Metals - Air Sampling Analytical Results (Unvalidated)

Indoor Air Sample Data **Draft Confidential - Do not distribute**

Fruitland Magnesium Incident
TDD: 02-1606001 / Site ID: A9AP

			MWF ÑETALS ñ11	MWF ÑETALS ñ12	MWF ÑETALS ñ13	MWF ÑETALS ñ14	MWF ÑETALS ñ15	MWF ÑETALS ñ16	MWF ÑETALS ñ17	MWF ÑETALS ñ18	MWF ÑETALS ñ19
			6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016
Analyte	Method	Units	in	in	in	in	in	in	in	in	in
			a	a	c	c	a	a	a	c	c
Aluminum	NIOSH 7303M	ug/m3	**1.16**	**0.911**	**0.972**	**0.795**	**1.01**	**0.974**	**1.56**	**1.21**	**1.32**
Antimony	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Arsenic	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Barium	NIOSH 7303M	ug/m3	**0.257**	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Beryllium	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Cadmium	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Calcium	NIOSH 7303M	ug/m3	**14.8**	**12.8**	**14.6**	**12.0**	**13.1**	**13.6**	**14.9**	**12.4**	**12.4**
Chromium	NIOSH 7303M	ug/m3	**0.314**	**0.354**	ND<0.25	**0.856**	**1.19**	**1.13**	**1.55**	**1.50**	ND<0.25
Cobalt	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Copper	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Iron	NIOSH 7303M	ug/m3	**1.23**	**0.681**	**0.333**	**0.532**	**1.34**	**0.932**	ND<0.25	ND<0.25	**2.83**
Lead	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Magnesium	NIOSH 7303M	ug/m3	**3.88**	**2.61**	**2.18**	**2.98**	**0.860**	**0.770**	**1.07**	**0.920**	ND<0.25
Manganese	NIOSH 7303M	ug/m3	**0.263**	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Molybdenum	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Nickel	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Potassium	NIOSH 7303M	ug/m3	**0.903**	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	**0.620**
Selenium	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Sodium	NIOSH 7303M	ug/m3	**3.95**	**3.42**	**4.06**	**2.60**	**4.93**	**4.75**	**5.80**	**6.12**	**5.67**
Thallium	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Vanadium	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Zinc	NIOSH 7303M	ug/m3	**0.496**	**0.272**	**0.343**	**0.422**	**0.266**	**6.12**	**0.326**	**0.304**	ND<0.25

Notes:

ug/m3 = micrograms per cubic meter

ND = Analyte not detected

a = adult breathing elevation

c = child breathing elevation

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Metals - Air Sampling Analytical Results (Unva

Indoor Air Sample Data **Draft Confid**

Fruitland Magnesium Incident
TDD: 02-1606001 / Site ID: A9AP

			MWF ÑETALS ò20	MWF ÑETALS ò23	MWF ÑETALS ò24	MWF ÑETALS ò25	MWF ÑETALS ò26	MWF ÑETALS ò27	MWF ÑETALS ò28	MWF ÑETALS ò29	MWF ÑETALS ò30
			6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016
Analyte	Method	Units	in	in	in	in	in	in	in	in	in
			c	a	c	a	c	c	a	a	c
Aluminum	NIOSH 7303M	ug/m3	**2.18**	**1.48**	**0.948**	**0.929**	**0.829**	**1.04**	**0.678**	**0.771**	**0.728**
Antimony	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Arsenic	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Barium	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Beryllium	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Cadmium	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Calcium	NIOSH 7303M	ug/m3	**10.6**	**7.91**	**6.25**	**6.00**	**4.49**	**5.10**	**4.58**	**1.08**	**0.537**
Chromium	NIOSH 7303M	ug/m3	**0.880**	ND<0.25	ND<0.25	**0.660**	ND<0.25	ND<0.25	ND<0.25	**1.12**	**0.579**
Cobalt	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Copper	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Iron	NIOSH 7303M	ug/m3	**1.46**	**0.696**	**0.841**	ND<0.25	ND<0.25	ND<0.25	ND<0.25	**3.85**	ND<0.25
Lead	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Magnesium	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	**0.312**	**0.366**
Manganese	NIOSH 7303M	ug/m3	ND<0.25	**1.32**	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Molybdenum	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Nickel	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Potassium	NIOSH 7303M	ug/m3	ND<0.25	**2.07**	**1.16**	**0.870**	ND<0.25	**0.683**	ND<0.25	ND<0.25	ND<0.25
Selenium	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Sodium	NIOSH 7303M	ug/m3	**5.42**	**8.38**	**6.36**	**5.97**	**4.39**	**5.00**	**5.03**	**2.47**	**3.04**
Thallium	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Vanadium	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25
Zinc	NIOSH 7303M	ug/m3	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25	ND<0.25

Notes:

ug/m3 = micrograms per cubic meter

ND = Analyte not detected

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