



AGAT Laboratories

Desiree Hui

Leaders in Science



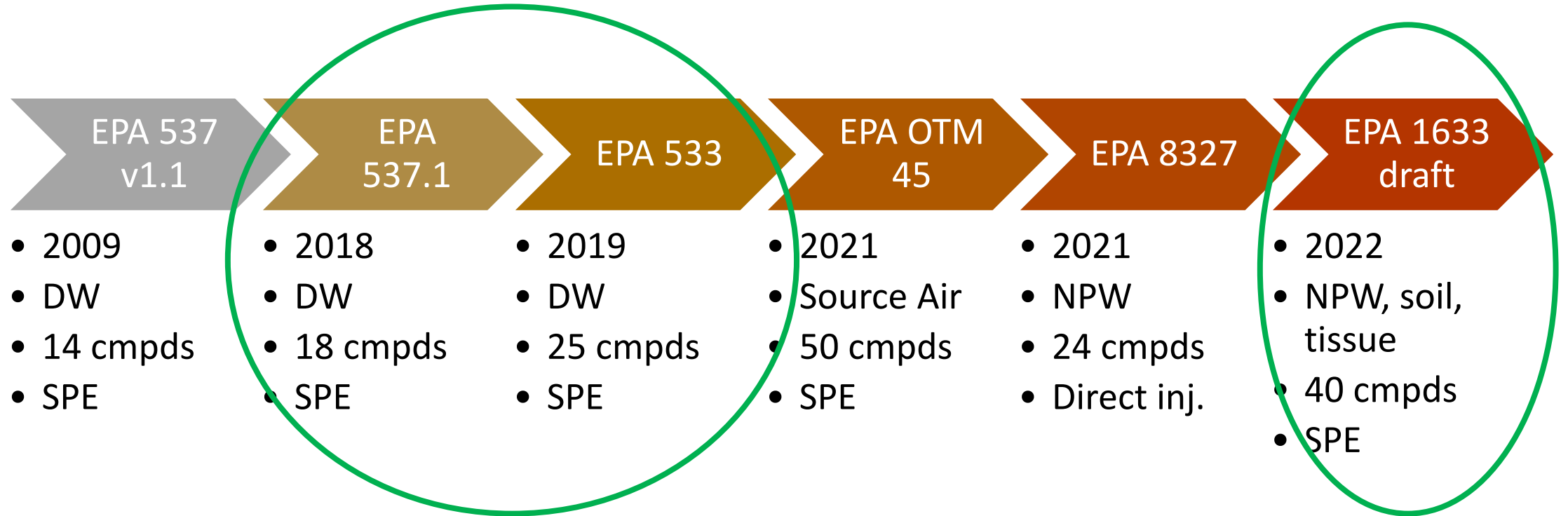
- Over 60% of employees specialized in the fields of science and hold a B.Sc., M.Sc., or PH.D.
- Collaborative R&D Initiatives
- Joined AGAT in August 2021 working out of the Forensics and High Res location in Calgary, Alberta.
- years' experience as a Supervisor running a Special Chemistries Clean Lab specializing in Dioxins, PCBs, etc in various matrices by HRMS.
- First introduced to PFAS testing in 2007

Coast to Coast locations



- 40+ locations across Canada.
- Environmental scientists, microbiologists, biochemists, chemists or engineers holding a B.Sc., M.Sc., or Ph.D. degree.
- Advanced instrumentation.
- PFAS analysis in Montreal with accreditation coming in Calgary and Mississauga.

PFAS Methods Timeline



Parameter comparison

Parameter	Method 537.1	Method 533	Method 1633
PFBA		X	X
PFPeA		X	X
PFHxA	X	X	X
PFHpA	X	X	X
PFOA	X	X	X
PFNA	X	X	X
PFDA	X	X	X
PFUnA	X	X	X
PFDoA	X	X	X
PFTTrDA	X		X
PFTeDA	X		X
PFBS	X	X	X
PFPeS		X	X
PFHxS	X	X	X
PFHpS		X	X
PFOS	X	X	X
PFNS			X
PFDS			X
PFDoS			X
PFOSA			X

Parameter	Method 537.1	Method 533	Method 1633
N-MeFOSAA	X		X
N-EtFOSAA	X		X
ADONA	X	X	X
HFPO-DA	X	X	X
9CI-PF3ONS	X	X	X
11CI-PF3OUdS	X	X	X
4:2-FTS		X	X
6:2-FTS		X	X
8:2-FTS		X	X
NFDHA		X	X
PFEESA		X	X
PFMBA		X	X
PFMPA		X	X
NMeFOSA			X
NEtFOSA			X
N-MeFOSE			X
N-EtFOSE			X
3:3 FTCA			X
5:3 FTCA			X
7:3 FTCA			X

Quantitative Analysis – LC-MS/MS

- Importance

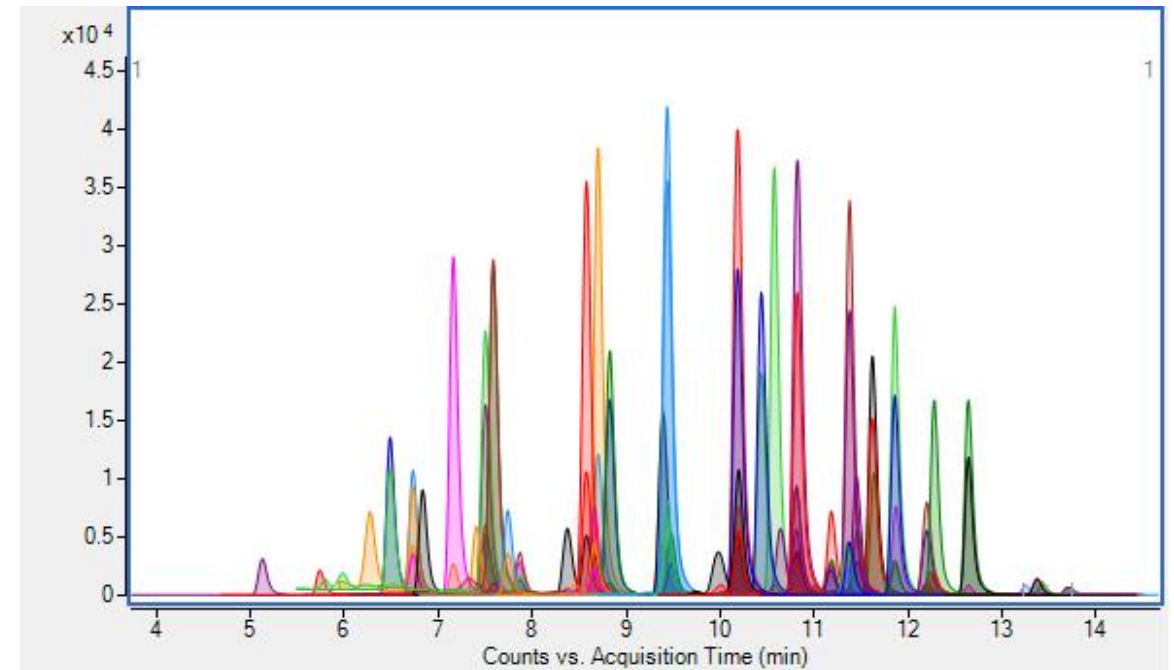
- Gold standard to derive definitive and sensitive information on PFAS.
- Selective and sensitive.
- Fast and reliable.
- Versatile.


- Where it can be used

- Regulatory compliance.
- Remediation and treatment studies.
- Monitoring surveys and risk assessment.

- Methods

- EPA 1633 for non-potable water/soil/tissue.
- EPA 533 for drinking water.
- Upcoming air methods.





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