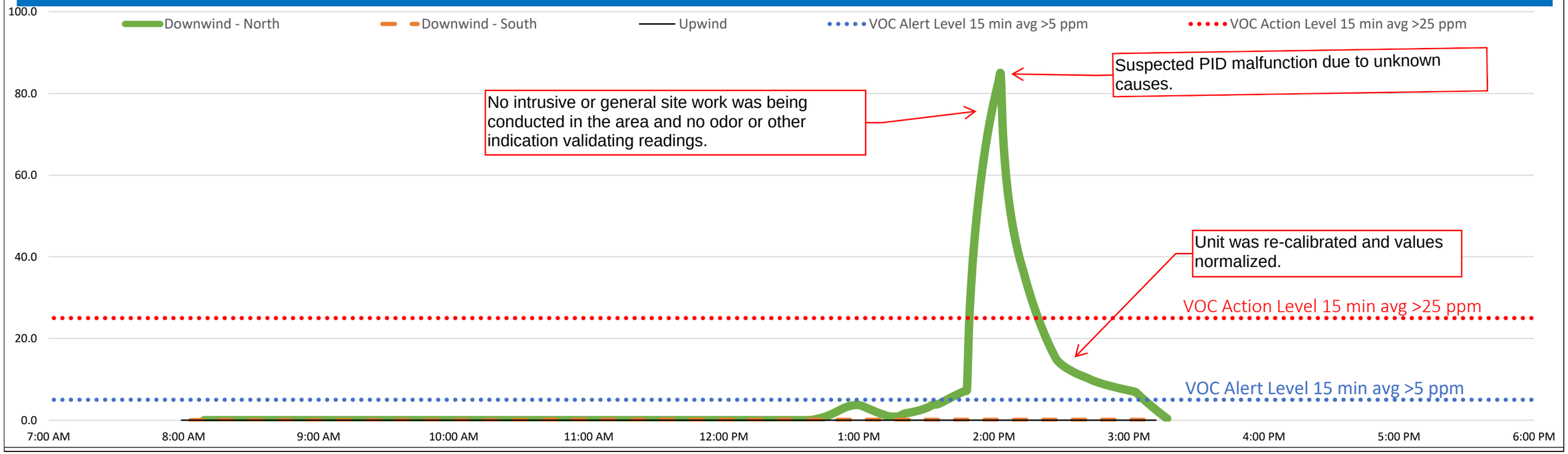


Fixed Station Daily Air Monitoring - March 17, 2023

Dust (mg/m3) 15 min avg

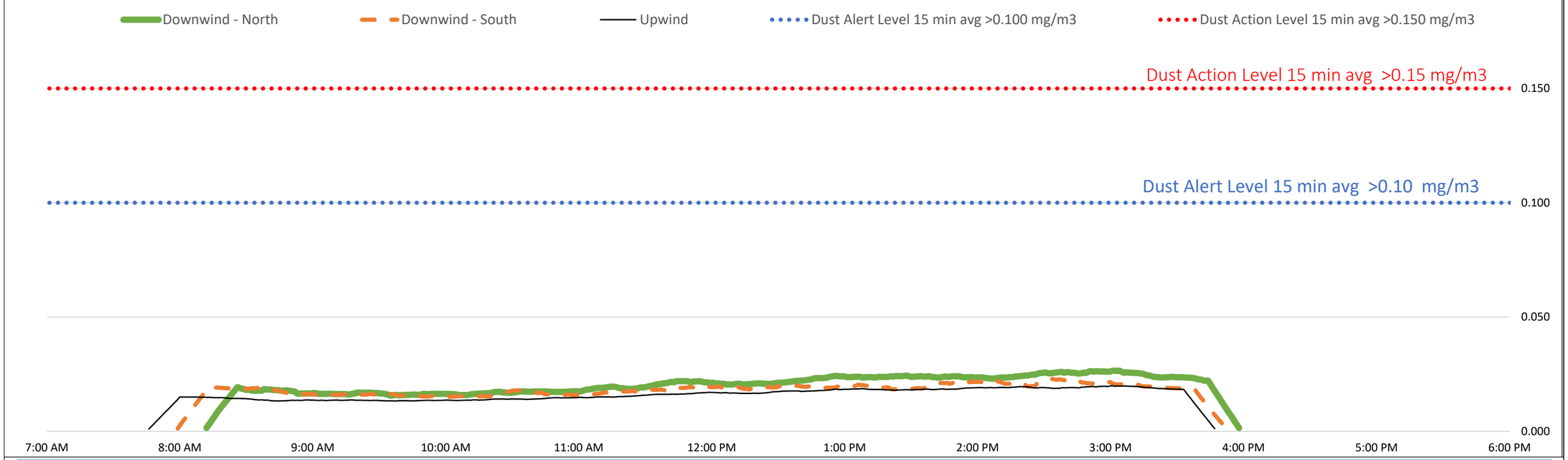


VOC (ppm) 15 min avg

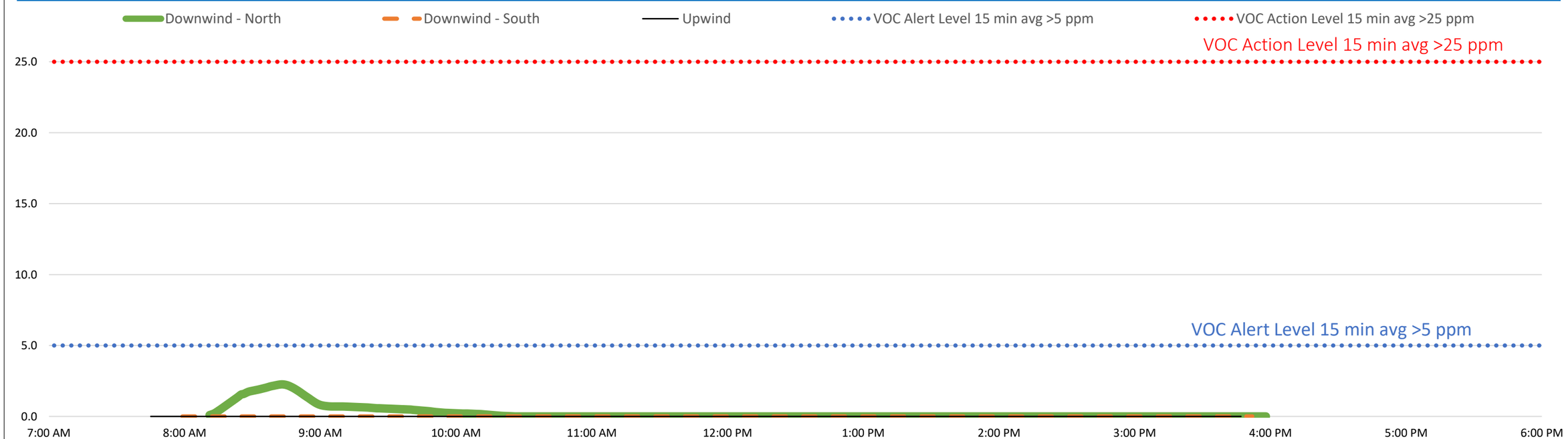


Fixed Station Daily Air Monitoring - March 20, 2023

Dust (mg/m3) 15 min avg

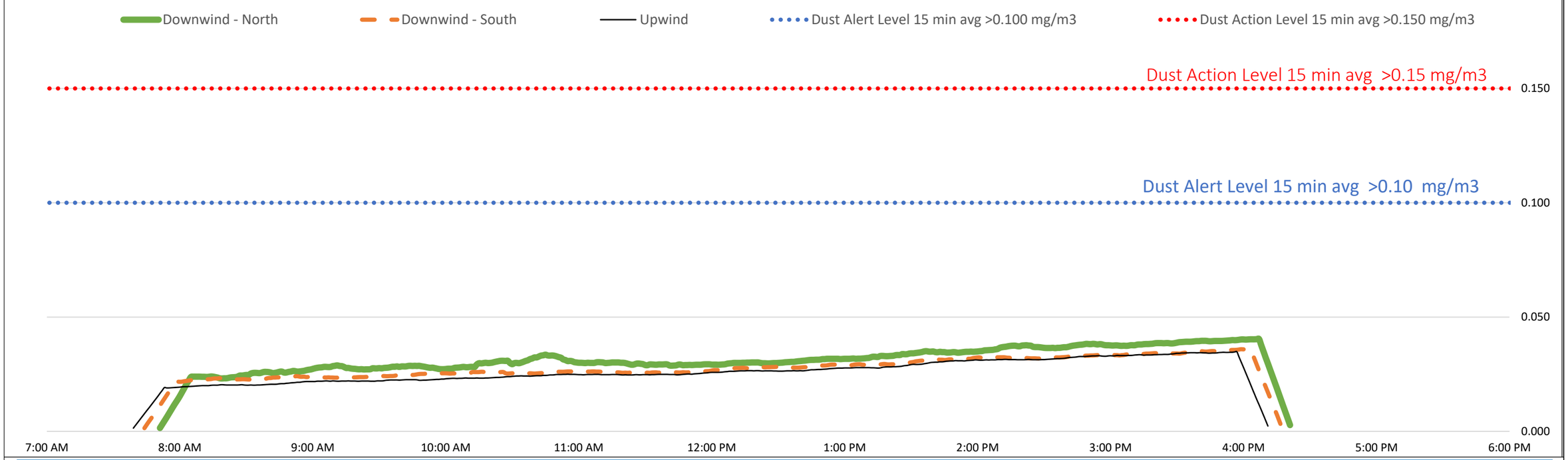


VOC (ppm) 15 min avg

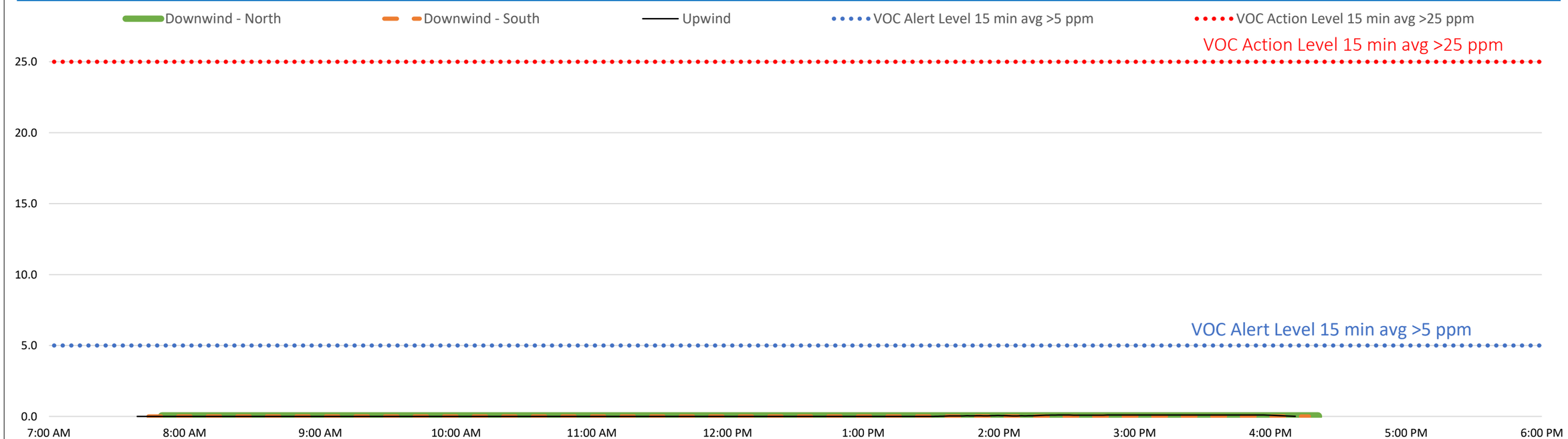


Fixed Station Daily Air Monitoring - March 21, 2023

Dust (mg/m3) 15 min avg

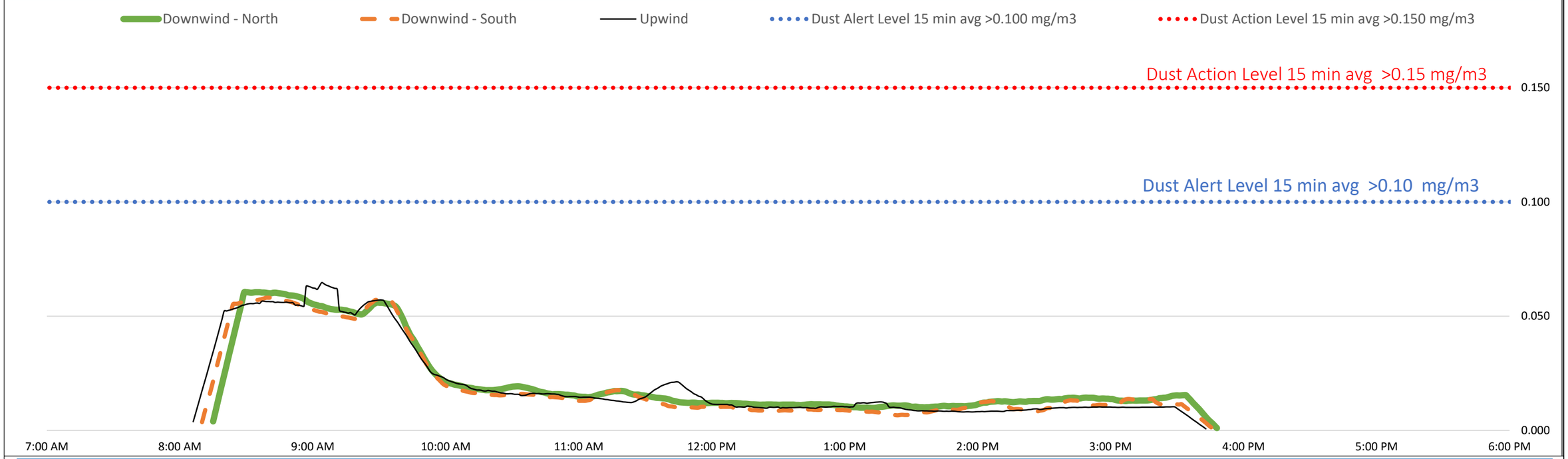


VOC (ppm) 15 min avg

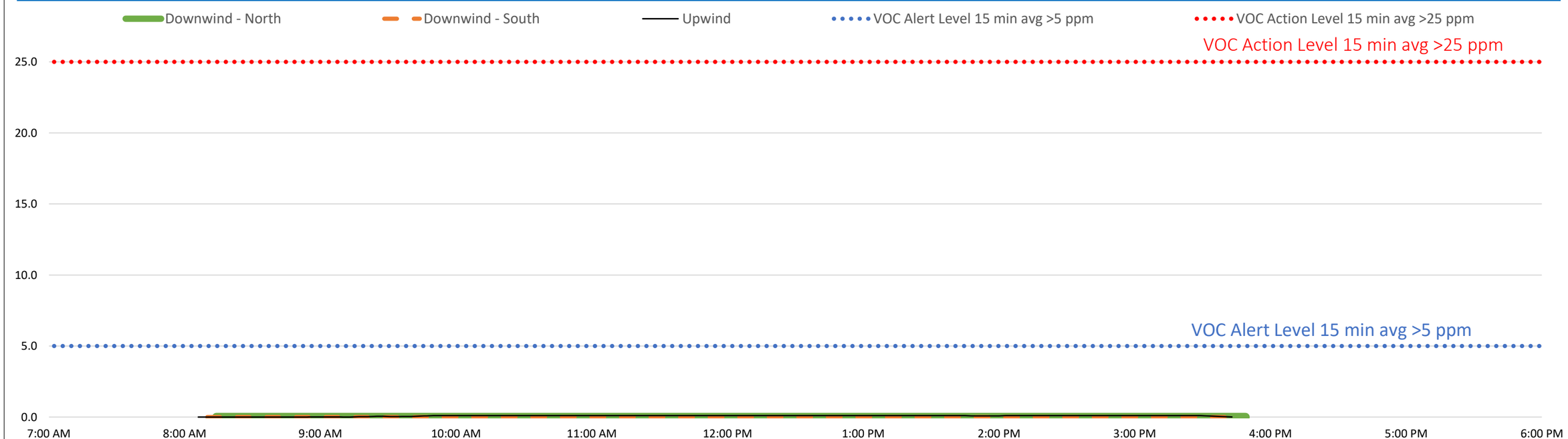


Fixed Station Daily Air Monitoring - March 22, 2023

Dust (mg/m3) 15 min avg

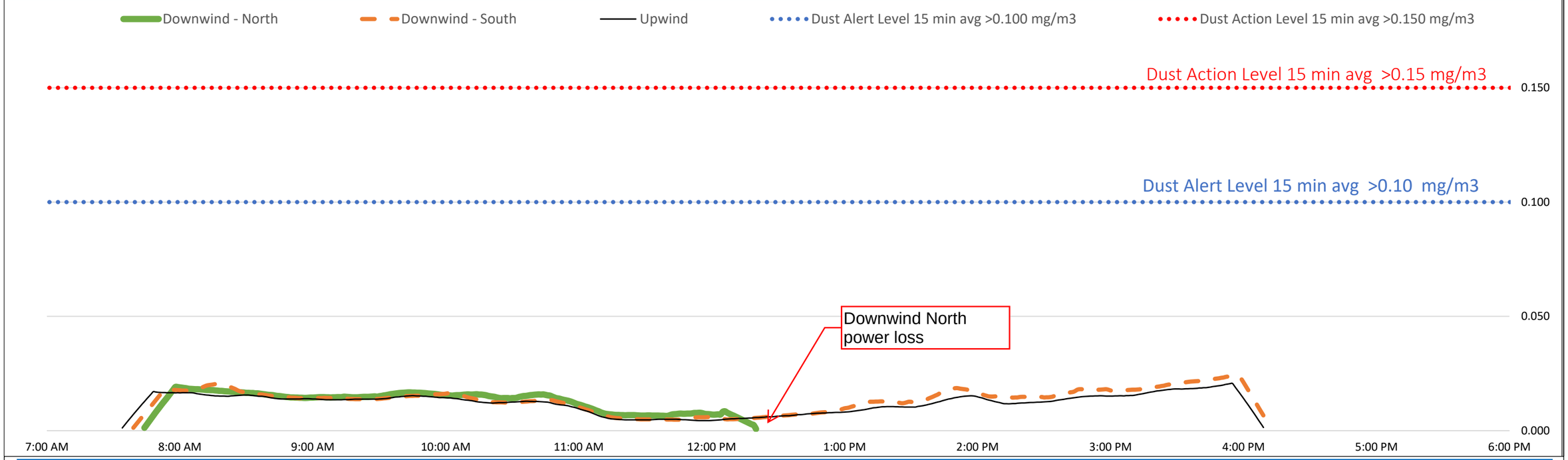


VOC (ppm) 15 min avg

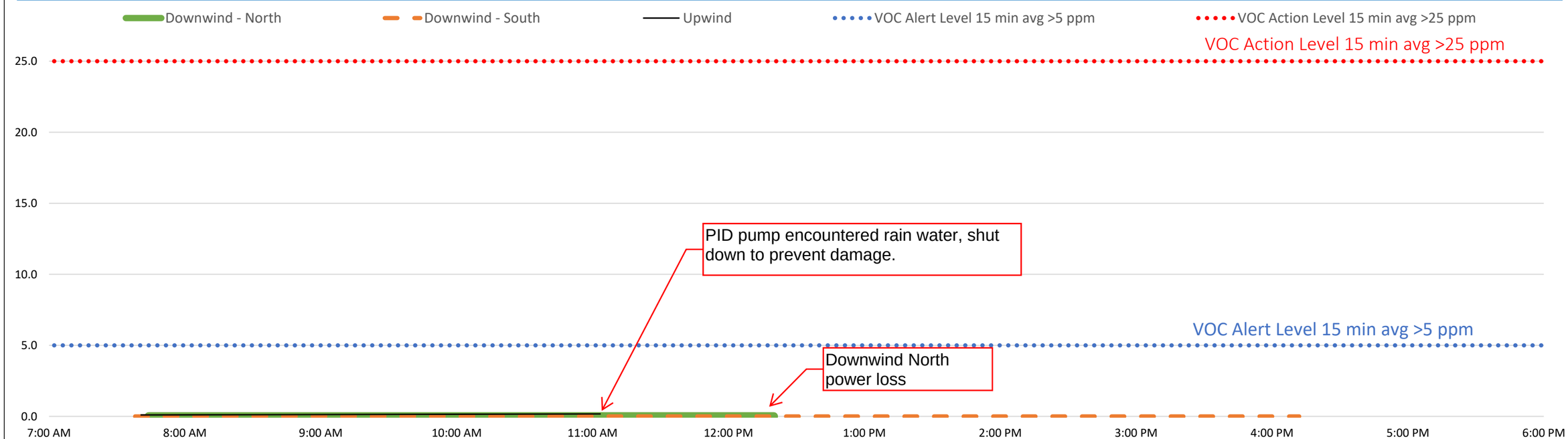


Fixed Station Daily Air Monitoring - March 23, 2023

Dust (mg/m3) 15 min avg

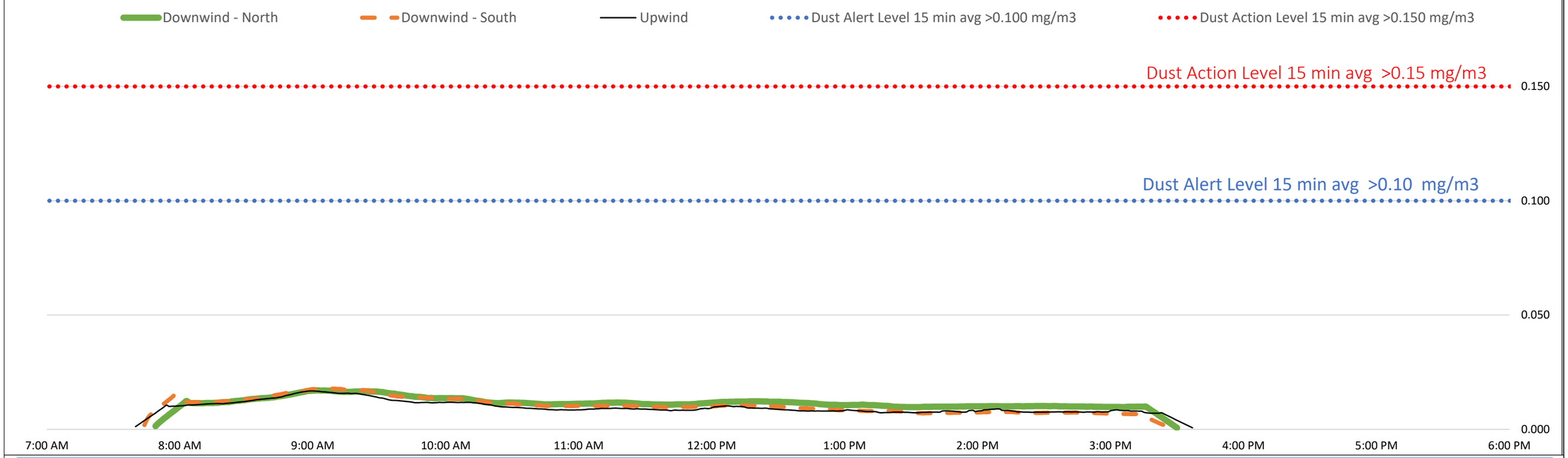


VOC (ppm) 15 min avg

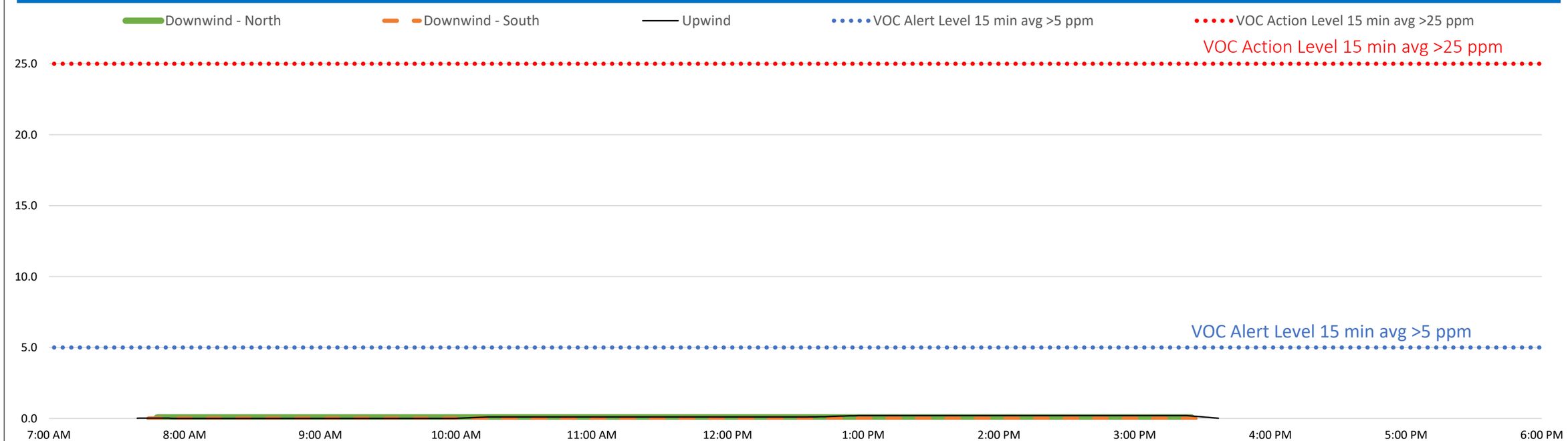


Fixed Station Daily Air Monitoring - March 24, 2023

Dust (mg/m3) 15 min avg

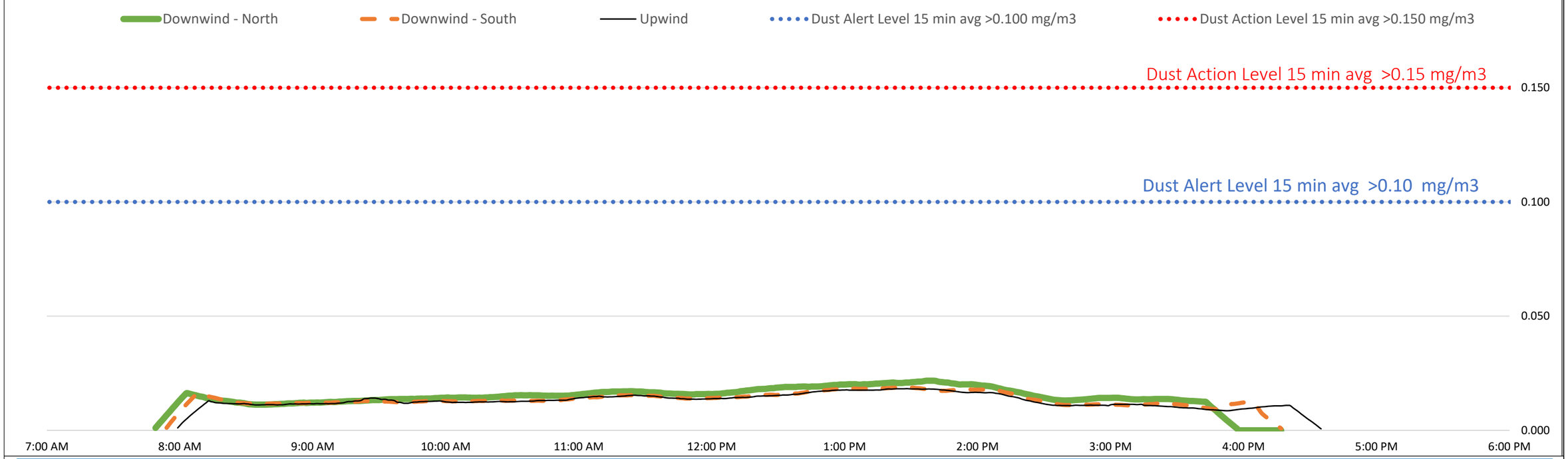


VOC (ppm) 15 min avg

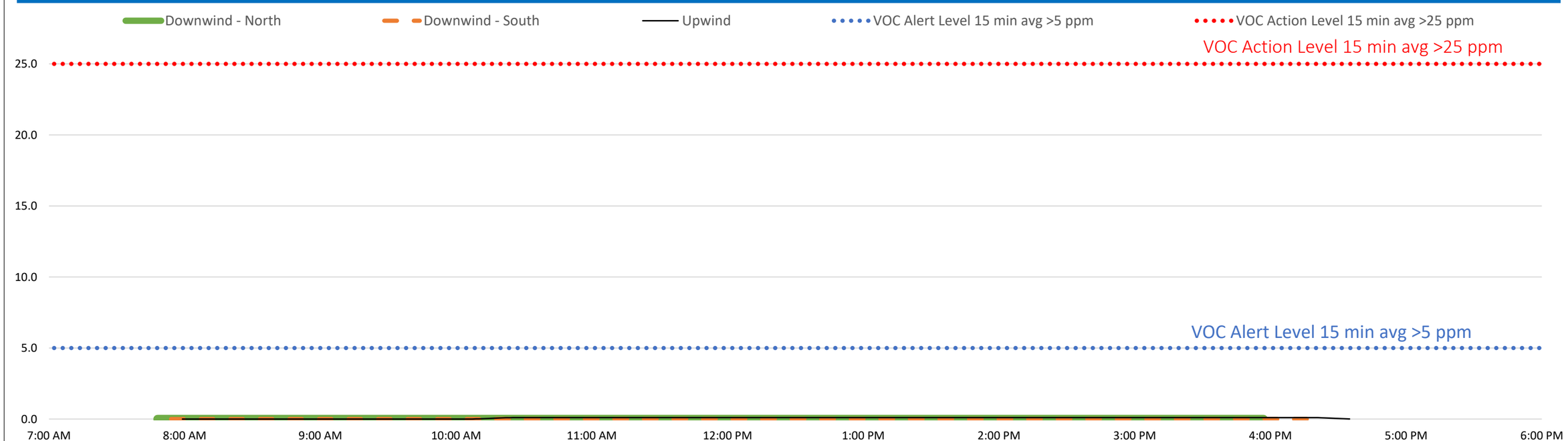


Fixed Station Daily Air Monitoring - March 27, 2023

Dust (mg/m3) 15 min avg

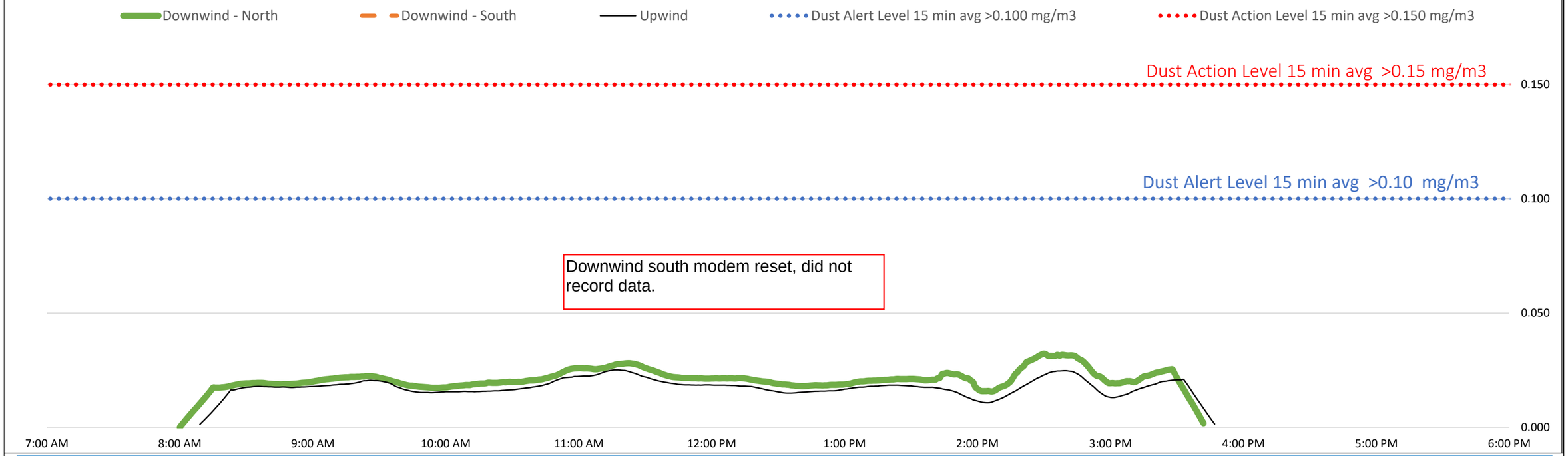


VOC (ppm) 15 min avg

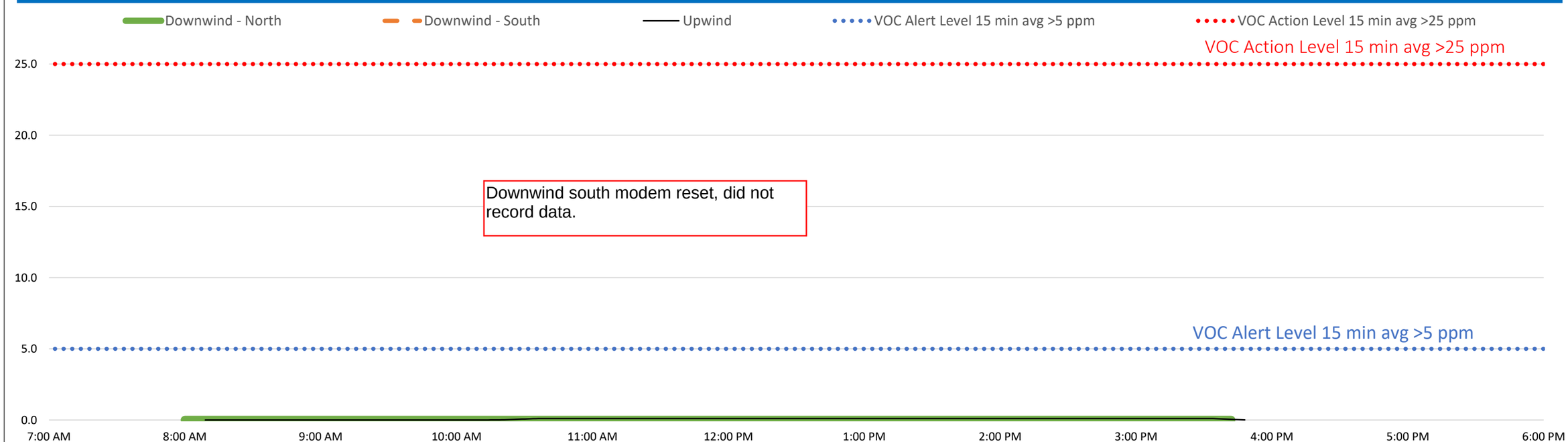


Fixed Station Daily Air Monitoring - March 28, 2023

Dust (mg/m3) 15 min avg

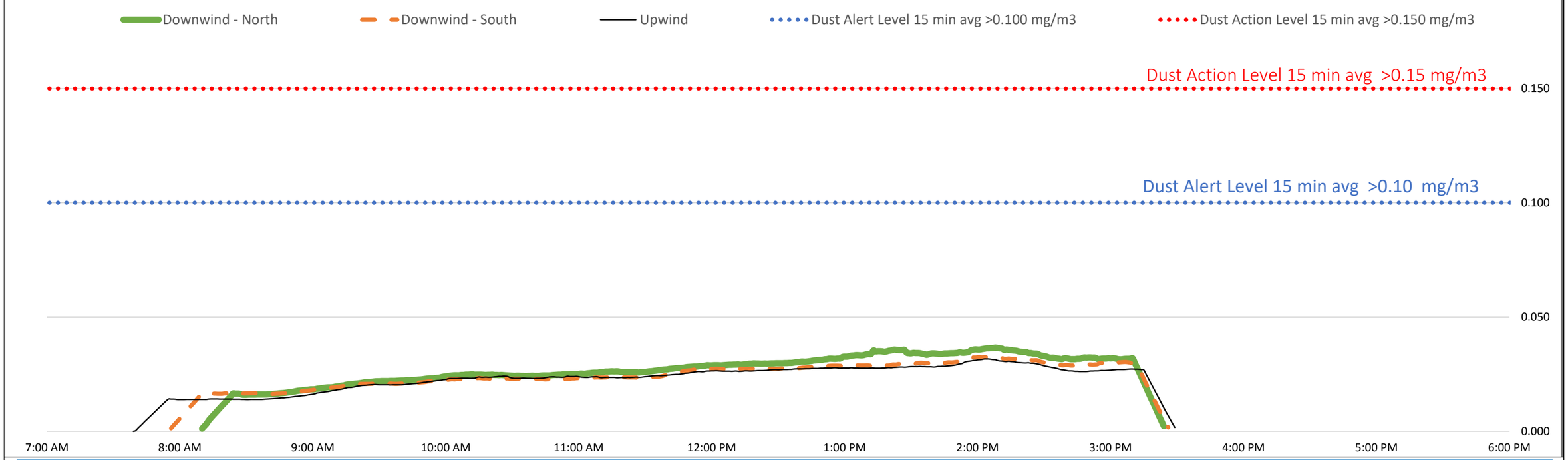


VOC (ppm) 15 min avg

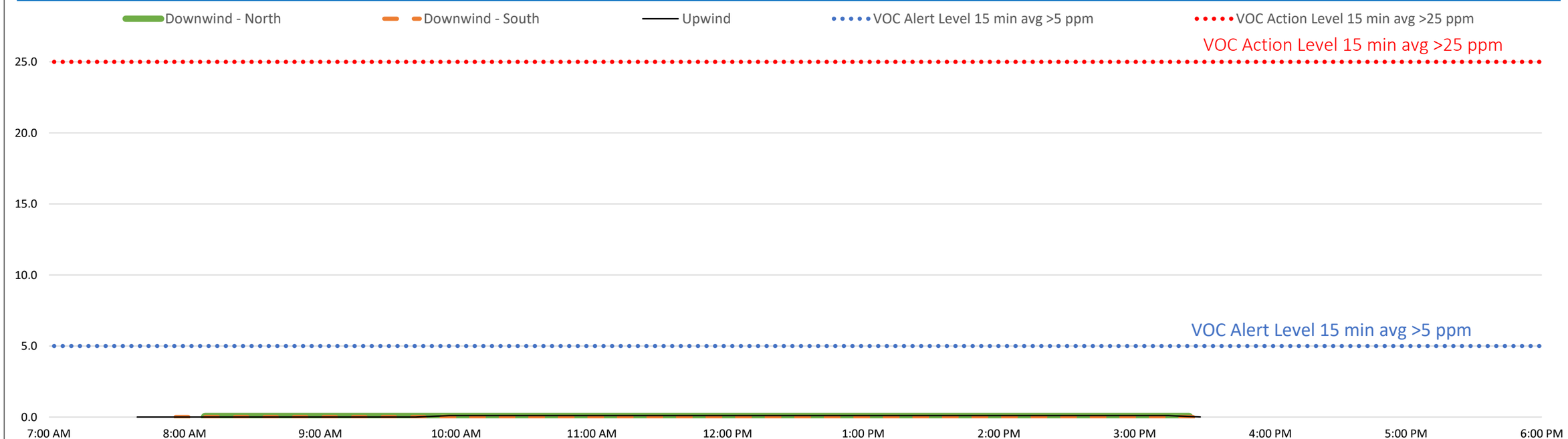


Fixed Station Daily Air Monitoring - March 29, 2023

Dust (mg/m3) 15 min avg

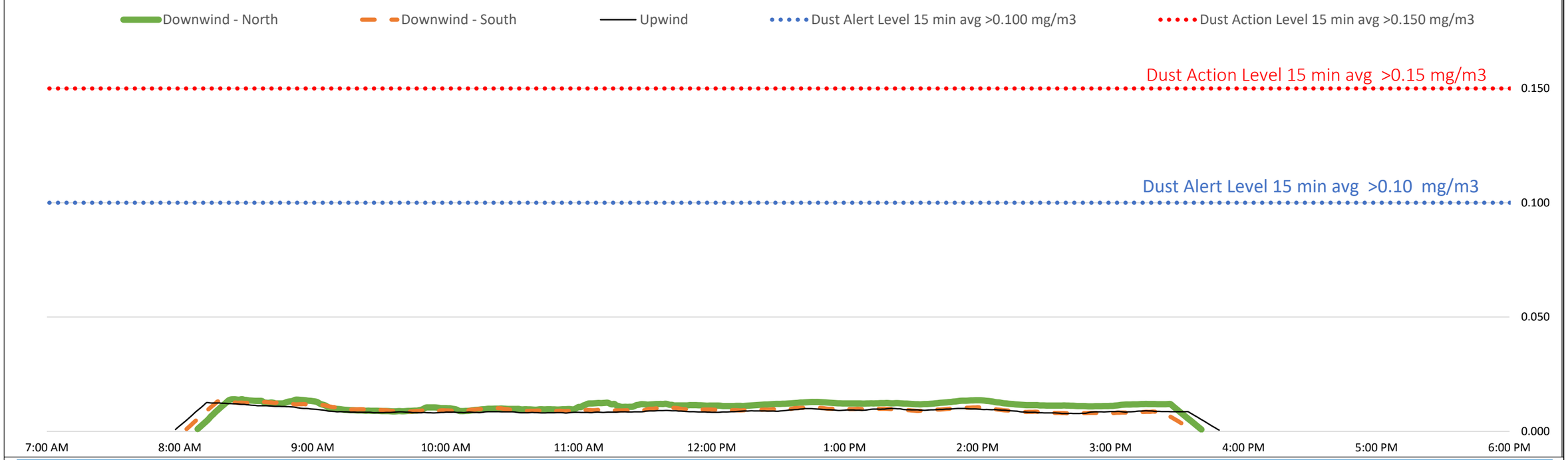


VOC (ppm) 15 min avg

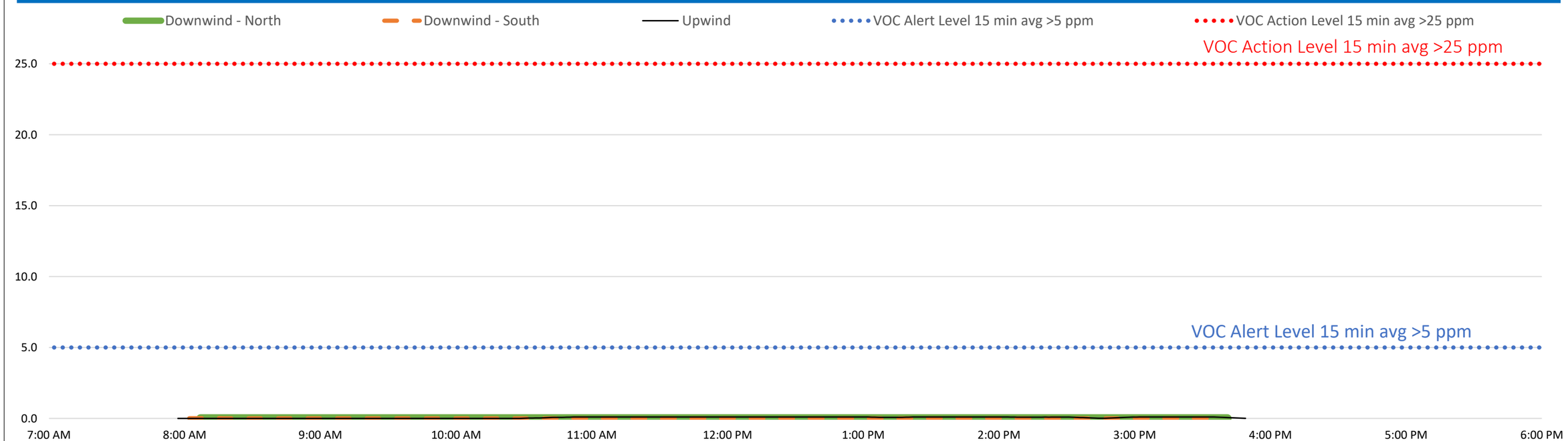


Fixed Station Daily Air Monitoring - March 30, 2023

Dust (mg/m3) 15 min avg

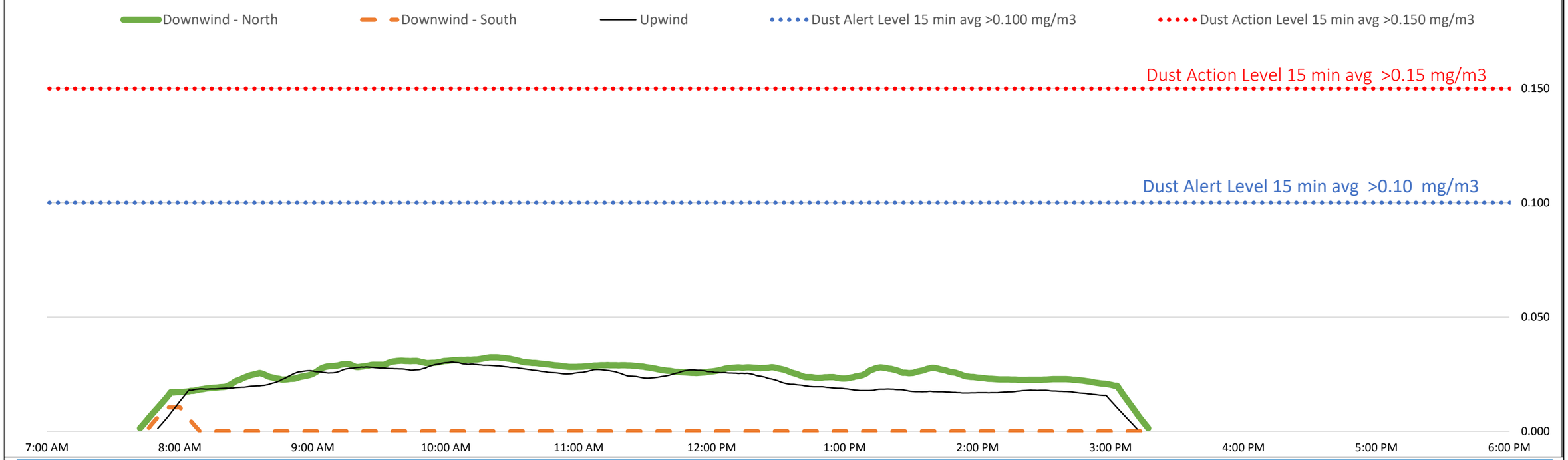


VOC (ppm) 15 min avg

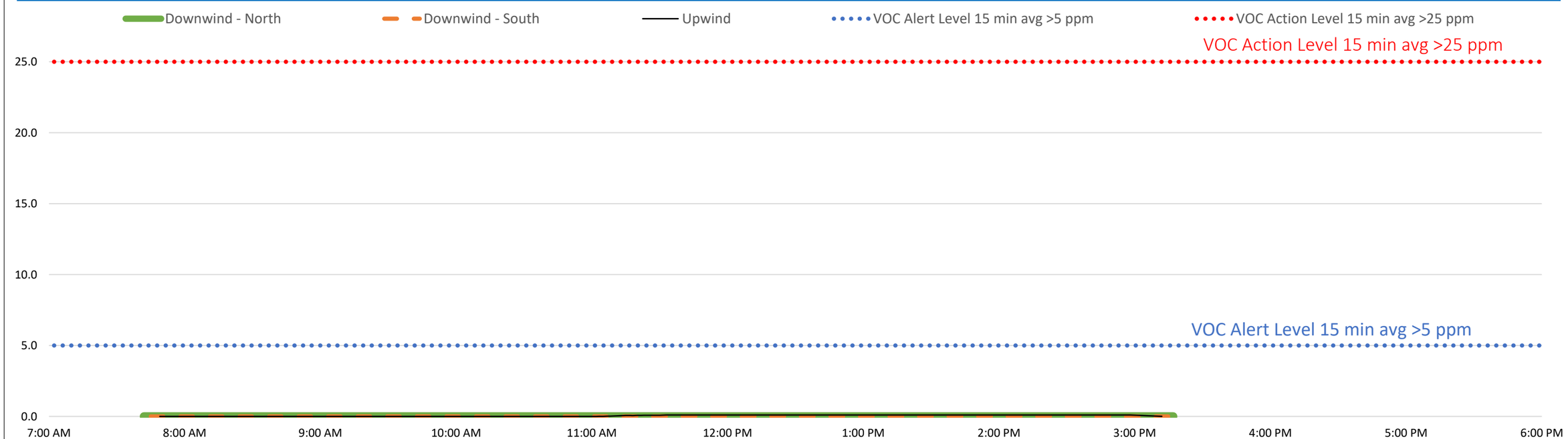


Fixed Station Daily Air Monitoring - March 31, 2023

Dust (mg/m3) 15 min avg

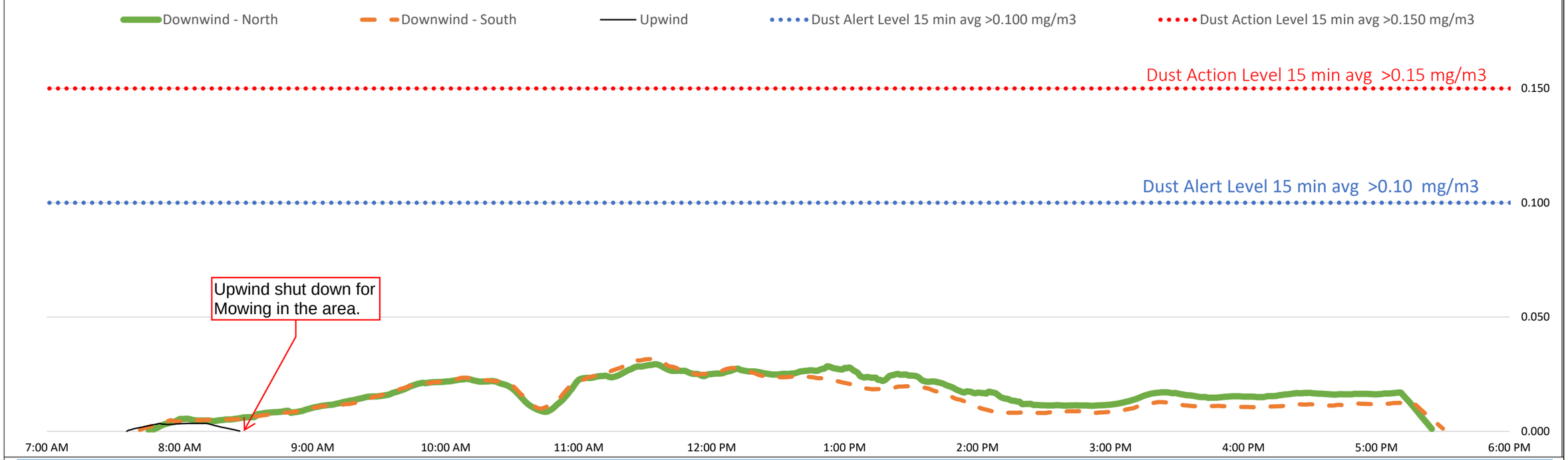


VOC (ppm) 15 min avg



Fixed Station Daily Air Monitoring - April 19, 2023

Dust (mg/m3) 15 min avg



VOC (ppm) 15 min avg

