

Vales Point Power Station Monthly Environmental Data Summary



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|------------------|--------------------------------------|---|
| LICENCE NO | 761 | http://www.epa.nsw.gov.au/prpoeoapp/ |
| LICENCE HOLDER | SUNSET POWER INTERNATIONAL PTY LTD | |
| REPORTING PERIOD | January 2020 | |
| ADDRESS | VALES POINT ROAD, MANNERING PARK NSW | |

| POINT 1 Cooling water outlet at Wyee Bay, marked and shown as "VPOC" on the Plan (VX837351, 30.06.2015, DOC15/381265). | | | | | | | | | | | |
|--|--------------------------|----------------------|------------------------------|------------------------------|--------------|---------------------|-----------------|----------------------|-----------|---------------------|--|
| Month | Pollutant | Unit of Measure | Sample/Measurement Frequency | Samples Collected & Analysed | Date Sampled | Lowest Sample Value | Mean of Samples | Highest Sample Value | EPL Limit | Exceedance (yes/no) | Comments |
| Jan-20 | Chlorine (free residual) | milligrams per litre | Monthly | 1 | 8/1/2020 | 0.03 | 0.03 | 0.03 | 0.2 | No | |
| Jan-20 | Temperature | degrees celsius | Continuous | 100% | Jan-20 | 29.4 | 32.8 | 37.8 | 37.5 | No* | *see comments section at bottom of page. |
| Jan-20 | Oil and Grease | Visible | Continuous | 100% | Jan-20 | NIL | NIL | NIL | | | No visible oil or grease detected during January 2020. |

| POINT 2 Discharge from the ash water recycle system to the cooling water outlet canal, marked and shown as "VPADB" on the Plan (VX837351, 30.06.2015, DOC15/381265). | | | | | | | | | | | |
|--|---------------------------------------|----------------------|------------------------------|------------------------------|--------------|---------------------|-----------------|----------------------|-----------|---------------------|---|
| Month | Pollutant | Unit of Measure | Sample/Measurement Frequency | Samples Collected & Analysed | Date Sampled | Lowest Sample Value | Mean of Samples | Highest Sample Value | EPL Limit | Exceedance (yes/no) | Comments |
| Jan-20 | Ammonia | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.2 | 0.2 | 0.2 | | | |
| Jan-20 | Cadmium | milligrams per litre | Quarterly | 1 | 8/1/2020 | <0.00002 | <0.00002 | <0.00002 | | | |
| Jan-20 | Copper | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.002 | 0.002 | 0.002 | | | |
| Jan-20 | Lead | milligrams per litre | Quarterly | 1 | 8/1/2020 | <0.0002 | <0.0002 | <0.0002 | | | |
| Jan-20 | Manganese | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0128 | 0.0128 | 0.0128 | | | |
| Jan-20 | Nitrate + nitrite (oxidised nitrogen) | milligrams per litre | Monthly | 1 | 8/1/2020 | 0.07 | 0.07 | 0.07 | | | |
| Jan-20 | Nitrogen (total) | milligrams per litre | Quarterly | 1 | 8/1/2020 | <0.5 | <0.5 | <0.5 | | | |
| Jan-20 | pH | pH | Monthly | 1 | 8/1/2020 | 8.66 | 8.66 | 8.66 | 6.5 - 9.5 | No | |
| Jan-20 | Phosphorus (total) | milligrams per litre | Monthly | 1 | 8/1/2020 | 0.08 | 0.08 | 0.08 | | | |
| Jan-20 | Reactive Phosphorus | milligrams per litre | Monthly | 1 | 8/1/2020 | 0.06 | 0.06 | 0.06 | | | |
| Jan-20 | Selenium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.028 | 0.028 | 0.028 | | | |
| Jan-20 | Total Kjeldahl Nitrogen | milligrams per litre | Quarterly | 1 | 8/1/2020 | <0.5 | <0.5 | <0.5 | | | |
| Jan-20 | Total Suspended Solids | milligrams per litre | Fortnightly | 4 | Jan-20 | 79 | 93 | 120 | 50 | Yes | Background TSS concentration in Lake Macquarie higher than TSS concentration at EPA2 when exceedances occurred. |
| Jan-20 | Zinc | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.007 | 0.007 | 0.007 | | | |

| POINT 4 Seepage from ash dam rehabilitated area, marked and shown as "VPADS" on the Plan (VX837351, 30.06.2015, DOC15/381265). | | | | | | | | | | | |
|--|---------------------------------------|----------------------|------------------------------|------------------------------|--------------|---------------------|-----------------|----------------------|-----------|---------------------|--|
| Month | Pollutant | Unit of Measure | Sample/Measurement Frequency | Samples Collected & Analysed | Date Sampled | Lowest Sample Value | Mean of Samples | Highest Sample Value | EPL Limit | Exceedance (yes/no) | Comments |
| Jan-20 | Ammonia | milligrams per litre | Quarterly | 1 | 8/1/2020 | | | | | | |
| Jan-20 | Cadmium | milligrams per litre | Quarterly | 1 | 8/1/2020 | | | | | | |
| Jan-20 | Copper | milligrams per litre | Quarterly | 1 | 8/1/2020 | | | | | | |
| Jan-20 | Lead | milligrams per litre | Quarterly | 1 | 8/1/2020 | | | | | | |
| Jan-20 | Manganese | milligrams per litre | Quarterly | 1 | 8/1/2020 | | | | | | |
| Jan-20 | Nitrate + nitrite (oxidised nitrogen) | milligrams per litre | Monthly | 1 | 8/1/2020 | | | | | | ** Seepage water sampled is captured and pumped back to the ash dam. There was no licence 'discharge to waters' (i.e. to Mannering Bay) during January 2020. |
| Jan-20 | Nitrogen (total) | milligrams per litre | Quarterly | 1 | 8/1/2020 | | | | | | |
| Jan-20 | pH | pH | Monthly | 1 | 8/1/2020 | | | | | | |
| Jan-20 | Phosphorus (total) | milligrams per litre | Monthly | 1 | 8/1/2020 | | | | | | |
| Jan-20 | Selenium | milligrams per litre | Quarterly | 1 | 8/1/2020 | | | | | | |
| Jan-20 | Total Kjeldahl Nitrogen | milligrams per litre | Quarterly | 1 | 8/1/2020 | | | | | | |
| Jan-20 | Total Suspended Solids | milligrams per litre | Monthly | 1 | 8/1/2020 | | | | 50 | No | |
| Jan-20 | Zinc | milligrams per litre | Quarterly | 1 | 8/1/2020 | | | | | | |

| POINT 18 Overboarding of Ash Dam, marked and shown as "VPADD" on the Plan (VX837351, 30.06.2015, DOC15/381265). | | | | | | | | | | | |
|---|---------------------------------------|----------------------|------------------------------|------------------------------|--------------|---------------------|-----------------|----------------------|-----------|---------------------|----------|
| Month | Pollutant | Unit of Measure | Sample/Measurement Frequency | Samples Collected & Analysed | Date Sampled | Lowest Sample Value | Mean of Samples | Highest Sample Value | EPL Limit | Exceedance (yes/no) | Comments |
| Jan-20 | Ammonia | milligrams per litre | Daily for discharge >2 hrs | | | | | | | | |
| Jan-20 | Cadmium | milligrams per litre | Daily for discharge >2 hrs | | | | | | | | |
| Jan-20 | Copper | milligrams per litre | Daily for discharge >2 hrs | | | | | | | | |
| Jan-20 | Lead | milligrams per litre | Daily for discharge >2 hrs | | | | | | | | |
| Jan-20 | Manganese | milligrams per litre | Daily for discharge >2 hrs | | | | | | | | |
| Jan-20 | Nitrate + nitrite (oxidised nitrogen) | milligrams per litre | Daily for discharge >2 hrs | | | | | | | | |
| Jan-20 | Nitrogen (total) | milligrams per litre | Daily for discharge >2 hrs | | | | | | | | |
| Jan-20 | pH | pH | Daily for discharge >2 hrs | | | | | | 6.5 - 9.0 | | |
| Jan-20 | Phosphorus (total) | milligrams per litre | Daily for discharge >2 hrs | | | | | | | | |
| Jan-20 | Selenium | milligrams per litre | Daily for discharge >2 hrs | | | | | | | | |
| Jan-20 | Total Kjeldahl Nitrogen | milligrams per litre | Daily for discharge >2 hrs | | | | | | | | |
| Jan-20 | Total Suspended Solids | milligrams per litre | Daily for discharge >2 hrs | | | | | | 50 | | |
| Jan-20 | Zinc | milligrams per litre | Daily for discharge >2 hrs | | | | | | | | |

| POINT 19 Groundwater bore, marked and shown as "VPGM/D3" on the Plan (VX837351, 30.06.2015, DOC15/381265). | | | | | | | | | | | | |
|--|-------------------------|-----------------------------|------------------------------|------------------------------|--------------|---------------------|-----------------|----------------------|-----------|---------------------|--|--|
| Month | Pollutant | Unit of Measure | Sample/Measurement Frequency | Samples Collected & Analysed | Date Sampled | Lowest Sample Value | Mean of Samples | Highest Sample Value | EPL Limit | Exceedance (yes/no) | Comments | |
| Jan-20 | Arsenic | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0143 | 0.0143 | 0.0143 | | | | |
| Jan-20 | Cadmium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0005 | 0.0005 | 0.0005 | | | | |
| Jan-20 | Calcium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 843 | | 843 | | | | |
| Jan-20 | Chromium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.001 | 0.001 | 0.001 | | | | |
| Jan-20 | Copper | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.008 | 0.008 | 0.008 | | | | |
| Jan-20 | Electrical conductivity | microsiemens per centimetre | Quarterly | 1 | 8/1/2020 | 31500 | 31500 | 31500 | | | | |
| Jan-20 | Iron | milligrams per litre | Quarterly | 1 | 8/1/2020 | 51.2 | | 51.2 | | | | |
| Jan-20 | Lead | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.004 | 0.004 | 0.004 | | | | |
| Jan-20 | Magnesium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 789 | 789 | 789 | | | (next quarterly sample scheduled for April 2020) | |
| Jan-20 | Manganese | milligrams per litre | Quarterly | 1 | 8/1/2020 | 2.18 | 2.18 | 2.18 | | | | |
| Jan-20 | Nickel | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0232 | 0.0232 | 0.0232 | | | | |
| Jan-20 | pH | pH | Quarterly | 1 | 8/1/2020 | 5.82 | 5.82 | 5.82 | | | | |
| Jan-20 | Potassium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 102 | 102 | 102 | | | | |
| Jan-20 | Selenium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.002 | 0.002 | 0.002 | | | | |
| Jan-20 | Sodium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 5790 | 5790 | 5790 | | | | |
| Jan-20 | Standing Water Level | metres | Quarterly | 1 | 8/1/2020 | 3.96 | 3.96 | 3.96 | | | | |
| Jan-20 | Zinc | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.121 | 0.121 | 0.121 | | | | |

| POINT 20 Groundwater bore, marked and shown as "VPGM/D5" on the Plan (VX837351, 30.06.2015, DOC15/381265). | | | | | | | | | | | | |
|--|-------------------------|-----------------------------|------------------------------|------------------------------|--------------|---------------------|-----------------|----------------------|-----------|---------------------|--|--|
| Month | Pollutant | Unit of Measure | Sample/Measurement Frequency | Samples Collected & Analysed | Date Sampled | Lowest Sample Value | Mean of Samples | Highest Sample Value | EPL Limit | Exceedance (yes/no) | Comments | |
| Jan-20 | Arsenic | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0103 | 0.0103 | 0.0103 | | | | |
| Jan-20 | Cadmium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.00005 | 0.00005 | 0.00005 | | | | |
| Jan-20 | Calcium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 458 | 458 | 458 | | | | |
| Jan-20 | Chromium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0004 | 0.0004 | 0.0004 | | | | |
| Jan-20 | Copper | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.003 | 0.003 | 0.003 | | | | |
| Jan-20 | Electrical conductivity | microsiemens per centimetre | Quarterly | 1 | 8/1/2020 | 26500 | 26500 | 26500 | | | | |
| Jan-20 | Iron | milligrams per litre | Quarterly | 1 | 8/1/2020 | 182 | 182 | 182 | | | | |
| Jan-20 | Lead | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0028 | 0.0028 | 0.0028 | | | | |
| Jan-20 | Magnesium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 837 | 837 | 837 | | | (next quarterly sample scheduled for April 2020) | |
| Jan-20 | Manganese | milligrams per litre | Quarterly | 1 | 8/1/2020 | 2.77 | 2.77 | 2.77 | | | | |
| Jan-20 | Nickel | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.116 | 0.116 | 0.116 | | | | |
| Jan-20 | pH | pH | Quarterly | 1 | 8/1/2020 | 5.48 | 5.48 | 5.48 | | | | |
| Jan-20 | Potassium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 36 | 36 | 36 | | | | |
| Jan-20 | Selenium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0034 | 0.0034 | 0.0034 | | | | |
| Jan-20 | Sodium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 460 | 460 | 460 | | | | |
| Jan-20 | Standing Water Level | metres | Quarterly | 1 | 8/1/2020 | 1.19 | 1.19 | 1.19 | | | | |
| Jan-20 | Zinc | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.272 | 0.272 | 0.272 | | | | |

| POINT 21 Groundwater bore, marked and shown as "VPGM/D6" on the Plan (VX837351, 30.06.2015, DOC15/381265). | | | | | | | | | | | | |
|--|-------------------------|-----------------------------|------------------------------|------------------------------|--------------|---------------------|-----------------|----------------------|-----------|---------------------|--|--|
| Month | Pollutant | Unit of Measure | Sample/Measurement Frequency | Samples Collected & Analysed | Date Sampled | Lowest Sample Value | Mean of Samples | Highest Sample Value | EPL Limit | Exceedance (yes/no) | Comments | |
| Jan-20 | Arsenic | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0115 | 0.0115 | 0.0115 | | | | |
| Jan-20 | Cadmium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.00011 | 0.00011 | 0.00011 | | | | |
| Jan-20 | Calcium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 230 | | 230 | | | | |
| Jan-20 | Chromium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0022 | 0.0022 | 0.0022 | | | | |
| Jan-20 | Copper | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0112 | 0.0112 | 0.0112 | | | | |
| Jan-20 | Electrical conductivity | microsiemens per centimetre | Quarterly | 1 | 8/1/2020 | 22500 | 22500 | 22500 | | | | |
| Jan-20 | Iron | milligrams per litre | Quarterly | 1 | 8/1/2020 | 2.52 | 2.52 | 2.52 | | | | |
| Jan-20 | Lead | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0884 | 0.0884 | 0.0884 | | | (next quarterly sample scheduled for April 2020) | |
| Jan-20 | Magnesium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 346 | 346 | 346 | | | | |
| Jan-20 | Manganese | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.535 | 0.535 | 0.535 | | | | |
| Jan-20 | Nickel | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0151 | 0.0151 | 0.0151 | | | | |
| Jan-20 | pH | pH | Quarterly | 1 | 8/1/2020 | 3.56 | 3.56 | 3.56 | | | | |
| Jan-20 | Potassium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 3 | 3 | 3 | | | | |
| Jan-20 | Selenium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0062 | 0.0062 | 0.0062 | | | | |
| Jan-20 | Sodium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 4090 | 4090 | 4090 | | | | |
| Jan-20 | Standing Water Level | metres | Quarterly | 1 | 8/1/2020 | 3.88 | 3.88 | 3.88 | | | | |
| Jan-20 | Zinc | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.09 | 0.09 | 0.09 | | | | |

| POINT 22 Groundwater bore, marked and shown as "VPGM/D8" on the Plan (VX837351, 30.06.2015, DOC15/381265). | | | | | | | | | | | |
|--|-------------------------|-----------------------------|------------------------------|------------------------------|--------------|---------------------|-----------------|----------------------|-----------|---------------------|--|
| Month | Pollutant | Unit of Measure | Sample/Measurement Frequency | Samples Collected & Analysed | Date Sampled | Lowest Sample Value | Mean of Samples | Highest Sample Value | EPL Limit | Exceedance (yes/no) | Comments |
| Jan-20 | Arsenic | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0019 | 0.0019 | 0.0019 | | | |
| Jan-20 | Cadmium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0002 | 0.0002 | 0.0002 | | | |
| Jan-20 | Calcium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 518 | 518 | 518 | | | |
| Jan-20 | Chromium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0014 | 0.0014 | 0.0014 | | | |
| Jan-20 | Copper | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.014 | 0.014 | 0.014 | | | |
| Jan-20 | Electrical conductivity | microsiemens per centimetre | Quarterly | 1 | 8/1/2020 | 50300 | 50300 | 50300 | | | |
| Jan-20 | Iron | milligrams per litre | Quarterly | 1 | 8/1/2020 | 35.9 | 35.9 | 35.9 | | | |
| Jan-20 | Lead | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0047 | 0.0047 | 0.0047 | | | |
| Jan-20 | Magnesium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 1440 | 1440 | 1440 | | | (next quarterly sample scheduled for April 2020) |
| Jan-20 | Manganese | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.4 | 0.4 | 0.4 | | | |
| Jan-20 | Nickel | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0037 | 0.0037 | 0.0037 | | | |
| Jan-20 | pH | pH | Quarterly | 1 | 8/1/2020 | 6.61 | 6.61 | 6.61 | | | |
| Jan-20 | Potassium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 341 | 341 | 341 | | | |
| Jan-20 | Selenium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.002 | 0.002 | 0.002 | | | |
| Jan-20 | Sodium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 11000 | 11000 | 11000 | | | |
| Jan-20 | Standing Water Level | metres | Quarterly | 1 | 8/1/2020 | 0.71 | 0.71 | 0.71 | | | |
| Jan-20 | Zinc | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.037 | 0.037 | 0.037 | | | |

| POINT 23 Groundwater bore, marked and shown as "VPGM/D10" on the Plan (VX837351, 30.06.2015, DOC15/381265). | | | | | | | | | | | |
|---|-------------------------|-----------------------------|------------------------------|------------------------------|--------------|---------------------|-----------------|----------------------|-----------|---------------------|--|
| Month | Pollutant | Unit of Measure | Sample/Measurement Frequency | Samples Collected & Analysed | Date Sampled | Lowest Sample Value | Mean of Samples | Highest Sample Value | EPL Limit | Exceedance (yes/no) | Comments |
| Jan-20 | Arsenic | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0131 | 0.0131 | 0.0131 | | | |
| Jan-20 | Cadmium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.00012 | 0.00012 | 0.00012 | | | |
| Jan-20 | Calcium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 1 | 1 | 1 | | | |
| Jan-20 | Chromium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0789 | 0.0789 | 0.0789 | | | |
| Jan-20 | Copper | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.121 | 0.121 | 0.121 | | | |
| Jan-20 | Electrical conductivity | microsiemens per centimetre | Quarterly | 1 | 8/1/2020 | 567 | 567 | 567 | | | |
| Jan-20 | Iron | milligrams per litre | Quarterly | 1 | 8/1/2020 | 3.69 | 3.69 | 3.69 | | | |
| Jan-20 | Lead | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0579 | 0.0579 | 0.0579 | | | |
| Jan-20 | Magnesium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 11 | 11 | 11 | | | (next quarterly sample scheduled for April 2020) |
| Jan-20 | Manganese | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.121 | 0.121 | 0.121 | | | |
| Jan-20 | Nickel | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0394 | 0.0394 | 0.0394 | | | |
| Jan-20 | pH | pH | Quarterly | 1 | 8/1/2020 | 5.06 | 5.06 | 5.06 | | | |
| Jan-20 | Potassium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 2 | 2 | 2 | | | |
| Jan-20 | Selenium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.0041 | 0.0041 | 0.0041 | | | |
| Jan-20 | Sodium | milligrams per litre | Quarterly | 1 | 8/1/2020 | 114 | 114 | 114 | | | |
| Jan-20 | Standing Water Level | metres | Quarterly | 1 | 8/1/2020 | 2.52 | 2.52 | 2.52 | | | |
| Jan-20 | Zinc | milligrams per litre | Quarterly | 1 | 8/1/2020 | 0.186 | 0.186 | 0.186 | | | |

| POINT 11 Stack serving Boiler Unit No. 5, marked and shown as "11" on the Plan (VX837351, 30.06.2015, DOC15/381265). | | | | | | | | | | | |
|--|---|----------------------------|------------------------------|------------------------------|--------------|---------------------|-----------------|----------------------|-----------|---------------------|----------|
| Month | Pollutant | Unit of Measure | Sample/Measurement Frequency | Samples Collected & Analysed | Date Sampled | Lowest Sample Value | Mean of Samples | Highest Sample Value | EPL Limit | Exceedance (yes/no) | Comments |
| Jan-20 | Cadmium | milligrams per cubic metre | Yearly | | | | | | 1 | No | |
| Jan-20 | Chlorine | milligrams per cubic metre | Yearly | | | | | | 200 | No | |
| Jan-20 | Copper | milligrams per cubic metre | Yearly | | | | | | | | |
| Jan-20 | Hydrogen chloride | milligrams per cubic metre | Yearly | | | | | | 100 | No | |
| Jan-20 | Mercury | milligrams per cubic metre | Yearly | | | | | | 1 | No | |
| Jan-20 | Moisture | percent | Yearly | | | | | | | | |
| Jan-20 | Molecular weight of stack gases | grams per gram mole | Yearly | | | | | | | | |
| Jan-20 | Nitrogen Oxides | milligrams per cubic metre | Continuous | 100% | Jan-20 | 363 | 634 | 1117 | 1500 | No | |
| Jan-20 | Sulfuric acid mist and sulfur trioxide (as SO3) | milligrams per cubic metre | Yearly | | | | | | 100 | No | |
| Jan-20 | Sulphur dioxide | parts per million | Continuous | 100% | Jan-20 | 200 | 290 | 419 | 600 | No | |
| Jan-20 | Temperature | degrees Celsius | Yearly | | | | | | | | |
| Jan-20 | Total Fluoride | milligrams per cubic metre | Yearly | | | | | | 50 | No | |
| Jan-20 | Total Solid Particles | milligrams per cubic metre | Yearly | | | | | | 100 | No | |
| Jan-20 | Type 1 and Type 2 substances in aggregate | milligrams per cubic metre | Yearly | | | | | | 5 | No | |
| Jan-20 | Undifferentiated Particulates | milligrams per cubic metre | Continuous | 100% | Jan-20 | 6.2 | 19.0 | 27.2 | | | |
| Jan-20 | Velocity | metres per second | Yearly | | | | | | | | |
| Jan-20 | Volatile organic compounds | parts per million | Yearly | | | | | | | | |
| Jan-20 | Volumetric flowrate | cubic metres per second | Yearly | | | | | | | | |

POINT 12 Stack serving Boiler Unit No. 6, marked and shown as "12" on the Plan (VX837351, 30.06.2015, DOC15/381265).

| Month | Pollutant | Unit of Measure | Sample/Measurement Frequency | Samples Collected & Analysed | Date Sampled | Lowest Sample Value | Mean of Samples | Highest Sample Value | EPL Limit | Exceedance (yes/no) | Comments |
|--------|---|----------------------------|------------------------------|------------------------------|--------------|---------------------|-----------------|----------------------|-----------|---------------------|----------|
| Jan-20 | Cadmium | milligrams per cubic metre | Yearly | | | | | | 1 | No | |
| Jan-20 | Chlorine | milligrams per cubic metre | Yearly | | | | | | 200 | No | |
| Jan-20 | Copper | milligrams per cubic metre | Yearly | | | | | | | | |
| Jan-20 | Hydrogen chloride | milligrams per cubic metre | Yearly | | | | | | 100 | No | |
| Jan-20 | Mercury | milligrams per cubic metre | Yearly | | | | | | 1 | No | |
| Jan-20 | Moisture | percent | Yearly | | | | | | | | |
| Jan-20 | Molecular weight of stack gases | grams per gram mole | Yearly | | | | | | | | |
| Jan-20 | Nitrogen Oxides | milligrams per cubic metre | Continuous | 100% | Jan-20 | 525 | 799 | 1197 | 1500 | No | |
| Jan-20 | Sulfuric acid mist and sulfur trioxide (as SO3) | milligrams per cubic metre | Yearly | | | | | | 100 | No | |
| Jan-20 | Sulphur dioxide | parts per million | Continuous | 100% | Jan-20 | 190 | 272 | 383 | 600 | No | |
| Jan-20 | Temperature | degrees Celsius | Yearly | | | | | | | | |
| Jan-20 | Total Fluoride | milligrams per cubic metre | Yearly | | | | | | 50 | No | |
| Jan-20 | Total Solid Particles | milligrams per cubic metre | Yearly | | | | | | 100 | No | |
| Jan-20 | Type 1 and Type 2 substances in aggregate | milligrams per cubic metre | Yearly | | | | | | 5 | No | |
| Jan-20 | Undifferentiated Particulates | milligrams per cubic metre | Continuous | 100% | Jan-20 | 3.0 | 5.5 | 9.0 | | | |
| Jan-20 | Velocity | metres per second | Yearly | | | | | | | | |
| Jan-20 | Volatile organic compounds | parts per million | Yearly | | | | | | | | |
| Jan-20 | Volumetric flowrate | cubic metres per second | Yearly | | | | | | | | |

GENERAL COMMENTS

The outlet canal temperature exceeded 37.5°C during Australian Energy Market Operator (AEMO) lack of reserve (LOR) conditions when the maximum permissible temperature is increased to 38.5°C. Condition E1.2 of the Vales Point Power Station Environment Protection Licence outlines the conditions under which the normal 37.5°C outlet canal temperature limit can be exceeded. The following link explains what LOR conditions are in further detail. <<https://aemo.com.au/news/aemo-market-notifications-explained>>