

Outdoor / Indoor Air Quality Study

September 7th, 2017

Location: 201 N. Ruby St. Ellensburg
Library/Holmes Community Center Roof

Purpose: Smoke Determination

Ruby Street AQI 172 $\mu\text{g}/\text{m}^3$ for PM2.5
(particulate) last reported download at 2:00
p.m. WAQA Value: 270



Barge: outside air (control) for PM2.5 at 1:00 p.m. was; N: 156 $\mu\text{g}/\text{m}^3$ /WAQA Value: 274;
W: 139 $\mu\text{g}/\text{m}^3$ /WAQA Value: 232; S: 167 $\mu\text{g}/\text{m}^3$ /WAQA Value: 290; E: 89.5 $\mu\text{g}/\text{m}^3$ /WAQA
Value 132; Avg. 138 $\mu\text{g}/\text{m}^3$ /WAQA Value: 233

Barge indoor 1st floor: average 1.3 $\mu\text{g}/\text{m}^3$ /WAQA Value: 17

Barge indoor 2nd floor: average 1.7 $\mu\text{g}/\text{m}^3$ /WAQA Value: 19

Barge indoor 3rd floor: average 1.1 $\mu\text{g}/\text{m}^3$ /WAQA Value: 13

Barge indoor 4th floor; average 0.5 $\mu\text{g}/\text{m}^3$ / WAQA Value: 7

Results: Avg. 1.2 $\mu\text{g}/\text{m}^3$ /WAQA Value: 14

Michaelsen/Randall Halls: outside air (control) for PM2.5 at 2:30 p.m. was; N: 162
 $\mu\text{g}/\text{m}^3$ /WAQA Value: 289; W: 142 $\mu\text{g}/\text{m}^3$ /WAQA Value: 271; S: 170 $\mu\text{g}/\text{m}^3$ /WAQA Value:
243; E: 142 $\mu\text{g}/\text{m}^3$ /WAQA Value: 292; Avg. 154 $\mu\text{g}/\text{m}^3$ /WAQA Value: 274

Michaelsen indoor 1st floor: average 0.7 $\mu\text{g}/\text{m}^3$ /WAQA Value: 9

Michaelsen indoor 2nd floor: average 0.5 $\mu\text{g}/\text{m}^3$ /WAQA Value: 7

Randall indoor 1st floor: average 1.6 $\mu\text{g}/\text{m}^3$ /WAQA Value: 18

Randall indoor 2nd floor; average 1.2 $\mu\text{g}/\text{m}^3$ /WAQA Value: 14

Results: Avg. 1.0 $\mu\text{g}/\text{m}^3$ /WAQA Value: 12

Sparks Residence Hall: outside air (control) for PM2.5 at 3:30 p.m. was; N: 171
 $\mu\text{g}/\text{m}^3$ /WAQA Value: 297; W: 159 $\mu\text{g}/\text{m}^3$ /WAQA Value: 274; S: 169 $\mu\text{g}/\text{m}^3$ /WAQA Value:
293; E: 151 $\mu\text{g}/\text{m}^3$ /WAQA Value: 260; Avg.: 163 $\mu\text{g}/\text{m}^3$ /WAQA Value: 281

Sparks indoor 1st floor west: average 0.7 $\mu\text{g}/\text{m}^3$ /WAQA Value: 16

Sparks indoor 1st floor east: average 0.9 $\mu\text{g}/\text{m}^3$ /WAQA Value: 21

Sparks indoor 2nd floor west: average 1.2 $\mu\text{g}/\text{m}^3$ /WAQA Value: 26

Sparks indoor 2nd floor east: average 0.9 $\mu\text{g}/\text{m}^3$ /WAQA Value: 20

Results: 0.9 $\mu\text{g}/\text{m}^3$ /WAQA Value: 21

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Readings taken with TSI DustTrak DRX 8533 Dust/Aerosol monitor Serial #: 03011120;
calibrated Mar 2017

Reference: Air Resources Board – Wildfire Smoke Guide

<https://www.arb.ca.gov/carpa/toolkit/data-to-mes/wildfire-smoke-guide.pdf>