

All results presented in this update are preliminary and subject to change.

Appendix A. Supporting Information

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Table A1. Full list of chemicals included in the discrete monitoring analysis from February 2024-June 2024. This included 28 heavy metals, 102 volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs), 6 aldehydes and ketones, 20 sulfur compounds, and 17 polycyclic aromatic hydrocarbons (PAHs). Additional columns include the site(s) (West LA College [WLAC], Sentinel Peak Resources [SPR]), detected, and whether associated health guidance values (HGVs) were available.

* Chromium, which primarily exists in two states, was assumed to be 99% trivalent (Chromium III) and 1% hexavalent (Chromium VI), in line with the SNAPS Lost Hills Draft Final Report and South Coast Air Quality Management District's MATES V Final Report.^{1,2}

Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
Total	102	28	6	20	17	17	81	74	72	65	26
1,1,1-Trichloroethane	X										
1,3-Butadiene	X						X		X		
Acetone	X						X	X	X	X	X
Acetonitrile	X										
Acrolein	X						X	X	X	X	X
Acrylonitrile	X										
Benzene	X						X	X	X	X	X
Bromomethane	X						X	X	X	X	X
Carbon Tetrachloride	X						X	X	X	X	X
Chloroform	X						X	X	X	X	X
cis-1,3-Dichloropropene	X										
Dichloromethane	X						X	X	X	X	
Ethylbenzene	X										

¹ California Air Resources Board. SNAPS Lost Hills Draft Final Report. Updated January 2024. <https://ww2.arb.ca.gov/resources/documents/snaps-lost-hills-draft-final-report>.

² South Coast Air Monitoring District. Multiple Air Toxics Exposure Study (MATES) V Final Report. August 2021. <https://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v>.

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Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
Freon 11	X						X	X	X	X	
Freon 113	X						X	X	X	X	X
Freon 12	X						X	X	X	X	X
m/p-Xylene	X										
o-Xylene	X										
Perchloroethylene	X						X	X	X	X	X
Styrene	X										
Toluene	X						X	X	X	X	X
Trans-1,3-Dichloropropene	X										
Trichloroethylene	X										
Vinyl Chloride	X										
Aluminum		X					X	X	X	X	
Antimony		X					X	X			
Arsenic		X					X	X	X	X	X
Barium		X					X	X	X	X	
Bromine		X					X	X	X	X	
Calcium		X					X	X	X	X	
Chlorine		X					X	X	X	X	
Chromium*		X					X	X	X	X	XX
Cobalt		X									
Copper		X					X	X	X	X	X
Iron		X					X	X	X	X	
Lead		X					X	X	X	X	
Manganese		X					X	X	X	X	X
Mercury		X					X	X			

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Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
Molybdenum		X									
Nickel		X					X	X	X	X	X
Phosphorus		X					X	X	X	X	
Potassium		X					X	X	X	X	
Rubidium		X					X	X	X	X	
Selenium		X					X	X	X	X	
Silicon		X					X	X	X	X	
Strontium		X					X	X	X	X	
Sulfur		X					X	X	X	X	
Tin		X					X	X	X	X	
Titanium		X					X	X	X	X	
Vanadium		X					X	X	X	X	X
Yttrium		X									
Zinc		X					X	X	X	X	X
Acetaldehyde			X				X	X	X	X	X
Formaldehyde			X				X	X	X	X	X
Hexaldehyde			X								
Methyl Ethyl Ketone			X				X	X	X	X	X
n-Butyraldehyde			X								
Propionaldehyde			X				X	X	X	X	
2,5-Dimethylthiophene				X							
2-Ethylthiophene				X							
3-Methyl Thiophene				X							
Carbon Disulfide				X			X	X	X	X	X
Carbonyl Sulfide				X			X	X	X	X	

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Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
Diethyl Disulfide				X							
Diethyl Sulfide				X							
Dimethyl Disulfide				X							
Dimethyl Sulfide				X			X		X		
Ethyl Mercaptan				X							
Ethyl Methyl Sulfide				X							
Hydrogen Sulfide				X			X	X	X	X	
Isobutyl Mercaptan				X							
Isopropyl Mercaptan				X							
Methyl Mercaptan				X							
n-Butyl Mercaptan				X							
n-Propyl Mercaptan				X							
tert-Butyl Mercaptan				X							
Tetrahydrothiophene				X							
Thiophene				X							
1,2,4,5-Tetrachlorobenzene	X										
1,2,4-Trichlorobenzene	X										
1,2-Dichlorobenzene	X										
1,3,5-Trinitrobenzene	X										
1,3-Dichlorobenzene	X										
1,4-Dichlorobenzene	X						X	X	X	X	
2,3,4,6-Tetrachlorophenol	X										
2,4,5-Trichlorophenol	X										
2,4,6-Trichlorophenol	X										
2,4-Dichlorophenol	X										

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Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
2,4-Dimethylphenol	X										
2,4-Dinitrophenol	X						X	X	X	X	
2,4-Dinitrotoluene	X										
2,6-Dichlorophenol	X										
2,6-Dinitrotoluene	X						X	X			
2-Acetylaminofluorene	X										
2-Chloronaphthalene	X										
2-Chlorophenol	X										
2-Methyl-4,6-Dinitrophenol	X						X	X	X	X	
2-Methylnaphthalene	X				X	X	X	X	X	X	X
2-Methylphenol	X										
2-Nitroaniline	X										
2-Nitrophenol	X						X	X	X	X	
3-Methylcholanthrene	X										
3-Nitroaniline	X										
4-Aminobiphenyl	X										
4-Bromophenyl Phenyl Ether	X										
4-Chloro-3-Methylphenol	X										
4-Chloroaniline	X										
4-Chlorophenyl Phenyl Ether	X										
4-Methylphenol&3-Methylphenol	X						X	X	X	X	
4-Nitroaniline	X										
4-Nitrophenol	X										
5-Nitro-O-Toluidine	X										

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Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
7,12-Dimethylbenz(a)anthracene	X				X	X					
Acenaphthene	X				X	X					
Acenaphthylene	X				X	X					
Acetophenone	X						X	X	X	X	
Aniline	X						X	X	X	X	
Anthracene	X				X	X					
Azobenzene	X										
Benz(a)anthracene	X				X	X					
Benzo(a)pyrene	X				X	X					
Benzo(a)fluoranthene	X				X	X					
Benzo(g,h,i)perylene	X				X	X					
Benzo(k)fluoranthene	X				X	X					
Benzyl Alcohol	X						X	X	X	X	
Bis(2-Chloroethoxy)Methane	X						X	X	X	X	
Bis(2-Chloroethyl)Ether	X										
Bis(2-Chloroisopropyl)Ether	X										
Bis(2-Ethylhexyl)Phthalate	X						X	X	X	X	X
Butyl Benzyl Phthalate	X										
Carbazole	X										
Chrysene	X				X	X					
Dibenz(a,h)anthracene	X				X	X					
Dibenzofuran	X						X		X		
Diethyl Phthalate	X						X	X	X	X	
Dimethyl Phthalate	X						X	X	X	X	

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Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
Di-N-Butyl Phthalate	X						X	X	X	X	
Di-N-Octyl Phthalate	X						X		X		
Dinoseb	X						X	X	X	X	
Diphenylamine	X										
Ethyl Methanesulfonate	X						X	X			
Fluoranthene	X				X	X					
Fluorene	X				X	X					
Hexachlorobenzene	X										
Hexachlorobutadiene	X										
Hexachlorocyclopentadiene	X										
Hexachloroethane	X										
Hexachloropropene	X										
Indeno(1,2,3-cd)pyrene	X				X	X					
Isophorone	X										
Isosafrole	X										
M-Dinitrobenzene	X										
Methyl Methanesulfonate	X										
Naphthalene	X				X	X	X	X	X	X	X
Nitrobenzene	X										
N-Nitrosodiethylamine	X										
N-Nitrosodimethylamine	X						X	X	X	X	
N-Nitrosodi-N-Butylamine	X						X	X	X	X	
N-Nitrosodi-N-Propylamine	X						X		X		
N-Nitrosomethylethylamine	X										
N-Nitrosomorpholine	X										

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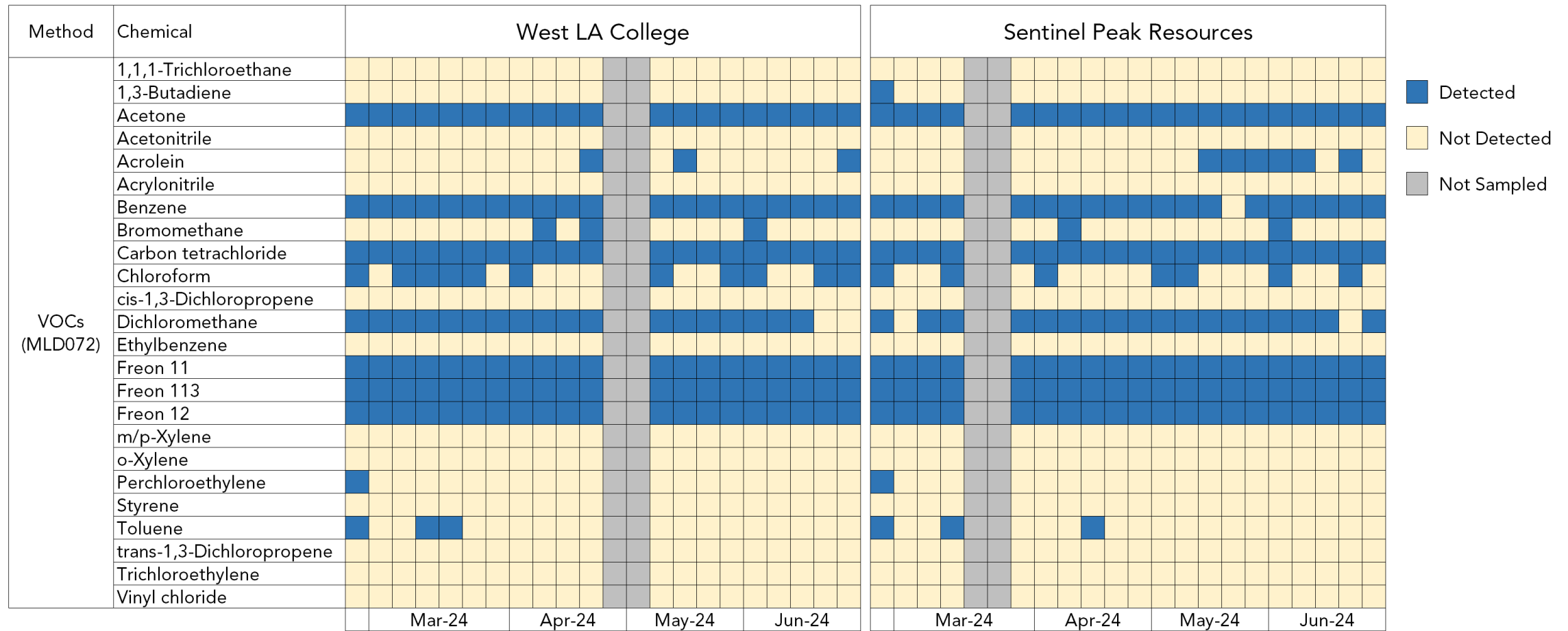
Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
N-Nitrosopiperidine	X						X		X		
N-Nitrosopyrrolidine	X										
O-Toluidine	X										
P-(Dimethylamino)Azobenzene	X										
Pentachlorobenzene	X										
Pentachloroethane	X										
Pentachloronitrobenzene	X										
Pentachlorophenol	X						X		X		
Phenacetin	X										
Phenanthrene	X				X	X	X	X	X	X	
Phenol	X						X	X	X	X	X
Pyrene	X										
2-Methylnaphthalene					X	X	X	X	X	X	X
Acenaphthene					X	X	X	X	X	X	
Acenaphthylene					X	X					
Anthracene					X	X	X	X			
Benz(a)anthracene					X	X					
Benzo(a)pyrene					X	X					
Benzo(b)fluoranthene					X	X					
Benzo(g,h,i)perylene					X	X	X	X			
Benzo(k)fluoranthene					X	X					
Chrysene					X	X					
Dibenz(a,h)anthracene					X	X	X	X			
Fluoranthene					X	X	X	X	X	X	
Fluorene					X	X	X	X	X	X	

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Chemical	VOCs and SVOCs	Metals	Aldehydes and Ketones	Sulfur	PAHs	Duplicate	Detected At Least Once	Detected at WLAC	Detected at SPR	Detected At Both Sites	Available HGV
Indeno(1,2,3-cd)pyrene					X	X	X	X			
Naphthalene					X	X	X	X	X	X	X
Phenanthrene					X	X	X	X	X	X	
Pyrene					X	X	X	X			

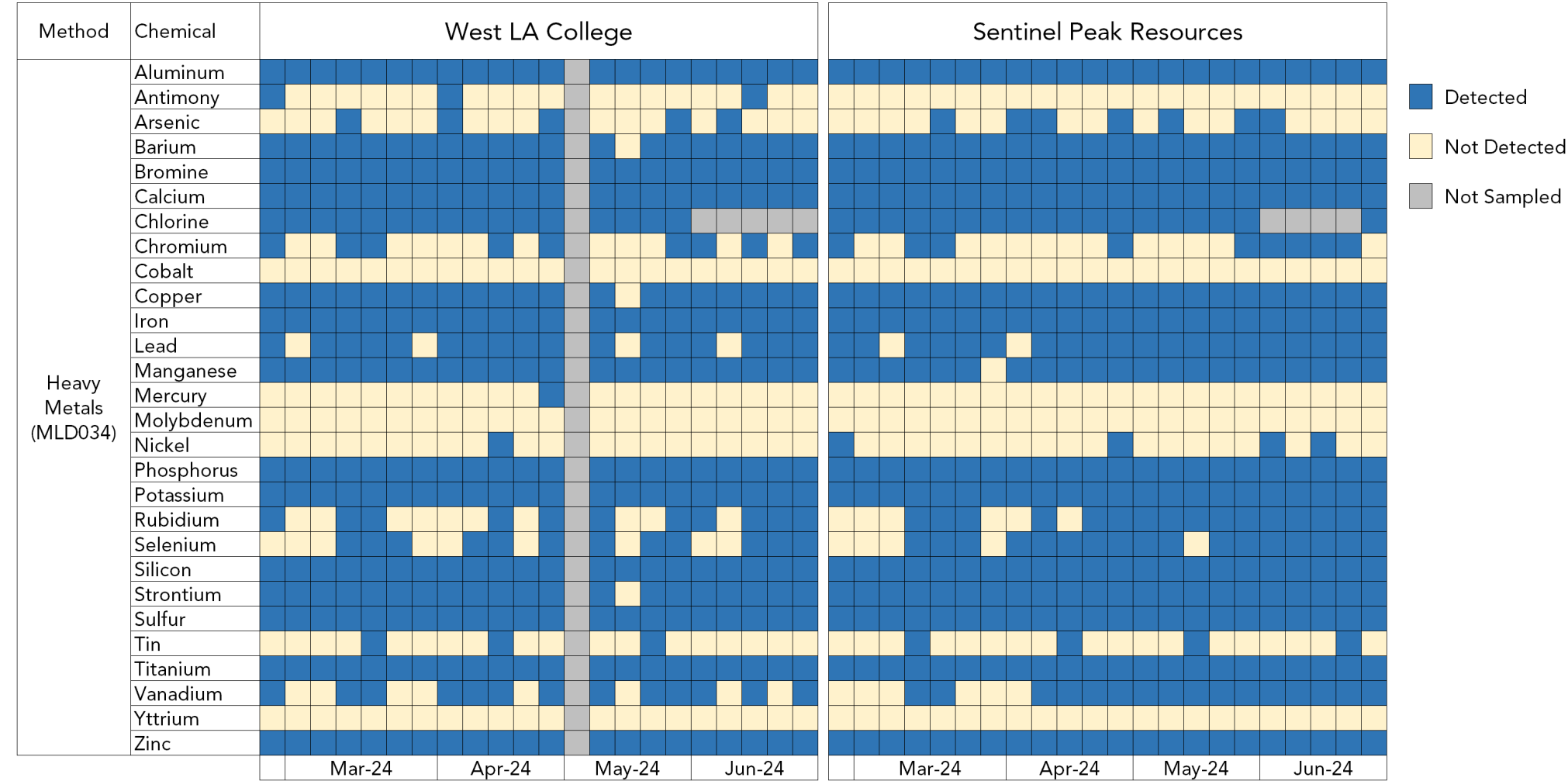
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Figure A1. Chemicals detected, not detected, and not sampled using VOC analytical chemistry method (MLD072) from SNAPS discrete monitoring analysis (February 2024-June 2024).



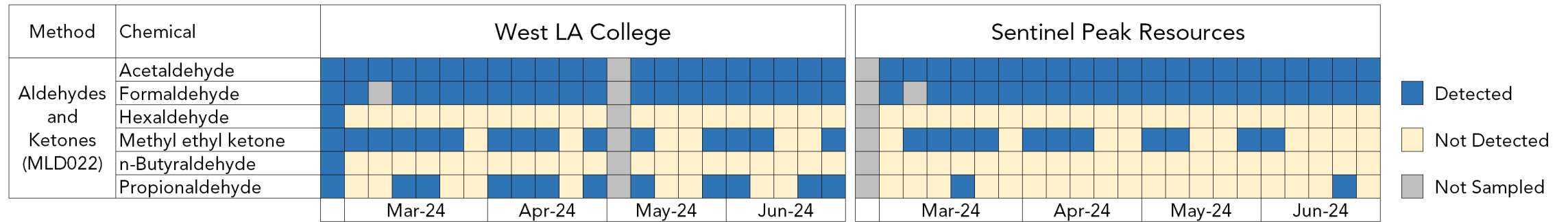
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Figure A2. Chemicals detected, not detected, and not sampled using metal analytical chemistry method (MLD034) from SNAPS discrete monitoring analysis (February 2024-June 2024).



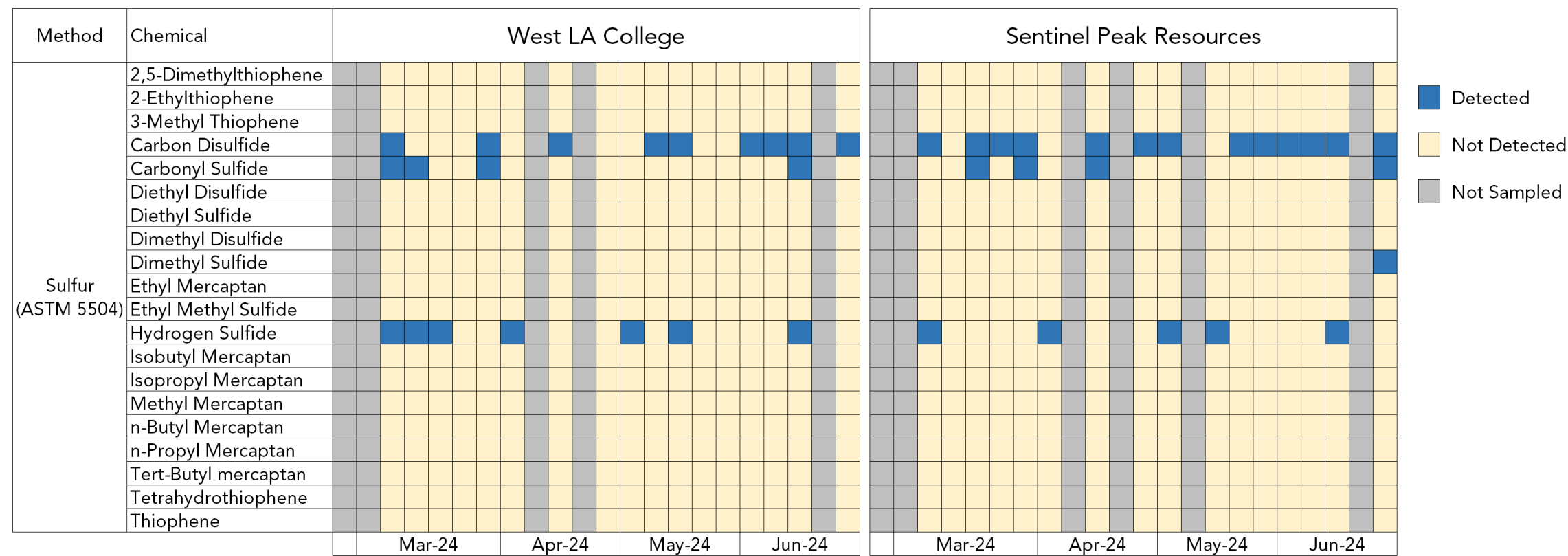
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Figure A3. Chemicals detected, not detected, and not sampled using aldehyde and ketone analytical chemistry method (MLD022) from SNAPS discrete monitoring analysis (February 2024-June 2024).



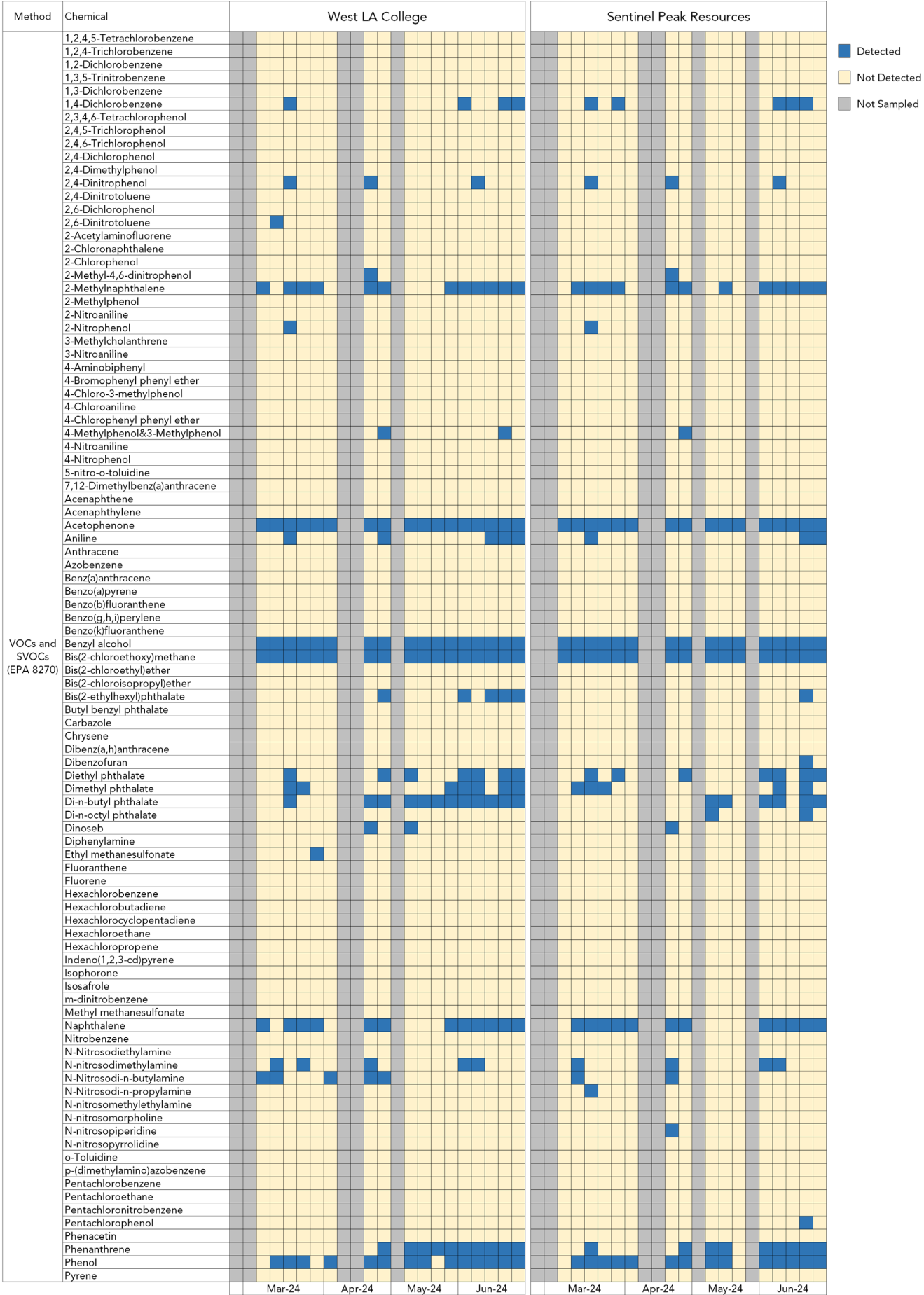
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Figure A4. Chemicals detected, not detected, and not sampled using sulfur analytical chemistry method (ASTM 5504) from SNAPS discrete monitoring analysis (February 2024-June 2024).



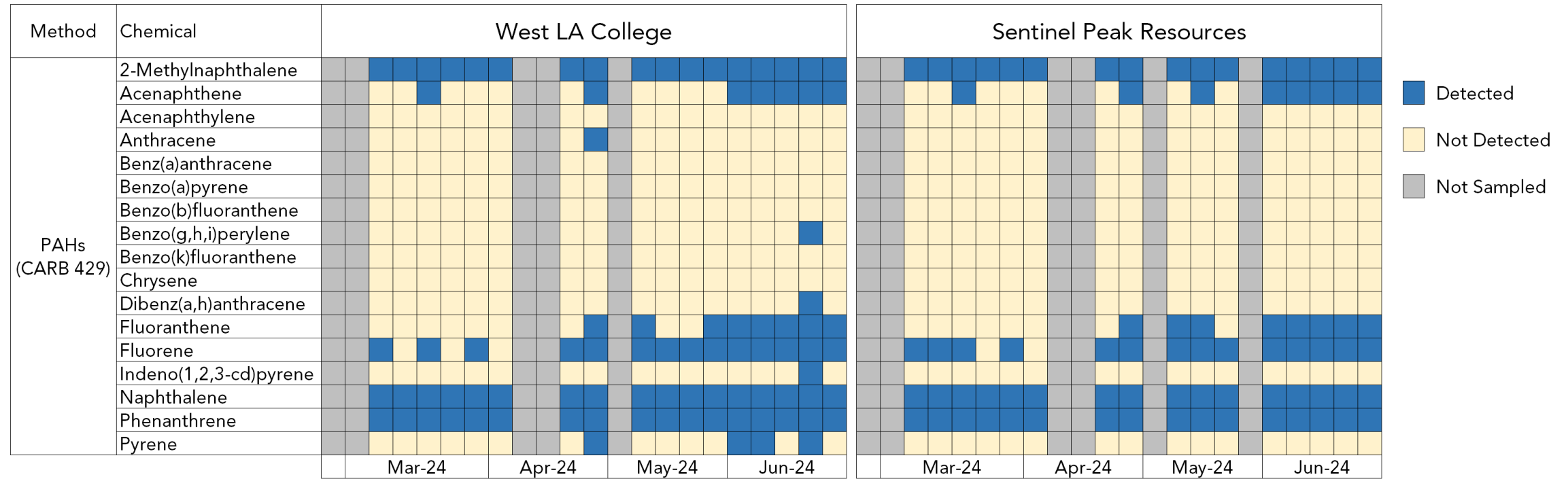
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Figure A5. Chemicals detected, not detected, and not sampled using VOC and SVOC analytical chemistry method (EPA 8270) from SNAPS discrete monitoring analysis (February 2024-June 2024).



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Figure A6. Chemicals detected, not detected, and not sampled using PAH analytical chemistry method (CARB 429) from SNAPS discrete monitoring analysis (February 2024-June 2024).



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References

1. California Air Resources Board. SNAPS Lost Hills Draft Final Report. Updated January 2024. <https://ww2.arb.ca.gov/resources/documents/snaps-lost-hills-draft-final-report>.
2. South Coast Air Monitoring District. Multiple Air Toxics Exposure Study (MATES) V Final Report. August 2021. <https://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v>.