Background Criteria Pollutant Air Monitoring Data for Modeling Rhode Island Sources (based on 2012 – 2014 monitoring data, unless otherwise indicated).

<u>SO</u>2

For sources in Bristol County and northern Newport County (based on Fall River monitor):

1-hour:	$123 \mu g/m^3$ (3-year average of 99th percentile of 1-hour daily maxima)
3-hour:	$200 \mu g/m^3$ (highest 2 nd annual daily high value in last 3 years)
24-hour:	53 μ g/m ³ (highest 2 nd annual daily average value in last 3 years) ¹
Annual:	$6.29 \ \mu g/m^3$ (highest annual mean in last 3 years) ¹

For sources in other Rhode Island locations (based on Brown University, Providence (BR) and Francis School, E. Providence (EP) monitors):

1-hour:	$36 \mu g/m^3$ (3-year average of 99th percentile of 1-hour daily maxima)-EP
3-hour:	$45 \mu g/m^3$ (highest 2 nd annual daily high value in last 3 years)-EP
24-hour:	$21 \mu \text{g/m}^3$ (highest 2 nd annual daily average value in last 3 years) ¹ -BR
Annual:	3.69 μ g/m ³ (highest annual mean in last 3 years) ¹ -BR

<u>NO₂</u> (based on Brown University, Providence monitor)

1-hour:	$80 \mu g/m^3$ (3-year average of 98 th percentile of 1-hour daily maxima)
Annual:	19.7 μ g/m ³ (highest annual mean in last 3 years)

<u>CO</u> (based on East Providence monitor)

1-hour:	$2,346 \mu g/m^3$	(highest 2 nd annual daily high value in last 3 years)
8-hour:	$1,495 \mu g/m^3$	(highest 2 nd annual daily high value in last 3 years)

<u>PM₁₀</u>

Urban near-roadway area (based on Vernon St., Pawtucket monitor)

24-hour: $44 \mu g/m^3$ (average 2nd annual daily average value in last 3 years)²

Urban/suburban area not near roadway (based on Providence monitors)

24-hour: $31 \,\mu\text{g/m}^3$ (average 2nd annual daily average value in last 3 years)

 $^{^{1}}$ 24-hour and annual average SO₂ standards will be revoked one year after designations for new NAAQS (Rhode Island designations expected in 2017).

² 2012 Vernon St., Pawtucket monitoring data are incomplete, so 2011, 2013 and 2014 data were used

Rural area (based on W. Greenwich monitor)

24-hour: $17 \,\mu g/m^3$ (average 2nd annual daily average value in last 3 years)

Note that the annual average PM_{10} NAAQS is no longer in effect

<u>PM_{2.5}</u>

Urban/suburban area (based on Pawtucket, Providence and E. Providence monitors)

24-hour:	$20.9 \ \mu g/m^3$ (3-year average of 98^{th} percentile) –Pawtucket monitor ²
Annual:	8.79 μ g/m ³ (3-year average of annual mean)- Pawtucket monitor ²

Rural area (based on W. Greenwich monitor)

24-hour:	13.1 μ g/m ³ (3-year average of 98 th percentile)
Annual:	5.17 μ g/m ³ (3-year average of annual mean)