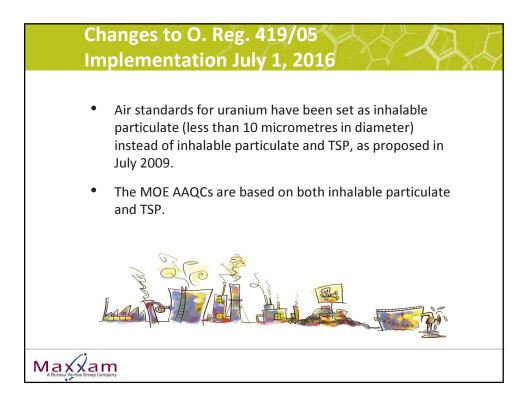
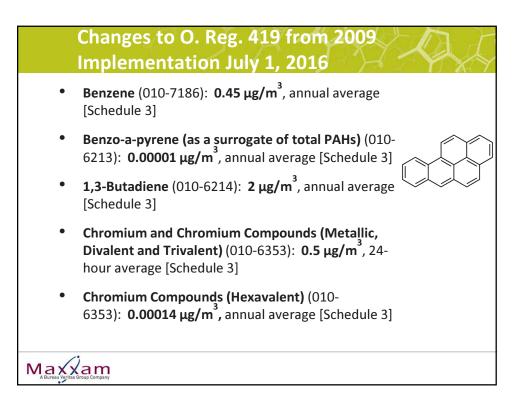
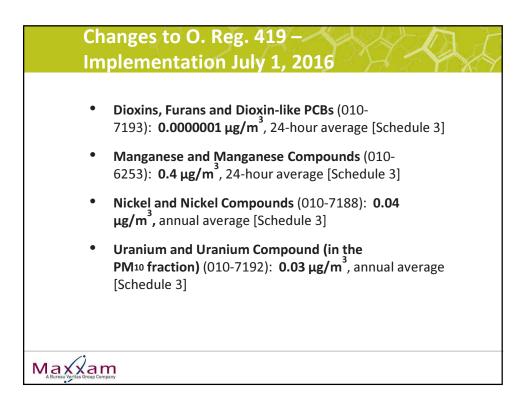
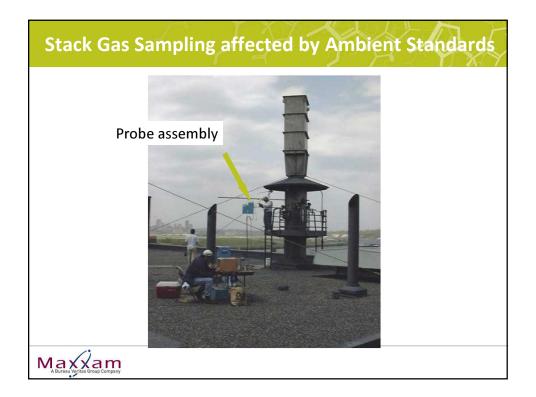


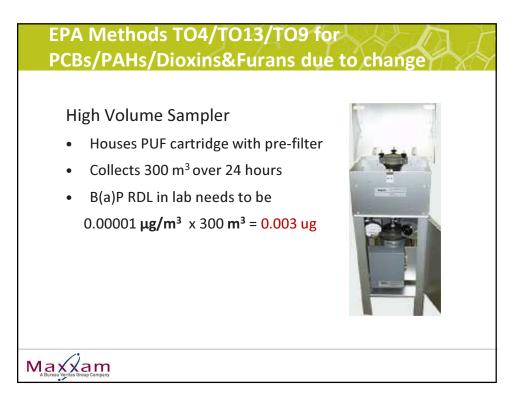
Changes to O. Reg. 419/05 Implementation July 1, 2016 Air standards for chromium, manganese and nickel have been set as total suspended particulate (TSP) instead of inhalable (PM10) particulate and TSP, as proposed in July 2009. The MOEEC has agreed with stakeholders that challenges in measuring different metal particulate size fractions in the emissions or the lack of availability of size-specific emission factors warrant a single regulatory limit based on TSP alone. The MOEEC AAQCs based on PM10 particulate and TSP and these remain unchanged.

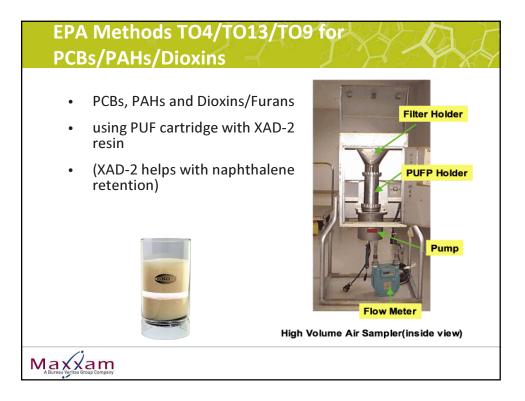












Polychlorinated dioxins	Non-ortho-substituted PCBs 3,3',4,4'-TCB (PCB77)		
2,3,7,8-TCDD			
1,2,3,7,8-PeCDD	3,4,4',5-TCB (PCB81)		
1,2,3,4,7,8-HxCDD	3,3',4,4',5-PeCB (PCB126)		
1,2,3,6,7,8-HxCDD	3,3',4,4',5,5'-HxCB (PCB169)		
1,2,3,7,8,9-HxCDD	Mono-ortho-substituted PCBs		
1,2,3,4,6,7,8-HpCDD	2,3,3',4,4'-PeCB (PCB105)		
OCDD	2,3,4,4',5-PeCB (PCB114)		
Polychlorinated dibenzofurans	2,3',4,4',5-PeCB (PCB118)		
2,3,7,8-TCDF	2',3,4,4',5-PeCB (PCB123)		
1,2,3,7,8-PeCDF	2,3,3',4,4',5-HxCB (PCB156)		
2,3,4,7,8-PeCDF	2,3,3',4,4',5'-HxCB (PCB157)		
1,2,3,4,7,8-HxCDF	2,3',4,4',5,5'-HxCB (PCB167)		
1,2,3,6,7,8-HxCDF	2,3,3',4,4',5,5'-HpCB (PCB189)		
1,2,3,7,8,9-HxCDF			
2,3,4,6,7,8-HxCDF			
1,2,3,4,6,7,8-HpCDF			
1,2,3,4,7,8,9-HpCDF			
CCDF			

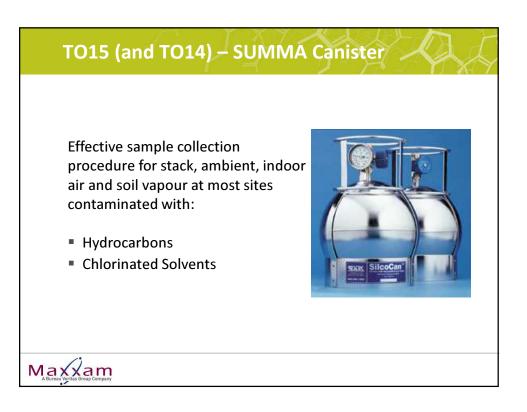
Sampling for VOCs such as Benzene and 1,3-Butadiene

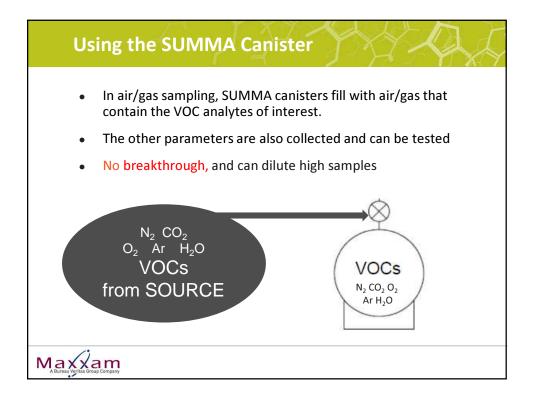
Evacuated, highly polished, stainless steel sampling container

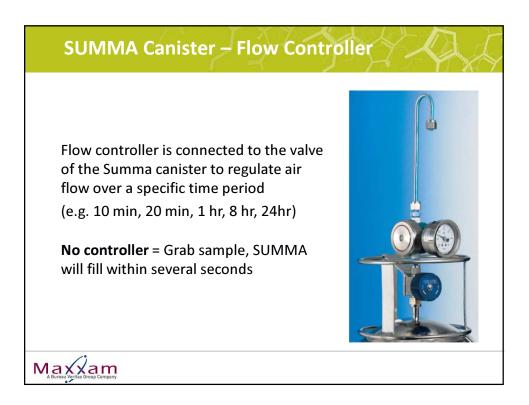


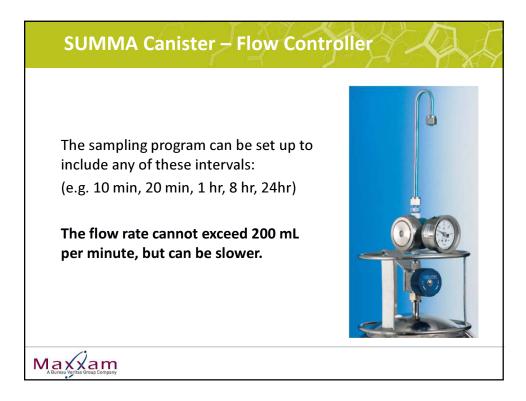
Canisters prevent permeation of VOCs through the vessel wall, and degradation due to exposure to sunlight during shipment to the analytical laboratory.

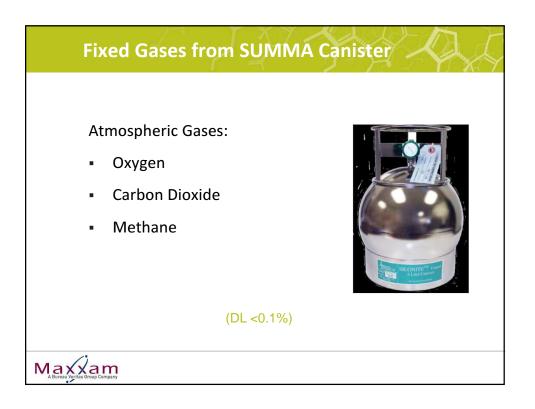
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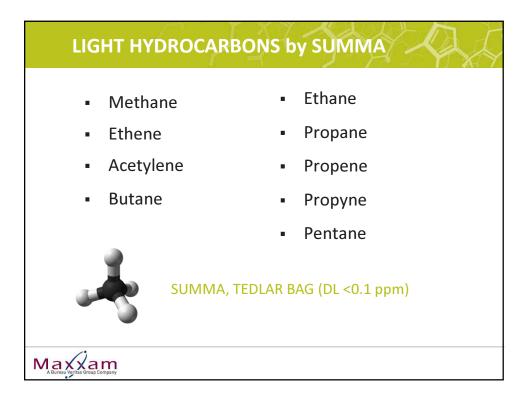


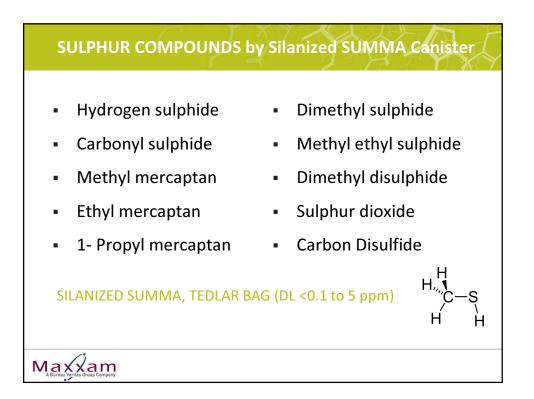


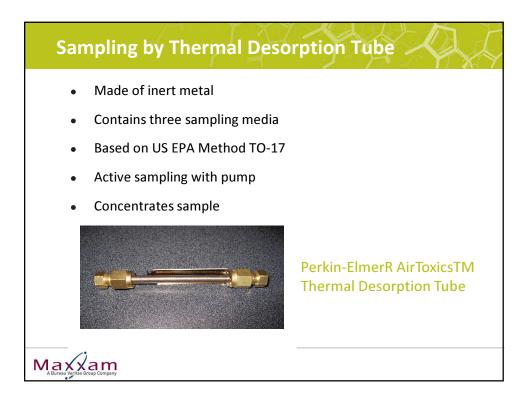


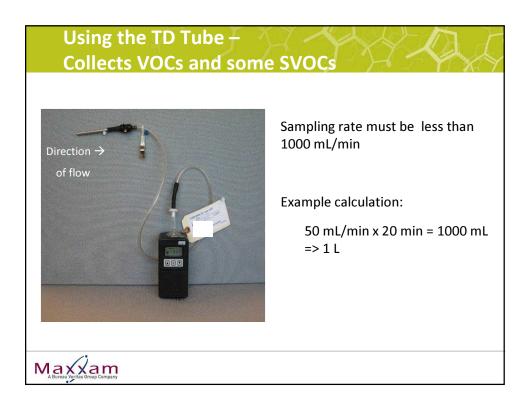


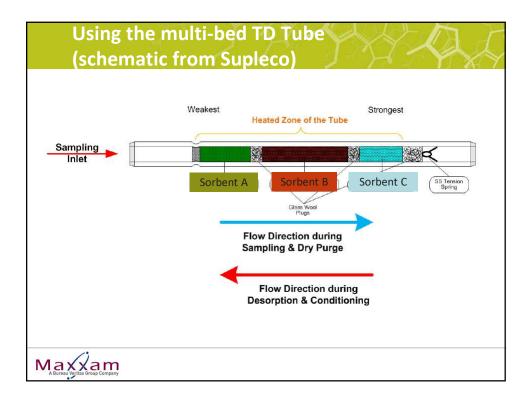


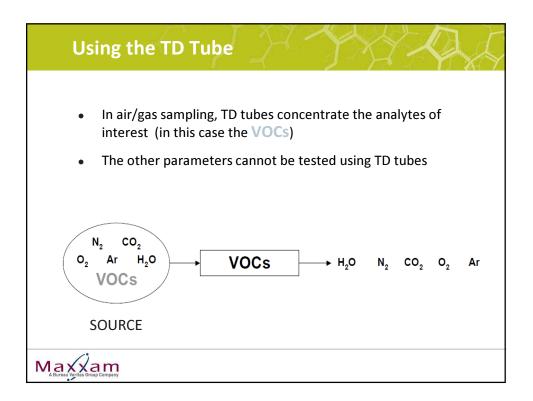


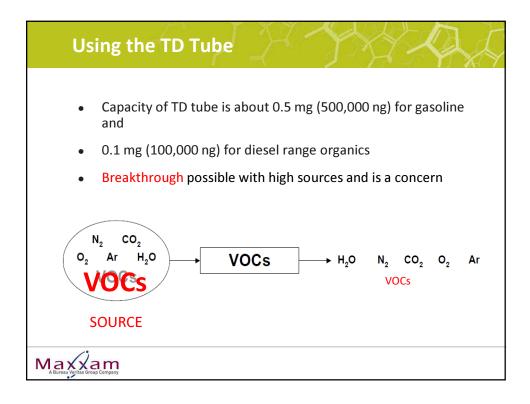


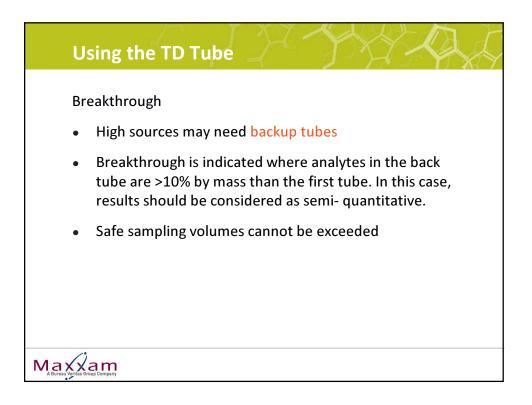


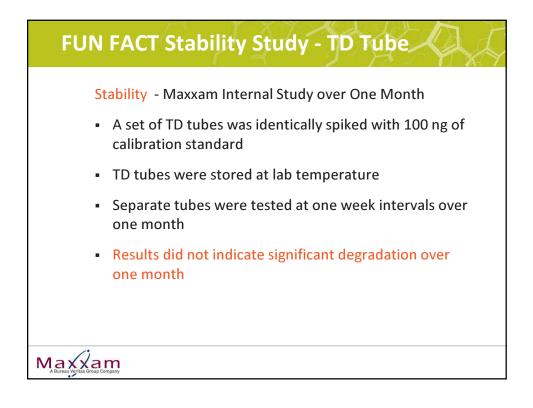


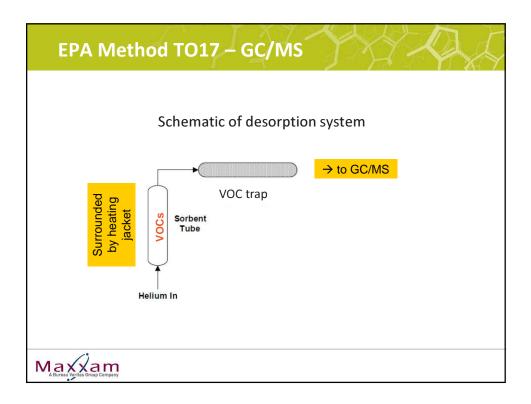


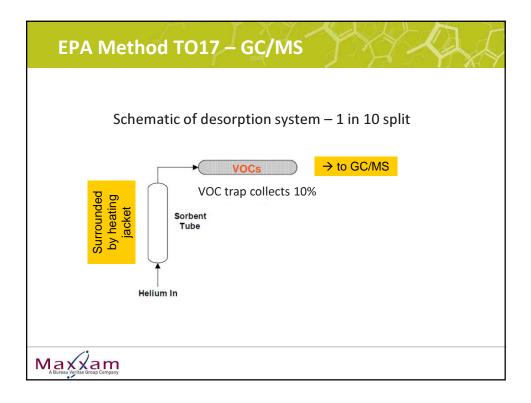


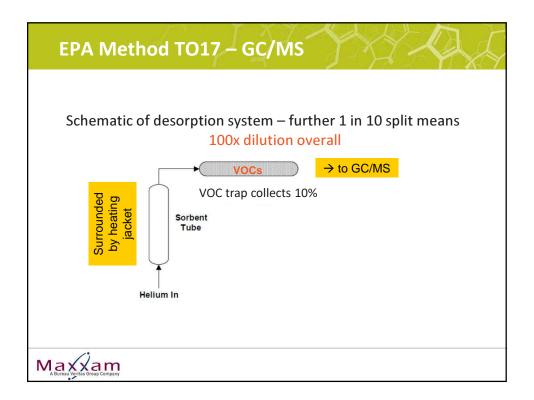


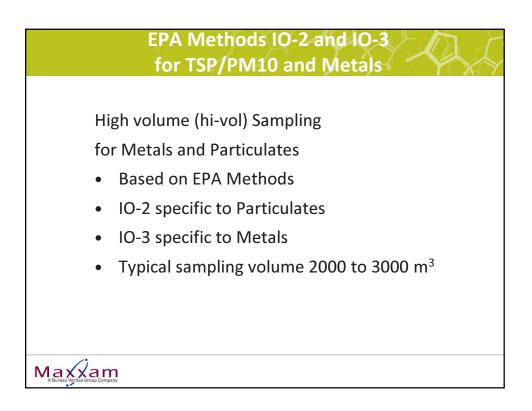








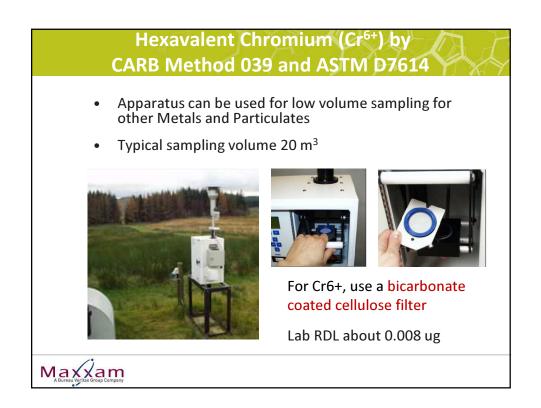


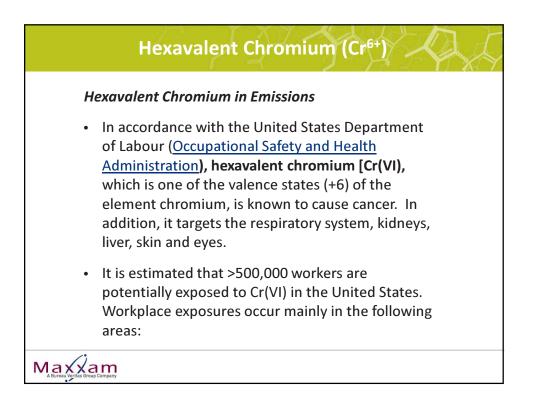


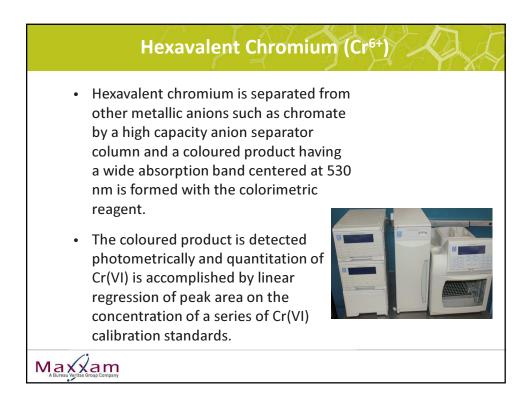


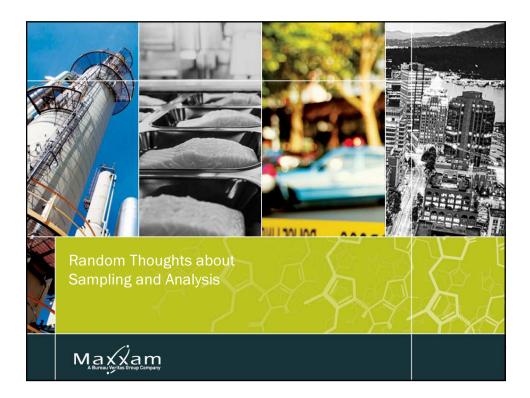
Hi-vol Sampling – Particulates/Metals				
Parameter	MDL (ug)	DL based on 3000 m3 (ug/m3)		
Particulates (TSP, PM10)	500	0.17		
Aluminum (Al)	20	0.007		
Antimony (Sb)	10	0.003		
Arsenic (As)	6	0.002		
Barium (Ba)	1	0.0003		
Beryllium (Be)	1	0.0003		
Bismuth (Bi)	6	0.002		
Boron (B)	6	0.002		
Cadmium (Cd)	2	0.001		
Calcium (Ca)	10	0.003		
Chromium (Cr)	2	0.001		
Cobalt (Co)	2	0.001		
Copper (Cu)	2	0.001		
Iron (Fe)	5	0.002		
Lead (Pb)	3	0.001		
Magnesium (Mg)	10	0.003		
Manganese (Mn)	1	0.0003		

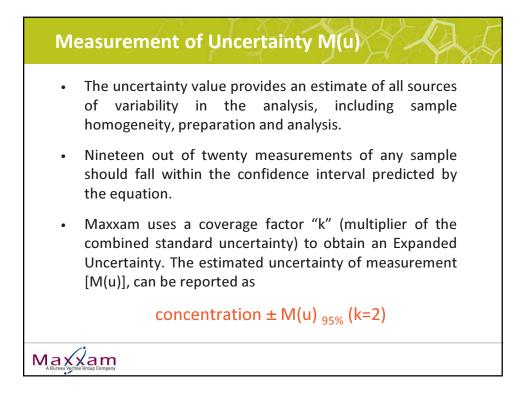
Hi-vol Sampling - Meta	IIs	
Parameter	MDL (ug)	DL based on 3000 m3 (ug/m3)
Molybdenum (Mo)	3	0.001
Nickel (Ni)	3	0.001
Phosphorus (P)	25	0.008
Potassium (K)	20	0.007
Selenium (Se)	10	0.003
Silver (Ag)	1	0.0003
Sodium (Na)	5	0.002
Strontium (Sr)	1	0.0003
Sulphur (S)	25	0.008
Thallium (TI)	10	0.003
Tin (Sn)	10	0.003
Titanium (Ti)	1	0.0003
Uranium (U)	30	0.010
Vanadium (V)	2	0.001
Zinc (Zn)	5	0.002
axxan Zirconium (Zr)	1	0.0003

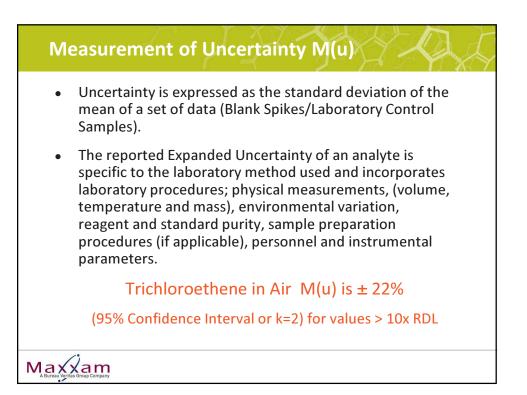


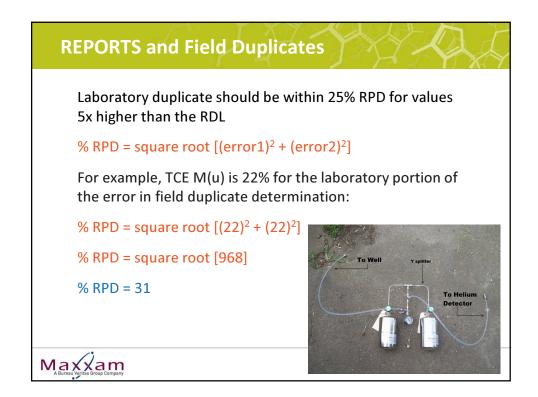


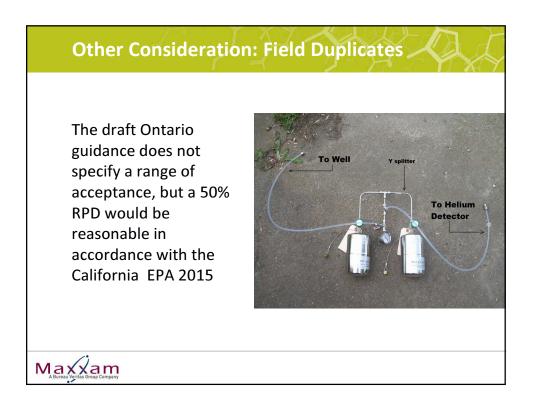












Petroleum Hydrocarbons – Ratio of F1 to n-Hexane

General literature states the n-hexane comprises about 1 to 3% of freshly refined gasoline – here are some recent results....

F1 (ug/m3)	Hexane (ug/m3)	% Hexane
6,830,000	566,000	8.3%
127,000	11,300	8.9%
6,720,000	573,000	8.5%
168,000	830	0.5%
96,800	171	0.2%
171,000	858	0.5%
28,200	3,430	12%
129,000	3,380	2.6%

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