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|---------------------------|----------------------------------|
| EPL No: | 854 |
| Entity Name: | NationWide Oil Pty Ltd |
| Site: | 6 Davis Road, Wetherill Park NSW |
| Monitoring Frequency: | Bi-Annual |
| Link to NSW EPA Register: | Click Here |

| Published Date | Obtained Date | Sampled Date | Parameter | Assessment Criteria | Unit of Measure | Discharge Point |
|----------------|---------------|--------------|---|---------------------|---------------------|-------------------------|
| | | | | | | EPA Point 1 - TOH F-490 |
| 18/07/2022 | 16/07/2022 | 30/06/2022 | Actual stack flow rate | | m ³ /min | 190.4 |
| | | | Average Stack Temperature | | Degrees Celsius | 239.4 |
| | | | Actual Stack Gas Velocity | | m/s | 11.224 |
| | | | Moisture | | % | 11.106 |
| | | | Dry Gas Molecular Weight | | kg/Nm ³ | 1.32 |
| | | | Wet Gas Molecular Weight | | g/g.mole | 28.222 |
| | | | Absolute Stack pressure | | mb | 1010 |
| | | | Hydrogen Sulfide @ 3% | 5 | mg/Nm ³ | <0.85 |
| | | | Odour | | ou | 2.533 |
| | | | Oxygen | | % | 8.53 |
| | | | Nitrogen Oxides @ 3% O ₂ | 350 | mg/Nm ³ | 199 |
| | | | Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO ₃) @ 11% O ₂ | 100 | mg/Nm ³ | 9.25 |
| | | | Total Solid Particulates (TSP) @ 3% O ₂ | 50 | mg/Nm ³ | 5.66 |
| | | | Volatile Organic Compounds (expressed as n-propane) @ 3% O ₂ | 40 | mg/Nm ³ | <0.62 |

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|---|---------------|--------------------|---|---------------------|---------------------|-------------------------|
| | | | | | | EPA Point 1 - TOH F-490 |
| 9/12/2021 | 8/12/2021 | 25/11/2021 | Actual stack flow rate | | m ³ /min | 190.4 |
| | | | Average Stack Temperature | | Degrees Celsius | 246 |
| | | | Velocity | | m/s | 11.222 |
| | | | Moisture | | % | 12.378 |
| | | | Dry gas density | | kg/Nm ³ | 1.32 |
| | | | Molecular weight of stack gases (Wet) | | g/g.mole | 28.29 |
| | | | Absolute Stack pressure | | mb | 1009 |
| | | | Hydrogen Sulfide | 5 | mg/Nm ³ | <0.501 |
| | | | Odour | | ou | 2.142 |
| | | | Oxygen | | % | 8.568 |
| | | | Nitrogen Oxides @ 7% O ₂ | | mg/Nm ³ | 190.5 |
| | | | Nitrogen Oxides @ 3% O ₂ | 350 | mg/Nm ³ | 191 |
| | | | Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO ₃) @ Stack O ₂ | | mg/Nm ³ | 6.97 |
| | | | Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO ₃) @ 11% O ₂ | 100 | mg/Nm ³ | 5.71 |
| | | | Total Solid Particulates (TSP) @ Stack O ₂ | | mg/Nm ³ | 17.932 |
| Total Solid Particulates (TSP) @ 3% O ₂ | 50 | mg/Nm ³ | 26.6 | | | |
| Volatile Organic Compounds (expressed as n-propane) @ 3% O ₂ | 40 | mg/Nm ³ | <0.8111 | | | |

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|---|---------------|--------------------|---|---------------------|---------------------|-------------------------|
| | | | | | | EPA Point 1 - TOH F-490 |
| 6/08/2021 | 5/08/2021 | 17/07/2021 | Actual stack flow rate | | m ³ /min | 150.588 |
| | | | Temperature | | Degrees Celsius | 264.05 |
| | | | Velocity | | m/s | 8.876 |
| | | | Moisture | | % | 11.82 |
| | | | Dry gas density | | kg/Nm ³ | 1.32 |
| | | | Molecular weight of stack gases (Wet) | | g/g.mole | 28.176 |
| | | | Absolute Stack pressure | | mb | 1012.6 |
| | | | Hydrogen Sulfide | 5 | mg/Nm ³ | <0.501 |
| | | | Odour | | ou | 2.016 |
| | | | Oxygen | | % | 7.508 |
| | | | Nitrogen Oxides @ 7% O ₂ | | mg/Nm ³ | 184 |
| | | | Nitrogen Oxides @ 3% O ₂ | 350 | mg/Nm ³ | 184 |
| | | | Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO ₃) @ Stack O ₂ | | mg/Nm ³ | 10.695 |
| | | | Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO ₃) @ 11% O ₂ | 100 | mg/Nm ³ | 7.9 |
| | | | Total Solid Particulates (TSP) @ Stack O ₂ | | mg/Nm ³ | 5.062 |
| Total Solid Particulates (TSP) @ 3% O ₂ | 50 | mg/Nm ³ | 6.76 | | | |
| Volatile Organic Compounds (expressed as n-propane) @ 3% O ₂ | 40 | mg/Nm ³ | <2.03 | | | |

| Published Date | Obtained Date | Sampled Date | Parameter | Assessment Criteria | Unit of Measure | Discharge Point |
|--|---------------|-------------------|---|---------------------|---------------------|-------------------------|
| | | | | | | EPA Point 1 - TOH F-490 |
| 30/11/2020 | 27/11/2020 | 29/10/2020 | Normal stack gas flow rate | | m ³ /min | 65 |
| | | | Temperature | | Degrees Celsius | 298 |
| | | | Velocity | | m/s | 9.1 |
| | | | Moisture | | % | 11 |
| | | | Dry gas density | | kg/m ³ | 1.32 |
| | | | Molecular weight of stack gases | | g/g.mole | 29.6 |
| | | | Stack pressure | | Kpa | 101.3 |
| | | | Hydrogen Sulfide | 5 | mg/m ³ | <0.4 |
| | | | Odour | | ou | 3500 |
| | | | Oxygen | | % | 7.5 |
| | | | Nitrogen Oxides @ stack O ₂ | | mg/m ³ | 105 |
| | | | Nitrogen Oxides @ 3% O ₂ | 350 | mg/m ³ | 140 |
| | | | Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO ₃) @ Stack O ₂ | | mg/m ³ | 13.6 |
| | | | Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO ₃) @ 11% O ₂ | 100 | mg/m ³ | 10.3 |
| | | | Total Solid Particulates (TSP) @ Stack O ₂ | | mg/m ³ | 22.6 |
| Total Solid Particulates (TSP) @ 3% O ₂ | 50 | mg/m ³ | 30.9 | | | |
| Volatile Organic Compounds (expressed as n-propane) @ stack O ₂ | | mg/m ³ | <4.4 | | | |
| Volatile Organic Compounds (expressed as n-propane) @ 3% O ₂ | 40 | mg/m ³ | <6 | | | |

| Published Date | Obtained Date | Sampled Date | Parameter | Assessment Criteria | Unit of Measure | Discharge Point |
|---|---------------|-------------------|--|---------------------|---------------------|-------------------------|
| | | | | | | EPA Point 1 - TOH F-490 |
| | | | | | | Average Result |
| 22/07/2020 | 10/07/2020 | 10/06/2020 | Normal stack gas flow rate | | m ³ /min | 67 |
| | | | Temperature | | Degrees Celsius | 321 |
| | | | Velocity | | m/s | 9.8 |
| | | | Moisture | | % | 13 |
| | | | Dry gas density | | kg/m ³ | 1.32 |
| | | | Molecular weight of stack gases | | g/g.mole | 29.7 |
| | | | Stack pressure | | Kpa | 102.9 |
| | | | Hydrogen Sulfide | 5 | mg/m ³ | <0.3 |
| | | | Odour | | ou | 1400 |
| | | | Oxygen | | % | 6.3 |
| | | | Nitrogen Oxides @ stack O2 | | mg/m ³ | 84 |
| | | | Nitrogen Oxides @ 3% O2 | 350 | mg/m ³ | 103 |
| | | | Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO3) @ Stack O2 | | mg/m ³ | 0.6 |
| | | | Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO3) @ 11% O2 | 100 | mg/m ³ | 31.8 |
| | | | Total Solid Particulates (TSP) @ Stack O2 | | mg/m ³ | 31.8 |
| | | | Total Solid Particulates (TSP) @ 3% O2 | 50 | mg/m ³ | 39 |
| | | | Volatile Organic Compounds (expressed as n-propane) @ stack O2 | | mg/m ³ | <3.9 |
| Volatile Organic Compounds (expressed as n-propane) @ 3% O2 | 40 | mg/m ³ | <4.8 | | | |

| Obtained Date | Sampled Date | Parameter | Assessment Criteria | Unit of Measure | Discharge Point |
|---|--------------|--|---------------------|---------------------|-------------------------|
| | | | | | EPA Point 1 - TOH F-490 |
| | | | | | Average Result |
| 30/01/2020 | 17/12/2019 | Normal stack gas flow rate | | m ³ /min | 60 |
| | | Temperature | | Degrees Celsius | 263 |
| | | Velocity | | m/s | 7.8 |
| | | Moisture | | % | 11 |
| | | Dry gas density | | kg/m ³ | 1.32 |
| | | Molecular weight of stack gases | | g/g.mole | 29.6 |
| | | Stack pressure | | Kpa | 102 |
| | | Hydrogen Sulfide | 5 | mg/m ³ | <0.5 |
| | | Odour | | ou | 533 |
| | | Oxygen | | % | 8 |
| | | Nitrogen Oxides @ stack O2 | | mg/m ³ | 114 |
| | | Nitrogen Oxides @ 3% O2 | 350 | mg/m ³ | 158 |
| | | Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO3) @ Stack O2 | | mg/m ³ | 16 |
| | | Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO3) @ 11% O2 | 100 | mg/m ³ | 12 |
| | | Total Solid Particulates (TSP) @ Stack O2 | | mg/m ³ | 30 |
| | | Total Solid Particulates (TSP) @ 3% O2 | 50 | mg/m ³ | 42 |
| | | Volatile Organic Compounds (expressed as n-propane) @ stack O2 | | mg/m ³ | <4.3 |
| Volatile Organic Compounds (expressed as n-propane) @ 3% O2 | 40 | mg/m ³ | <5.9 | | |

| Obtained Date | Sampled Date | Parameter | Assessment Criteria | Unit of Measure | Discharge Point |
|---|--------------|--|---------------------|---------------------|-------------------------|
| | | | | | EPA Point 1 - TOH F-490 |
| | | | | | Average Result |
| 30/08/2019 | 14/08/2019 | Normal stack gas flow rate | | m ³ /min | 64 |
| | | Temperature | | Degrees Celsius | 248 |
| | | Velocity | | m/s | 7.7 |
| | | Moisture | | % | 8 |
| | | Dry gas density | | kg/m ³ | 1.32 |
| | | Molecular weight of stack gases | | g/g.mole | 29.6 |
| | | Stack pressure | | Kpa | 102.9 |
| | | Hydrogen Sulfide | 5 | mg/m ³ | <0.5 |
| | | Odour | | ou | 580 |
| | | Oxygen | | % | 7.6 |
| | | Nitrogen Oxides @ stack O2 | | mg/m ³ | 119 |
| | | Nitrogen Oxides @ 3% O2 | 350 | mg/m ³ | 160 |
| | | Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO3) @ Stack O2 | | mg/m ³ | 21 |
| | | Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO3) @ 11% O2 | 100 | mg/m ³ | 16 |
| | | Total Solid Particulates (TSP) @ Stack O2 | | mg/m ³ | 31 |
| | | Total Solid Particulates (TSP) @ 3% O2 | 50 | mg/m ³ | 42 |
| | | Volatile Organic Compounds (expressed as n-propane) @ stack O2 | | mg/m ³ | <4.2 |
| Volatile Organic Compounds (expressed as n-propane) @ 3% O2 | 40 | mg/m ³ | <5.7 | | |

| Obtained Date | Sampled Date | Parameter | Assessment Criteria | Unit of Measure | Discharge Point | |
|--|---|---|---------------------|---------------------|-------------------------|-------|
| | | | | | EPA Point 1 - TOH F-490 | |
| | | | | | Run 1 | Run 2 |
| 30/05/2019 | 17/05/2019 Note, this is an additional monitoring event in response to the Feb 2019 sampling | Normal stack gas flow rate | | m ³ /min | 58 | 57 |
| | | Temperature | | Degrees Celsius | 275 | 275 |
| | | Velocity | | m/s | 7.4 | 7.5 |
| | | Moisture | | % | 9 | 11 |
| | | Dry gas density | | kg/m ³ | 1.32 | 1.32 |
| | | Molecular weight of stack gases | | g/g.mole | 29.5 | 29.6 |
| | | Stack pressure | | Kpa | 102.9 | 102.9 |
| | | Hydrogen Sulfide | 5 | mg/m ³ | | |
| | | Odour | | ou | | |
| | | Oxygen | | % | 8.9 | 7.7 |
| | | Nitrogen Oxides @ stack O ₂ | | mg/m ³ | | |
| | | Nitrogen Oxides @ 3% O ₂ | 350 | mg/m ³ | | |
| | | Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO ₃) @ Stack O ₂ | | mg/m ³ | | |
| | | Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO ₃) @ 11% O ₂ | 100 | mg/m ³ | | |
| | | Total Solid Particulates (TSP) @ Stack O ₂ | | mg/m ³ | 30.1 | 33.8 |
| | | Total Solid Particulates (TSP) @ 3% O ₂ | 50 | mg/m ³ | 45.1 | 45.8 |
| Volatile Organic Compounds (expressed as n-propane) @ stack O ₂ | | mg/m ³ | | | | |
| Volatile Organic Compounds (expressed as n-propane) @ 3% O ₂ | 40 | mg/m ³ | | | | |

| Obtained Date | Sampled Date | Parameter | Assessment Criteria | Unit of Measure | Discharge Point | |
|--|--------------|---|---------------------|---------------------|---|--|
| | | | | | EPA Point 1 - TOH F-490 | |
| | | | | | Average Result | |
| 28/03/2019 | 15/02/2019 | Normal stack gas flow rate | | m ³ /min | 76 | |
| | | Temperature | | Degrees Celsius | 246 | |
| | | Velocity | | m/s | 9.3 | |
| | | Moisture | | % | 8.1 | |
| | | Dry gas density | | kg/m ³ | 1.3 | |
| | | Molecular weight of stack gases | | g/g.mole | 29.5 | |
| | | Stack pressure | | Kpa | 101.1 | |
| | | Hydrogen Sulfide | 5 | mg/m ³ | <0.5 | |
| | | Odour | | ou | 1000 | |
| | | Oxygen | | % | 10 | |
| | | Nitrogen Oxides @ stack O ₂ | | mg/m ³ | 176 | |
| | | Nitrogen Oxides @ 3% O ₂ | 350 | mg/m ³ | 288 | |
| | | Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO ₃) @ Stack O ₂ | | mg/m ³ | 17.8 | |
| | | Sulfuric Acid Mist / Sulfur Trioxide (expressed as SO ₃) @ 11% O ₂ | 100 | mg/m ³ | 16.1 | |
| | | Total Solid Particulates (TSP) @ Stack O ₂ | | mg/m ³ | 40.8 | |
| | | Total Solid Particulates (TSP) @ 3% O ₂ | 50 | mg/m ³ | 66.7 | |
| Volatile Organic Compounds (expressed as n-propane) @ stack O ₂ | | mg/m ³ | <4.2 | | | |
| Volatile Organic Compounds (expressed as n-propane) @ 3% O ₂ | 40 | mg/m ³ | <6.8 | | | |
| | | | | | Explanation | |
| | | | | | Concentration of solid particles were within the limit under stack conditions when not corrected for O ₂ (40.8ppm), but exceeded when the 3% O ₂ correction factor was applied (66.7ppm). Cleanaway understands that the result recorded on 15 February is anomalous and has requested an additional confirmatory stack testing event to be undertaken (see May 2019 results above which reflect compliance). | |

| EPA Data Point Reference | EPA Data Point Name | EPA Data Point Description |
|--------------------------|--|--------------------------------|
| 1 | Air Emissions monitoring and discharge | Thermal Oil Heater (TOH- F490) |