

Annual Environmental Report

2020



Doon

D0309-01

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7.1 AMBIENT MONITORING SUMMARY

1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2020 AER

This Annual Environmental Report has been prepared for D0309-01, Doon, in Limerick in accordance with the requirements of the wastewater discharge licence for the agglomeration. Specified reports where relevant are included as an appendix to the AER.

1.1 ANNUAL STATEMENT OF MEASURES

A summary of any improvements undertaken is provided where applicable.

New Ferric Dosing System Installed.

1.2 TREATMENT SUMMARY

The agglomeration is served by a wastewater treatment plant(s)

- Doon Septic Tank, St. Fintans Terrace - 2020 with a Plant Capacity PE of 1534, the treatment type is 3P - Tertiary P removal
- Doon WWTP - 2020 with a Plant Capacity PE of 1534, the treatment type is 3P - Tertiary P removal

1.3 ELV OVERVIEW

The overall compliance of the final effluent with the Emission Limit Values (ELVs) is shown below. More detailed information on the below ELV's can be found in Section 2.

| Discharge Point Reference | Treatment Plant | Discharge Type | Compliance Status | Parameters failing if relevant |
|---------------------------|----------------------------------------------|----------------|-------------------|--------------------------------|
| TPEFF1900D0309SW001 | Doon Septic Tank, St. Fintans Terrace - 2020 | N/A | Decommissioned | N/A |

| Discharge Point Reference | Treatment Plant | Discharge Type | Compliance Status | Parameters failing if relevant |
|---------------------------|------------------|----------------|-------------------|--------------------------------|
| TPEFF1900D0309SW001 | Doon WWTP - 2020 | Treated | Non-Compliant | Ammonia-Total (as N) mg/l |

1.4 LICENCE SPECIFIC REPORTING INCLUDED IN AER

| Assessment / Report | Included in AER |
|------------------------------------------------------------|-----------------|
| There are no Licence Specific Reports included in the AER. | |

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

2.1 DOON SEPTIC TANK, ST. FINTANS TERRACE - 2020 - TREATED DISCHARGE

Septic tank has been decommissioned.

2.2 DOON WWTP - 2020 - TREATED DISCHARGE

2.2.1 INFLUENT MONITORING SUMMARY - DOON WWTP - 2020

A summary of influent monitoring for the treatment plant is presented below. This monitoring is primarily undertaken in order to determine the overall efficiency of the plant in removing pollutants from the raw wastewater.

| Parameters | Number of Samples | Annual Max | Annual Mean |
|----------------------------------------------|-------------------|------------|-------------|
| COD-Cr mg/l | 6 | 458 | 140.14 |
| BOD, 5 days with Inhibition (Carbonaceo mg/l | 6 | 168 | 46.74 |
| Total Phosphorus (as P) mg/l | 6 | 6.1 | 1.88 |
| Suspended Solids mg/l | 6 | 250 | 71.15 |
| Hydraulic Capacity | N/A | 1623 | 627 |

If other inputs in the form of sludge / leachate are added to the WWTP then these are included in Section 2.1.5 if applicable.

Significance of Results:

The annual mean hydraulic loading is less than the peak Treatment Plant Capacity. The annual maximum hydraulic loading is greater than the peak Treatment Plant Capacity. Further details on the plant capacity and efficiency can be found under the sectional 'Operational Performance Summary'.

2.2.2 EFFLUENT MONITORING SUMMARY - TPEFF1900D0309SW001

| Parameter | WWDL ELV (Schedule A) | ELV with Condition 2 Interpretation included Note 1 | Interim % reduction from influent concentration | Number of sample results | Number of exceedances | Number of with Condition 2 Interpretation included | Annual Mean | Overall Compliance (Pass/Fail) |
|--------------------------------------------------------|-----------------------|-----------------------------------------------------|-------------------------------------------------|--------------------------|-----------------------|----------------------------------------------------|-------------|--------------------------------|
| COD-Cr mg/l | 125 | 250 | N/A | 6 | N/A | N/A | 22.98 | Pass |
| Suspended Solids mg/l | 20 | 50 | N/A | 6 | N/A | N/A | 5.31 | Pass |
| BOD, 5 days with Inhibition (Carbonaceous) mg/l | 10 | 20 | N/A | 6 | N/A | N/A | 3.55 | Pass |
| pH pH units | 9 | 9 | N/A | 6 | N/A | N/A | 8.28 | Pass |
| Ammonia-Total (as N) mg/l | 3 | 3.6 | N/A | 6 | 4 | 3 | 2.94 | Fail |
| Total Phosphorus (as P) mg/l | 0.3 | 0.36 | N/A | 6 | 1 | N/A | 0.17 | Pass |
| ortho-Phosphate (as P) - unspecified mg/l | 0.1 | 0.2 | N/A | 6 | 1 | N/A | 0.03 | Pass |

| Parameter | WWDL ELV (Schedule A) | ELV with Condition 2 Interpretation included Note 1 | Interim % reduction from influent concentration | Number of sample results | Number of exceedances | Number of with Condition 2 Interpretation included | Annual Mean | Overall Compliance (Pass/Fail) |
|--------------------------------------------|-----------------------|-----------------------------------------------------|-------------------------------------------------|--------------------------|-----------------------|----------------------------------------------------|-------------|--------------------------------|
| Total Oxidised Nitrogen (as N) mg/l | N/A | N/A | N/A | 1 | N/A | N/A | 14.2 | |
| Nitrate (as N) mg/l | N/A | N/A | N/A | 6 | N/A | N/A | 4.91 | |

Notes:

1 – This represents the Emission Limit Values after the Interpretation provided for under Condition 2 of the licence is applied

Cause of Exceedance(s):

Mechanical Breakdowns.

Significance of Results:

Ammonia fails due to mechanical breakdowns. Actuator Valves not working correctly.

2.2.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF1900D0309SW001

A summary of monitoring from ambient monitoring points associated with the wastewater discharge is provided in the sections below. For discharges to rivers upstream (U/S) and downstream (D/S) location data is provided. For other ambient points in lakes, coastal or transitional waters, monitoring data from the most appropriate monitoring station is selected.

The table below provides details of ambient monitoring locations and details of any designations as sensitive areas.

| Ambient Monitoring Point from WWDL (or as agreed with EPA) | Irish Grid Reference | River Station Code | Bathing Water | Drinking Water | FWPM | Shellfish | WFD Status |
|------------------------------------------------------------|----------------------|--------------------|---------------|----------------|------|-----------|------------|
| Upstream | 182925, 150236 | RS25D030460 | No | No | No | No | Good |
| Downstream | 182856, 150173 | RS25D030470 | No | No | No | No | Good |

The table below provides a summary of monitoring results for designated ambient monitoring points. The upstream and downstream annual mean values are shown (mg/l), and the difference between both monitoring stations is given as a percentage of the Environmental Quality Standard (EQS) where relevant.

| Parameter Name | Upstream Monitoring Point Location | Upstream Monitoring Point Annual Mean | Downstream Monitoring Point Location | Downstream Monitoring Point Annual Mean | EQS | % of EQS |
|--------------------------------------------------|------------------------------------|---------------------------------------|--------------------------------------|-----------------------------------------|-------|----------|
| BOD - 5 days (Total) mg/l | RS25D030460 | 2.023 | RS25D030470 | 3.17 | 1.5 | 76.4 |
| Ammonia-Total (as N) mg/l | RS25D030460 | 0.039 | RS25D030470 | 0.034 | 0.065 | -7.7 |
| ortho-Phosphate (as P) - unspecified mg/l | RS25D030460 | 0.035 | RS25D030470 | 0.038 | 0.035 | 8.1 |
| Dissolved Oxygen % O₂ | RS25D030460 | 96.517 | RS25D030470 | 96.933 | | |
| Temperature °C | RS25D030460 | 10.883 | RS25D030470 | 11.183 | | |
| pH pH units | RS25D030460 | 7.75 | RS25D030470 | 7.75 | | |

Significance of Results:

The WWTP discharge was not compliant with the ELV's set in the wastewater discharge licence.

The ambient monitoring results does not meet the required EQS. The EQS relates to the Oxygenation and Nutrient Conditions set out in the Surface Water Regulations 2009.

Based on ambient monitoring results a deterioration in BOD, concentrations downstream of the effluent discharge is noted.

The discharge from the wastewater treatment plant does have an observable negative impact on the Water Framework Directive status.

2.2.4 OPERATIONAL PERFORMANCE SUMMARY - DOON WWTP - 2020

2.2.4.1 Treatment Efficiency Report - Doon WWTP - 2020

Treatment efficiency is based on the removal of key pollutants from the influent wastewater by the treatment plant. In essence the calculation is based on the balance of load coming into the plant versus the load leaving the plant. The efficiency is presented as a percentage removal rate.

A summary presentation of the efficiency of the treatment process including information for all the parameters specified in the licence is included below:

| Parameter | Influent mass loading (kg/year) | Effluent mass emission (kg/year) | Efficiency (% reduction of influent load) |
|-----------|---------------------------------|----------------------------------|-------------------------------------------|
| COD | 23717 | 4114 | 83 |
| cBOD | 7911 | 636 | 92 |
| TP | 318 | 30 | 91 |
| SS | 12042 | 951 | 92 |
| TN | N/A | N/A | N/A |

Note: The above data is based on sample results for the number of dates reported

2.2.4.2 Treatment Capacity Report Summary - Doon WWTP - 2020

Treatment capacity is an assessment of the hydraulic (flow) and organic (the amount of pollutants) load a treatment plant is designed to treat versus the current loading of that plant.

| Doon WWTP - 2020 | |
|----------------------------------------------------------------|------|
| Peak Hydraulic Capacity (m ³ /day) - As Constructed | 1032 |

| Doon WWTP - 2020 | |
|------------------------------------------------------------------------|------|
| DWF to the Treatment Plant (m ³ /day) | 345 |
| Current Hydraulic Loading - annual max (m ³ /day) | 1623 |
| Average Hydraulic loading to the Treatment Plant (m ³ /day) | 627 |
| Organic Capacity (PE) - As Constructed | 1534 |
| Organic Capacity (PE) - Collected Load (peak week) ^{Note1} | 700 |
| Organic Capacity (PE) - Remaining | 834 |
| Will the capacity be exceeded in the next three years? (Yes/No) | No |

Nominal design capacities can be based on conservative design principles. In some cases assessment of existing plants has shown organic capacities significantly higher than the nominal design capacity. Accordingly plants that appear to be overloaded when comparing a collected peak load with the nominal design capacity can be fully compliant due to the safety factors in the original design.

2.2.5 SLUDGE / OTHER INPUTS - DOON WWTP - 2020

'Other inputs' to the waste water treatment plant are summarised in table below

| Input type | Quantity | Unit | P.E. | % of load to WWTP | Included in Influent Monitoring (Y/N)? | Is there a leachate/sludge acceptance procedure for the WWTP? | Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N) |
|--------------------------------------------------------------------------------------|----------|------|------|-------------------|----------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------|
| There is no Sludge and Other Input data for the Treatment Plant included in the AER. | | | | | | | |

3 COMPLAINTS AND INCIDENTS

3.1 COMPLAINTS SUMMARY

A summary of complaints of an environmental nature is included below.

| Number of Complaints | Nature of Complaint | Number Open Complaints | Number Closed Complaints |
|----------------------------------------------------------|---------------------|------------------------|--------------------------|
| There were no relevant environmental complaints in 2020. | | | |

3.2 REPORTED INCIDENTS SUMMARY

Environmental incidents that arise in an agglomeration are reported on an on-going basis in accordance with our waste water discharge licences. Where an incident occurs and it is reportable under the licence, it is reported to the Environmental Protection Agency through their Environmental Data Exchange Network, or in some instances by telephone. Some incidents which arise in the agglomeration are recorded by Irish Water but may not be reportable under our licence for example where the incident does not have an impact on environmental performance.

A summary of reported incidents is included below.

3.2.1 SUMMARY OF INCIDENTS

| Incident Type | Cause | No. of incident occurrences | Recurring (Y/N) | Closed (Y/N) |
|-----------------------------|--------------------------------------|-----------------------------|-----------------|--------------|
| Abatement Equipment offline | Plant or equipment breakdown at WWTP | 1 | No | Yes |
| Abatement Equipment offline | Plant or equipment breakdown at WWTP | 1 | Yes | Yes |
| Breach of ELV | Plant or equipment breakdown at WWTP | 1 | Yes | No |

| Incident Type | Cause | No. of incident occurrences | Recurring (Y/N) | Closed (Y/N) |
|-----------------------------|--------------------------------------|-----------------------------|-----------------|--------------|
| Abatement Equipment offline | Plant or equipment breakdown at WWTP | 1 | No | Yes |

3.2.2 SUMMARY OF OVERALL INCIDENTS

| Question | Answer |
|----------------------------------------------------------------|--------|
| Number of Incidents in 2020 | 4 |
| Number of Incidents reported to the EPA via EDEN in 2020 | 4 |
| Explanation of any discrepancies between the two numbers above | N/A |

4 INFRASTRUCTURAL ASSESSMENTS AND PROGRAMME OF IMPROVEMENTS

4.1 STORM WATER OVERFLOW IDENTIFICATION AND INSPECTION REPORT

A summary of the operation of the storm water overflows and their significance where known is included below:

4.1.1 SWO IDENTIFICATION

| WWDL Name / Code for Storm Water Overflow | Irish Grid Ref. | Included in Schedule A4 of the WWDL | Significance of the overflow(High / Medium / Low) | Assessed against DoEHLG Criteria | No. of times activated in 2020 (No. of events) | Total volume discharged in 2020 (m3) | Monitoring Status |
|-------------------------------------------|-----------------|-------------------------------------|---------------------------------------------------|----------------------------------|------------------------------------------------|--------------------------------------|-------------------|
| SW001 | 182913, 150240 | Yes | Low | Meeting | Unknown | Unknown | Unknown |

| SWO Summary | |
|-------------------------------------------------------------------------------------------------------|---------|
| How much sewage was discharged via SWOs in the agglomeration in the year (m3)? | Unknown |
| Is each SWO identified as not meeting DoEHLG Guidance included in the Programme of Improvements? | No |
| The SWO Assessment included the requirements of relevant of WWDL schedules? | Yes |
| Have the EPA been advised of any additional SWOs / changes to Schedule C3 and A4 under Condition 1.7? | No |

4.2 REPORT ON PROGRESS MADE AND PROPOSALS BEING DEVELOPED TO MEET THE IMPROVEMENT PROGRAMME REQUIREMENTS.

4.2.1 SPECIFIED IMPROVEMENT PROGRAMME SUMMARY

A wastewater discharge licence may require a number of reports on specific subject areas to be prepared for the agglomeration in question. These reports are submitted to the EPA as part of the Annual Environmental Report. This section provides list of the various reports required for this agglomeration and a brief summary of their recommendations.

| Specified Improvement Programmes (under Schedule A and C of WWDL) | Description | Licence Schedule | Licence Completion Date | Date Expired? (N/NA/Y) | Status of Works | Timeframe for Completing the Work | Comments |
|------------------------------------------------------------------------------|-------------|------------------|-------------------------|------------------------|-----------------|-----------------------------------|----------|
| There are no Specified Improvement Programmes for this Agglomeration. | | | | | | | |

A summary of the status of any improvements identified by under Condition 5.2 is included below.

4.2.2 IMPROVEMENT PROGRAMME SUMMARY

| Improvement Identifier | Improvement Description / or any Operational Improvements | Improvement Source | Expected Completion Date | Comments |
|--------------------------------------------------------------------|-----------------------------------------------------------|--------------------|--------------------------|----------|
| There are no Improvements Programme for this Agglomeration. | | | | |

4.2.3 SEWER INTEGRITY RISK ASSESSMENT

The utilisation of multiple capital maintenance programmes and the outputs of the workshops with the Local Authority Operations Staff held under the programme can be used to satisfy the requirements of Condition 5 regarding network integrity. Improvement works identified by way of these programmes and workshops will be included in the Improvements Summary Table.

5 LICENCE SPECIFIC REPORTS

A wastewater discharge licence may require a number of reports on specific subject areas to be prepared for the agglomeration in question. These reports are submitted to the EPA as part of the Annual Environmental Report. This section provides list of the various reports required for this agglomeration and a brief summary of their recommendations.

5.a Licence Specific Reports Summary Table

| Licence Specific Report | Required by licence | Year included in AER | Included in this AER | Reference to relevant section of AER |
|--------------------------------|---------------------|----------------------|----------------------|--------------------------------------|
| Priority Substances Assessment | Yes | 2016 | No | |

5.1 PRIORITY SUBSTANCES ASSESSMENT

The Priority Substances Assessment Report has been included in the AER 2016

6 CERTIFICATION AND SIGN OFF

6.1 SUMMARY OF AER CONTENTS

| Parameter | Answer |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Does the AER include an Executive Summary? | Yes |
| Does the AER include an assessment of the performance of the Waste Water Works (i.e. have the results of assessments been interpreted against WWDL requirements and or Environmental Quality Standards)? | Yes |
| Is there a need to advise the EPA for consideration of a Technical Amendment / Review of the licence? | No |
| List reason e.g. additional SWO identified | N/A |
| Is there a need to request/advise the EPA of any modification to the existing WWDL with respect to condition 4 changes to monitoring location, frequency etc | No |
| List reason e.g. changes to monitoring requirements | N/A |
| Have these processes commenced? | N/A |
| Are all outstanding reports and assessments from previous AERs included as an appendix to this AER | Yes |

I certify that the information given in this Annual Environmental Report is truthful, accurate and complete:

Signed: Date: 11/05/2021

This AER has been produced by Irish Water's Environmental Information System (EIMS) and has been electronically signed off in that system for and on behalf of ,

Katherine Walshe

Acting Head of Environmental Regulation.

7 APPENDIX

Appendix

Appendix 7.1 - Ambient monitoring summary

Doon Upstream

| Location | | | | | | Parameter | | | | | | |
|----------|------------------------------------|-----------------|------------------|------------------|--------------------|---------------|----------|--------------------------|----------------------------|-----------------------|-------------|------|
| Station | Station Reference | Station Easting | Station Northing | Sample Reference | Sample Date | Ammonia NH3-N | pH | Biological Oxygen Demand | Dissolved Oxygen % Saturat | Ortho-Phosphate PO4-P | Temperature | |
| | | | | | | mg/l | pH units | mg/l | % O2 | mg/l | Degrees C | |
| WDLE 15 | u/s Trib of Dead River Doon Stream | S RS25D030460 | 182926 | 150237 | 20370144 | 14-Jan-2020 | 0.09 | 7.8 | 2.14 | 101 | 0.055 | 6.4 |
| WDLE 15 | u/s Trib of Dead River Doon Stream | S RS25D030460 | 182926 | 150237 | 20370960 | 10-Mar-2020 | 0.02 | 7.7 | 1 | 100 | 0.066 | 9.1 |
| WDLE 15 | u/s Trib of Dead River Doon Stream | S RS25D030460 | 182926 | 150237 | 20371561 | 09-Jun-2020 | 0.02 | 7.7 | 1 | 93 | 0.01 | 11.4 |
| WDLE 15 | u/s Trib of Dead River Doon Stream | S RS25D030460 | 182926 | 150237 | 20371932 | 14-Jul-2020 | 0.02 | 7.8 | 1 | 90.4 | 0.025 | 12.3 |
| WDLE 15 | u/s Trib of Dead River Doon Stream | S RS25D030460 | 182926 | 150237 | 20372492 | 08-Sep-2020 | 0.02 | 7.7 | 1 | 99.6 | 0.035 | 15.4 |
| WDLE 15 | u/s Trib of Dead River Doon Stream | S RS25D030460 | 182926 | 150237 | 20373306 | 10-Nov-2020 | 0.02 | 7.8 | 1 | 95.1 | 0.024 | 10.7 |
| | | | | EQS Std | individual value | | | 6-9 | | | | |
| | | | | EQS Std | good status mean | | ≤0.065 | n/a | ≤1.5 | | ≤0.035 | n/a |
| | | | | EQS Std | good status 95%ile | | ≤0.14 | n/a | ≤2.6 | >80, <120 | ≤0.075 | n/a |
| | | | | | mean | | 0.032 | 7.8 | 1.2 | 96.5 | 0.036 | 10.9 |
| | | | | | 95%ile | | 0.073 | 7.8 | 1.9 | 100.8 | 0.063 | 14.6 |
| | | | | | mean compliance | | yes | yes | yes | yes | No | |
| | | | | | 95%ile compliance | | yes | yes | yes | yes | -- | |

half of level of detection for statistical purposes

exceeds Surface Waters Regulations good status

Note: Individual results which exceed the good status mean are highlighted in red

Doon Downstream

| Location | | | | | | Parameter | | | | | | |
|----------|-----------------------------|-----------------|------------------|------------------|--------------------|---------------|----------|--------------------------|----------------------------|-----------------------|-------------|------|
| Station | Station Reference | Station Easting | Station Northing | Sample Reference | Sample Date | Ammonia NH3-N | pH | Biological Oxygen Demand | Dissolved Oxygen % Saturat | Ortho-Phosphate PO4-P | Temperature | |
| | | | | | | mg/l | pH units | mg/l | % O2 | mg/l | Degrees C | |
| WDLE 16 | Trib of Dead R.d/s Doon STP | RS25D030470 | 182857 | 150173 | 20370145 | 14-Jan-2020 | 0.06 | 7.7 | 3.13 | 101 | 0.067 | 6.6 |
| WDLE 16 | Trib of Dead R.d/s Doon STP | RS25D030470 | 182857 | 150173 | 20370961 | 10-Mar-2020 | 0.02 | 7.7 | 1 | 100 | 0.066 | 9.2 |
| WDLE 16 | Trib of Dead R.d/s Doon STP | RS25D030470 | 182857 | 150173 | 20371562 | 09-Jun-2020 | 0.02 | 7.8 | 1 | 93.1 | 0.012 | 11.4 |
| WDLE 16 | Trib of Dead R.d/s Doon STP | RS25D030470 | 182857 | 150173 | 20371933 | 14-Jul-2020 | 0.02 | 7.7 | 7.89 | 92.3 | 0.025 | 13.8 |
| WDLE 16 | Trib of Dead R.d/s Doon STP | RS25D030470 | 182857 | 150173 | 20372493 | 08-Sep-2020 | 0.02 | 7.8 | 1 | 100 | 0.034 | 15.4 |
| WDLE 16 | Trib of Dead R.d/s Doon STP | RS25D030470 | 182857 | 150173 | 20373307 | 10-Nov-2020 | 0.02 | 7.8 | 1 | 95.2 | 0.025 | 10.7 |
| | | | | EQS Std | individual value | | | 6-9 | | | | |
| | | | | EQS Std | good status mean | | ≤0.065 | n/a | ≤1.5 | | ≤0.035 | n/a |
| | | | | EQS Std | good status 95%ile | | ≤0.14 | n/a | ≤2.6 | >80, <120 | ≤0.075 | n/a |
| | | | | | mean | | 0.027 | 7.8 | 2.5 | 96.9 | 0.038 | 11.2 |
| | | | | | 95%ile | | 0.050 | 7.8 | 6.7 | 100.8 | 0.067 | 15.0 |
| | | | | | mean compliance | | yes | yes | No | yes | No | |
| | | | | | 95%ile compliance | | yes | yes | No | yes | yes | -- |

half of level of detection for statistical purposes

exceeds Surface Waters Regulations good status

Note: Individual results which exceed the good status mean are highlighted in red

| Ambient Monitoring Point from WWDL (or as agreed with EPA) | Irish National Grid Reference (Easting, Northing) | EPA Feature Coding Tool code | Receiving Waters Designation (Yes/No) | | | | Current WFD Status | Mean (mg/l) | | |
|------------------------------------------------------------|---------------------------------------------------|------------------------------|---------------------------------------|----------------|------|-----------|--------------------|--------------|--------------------|----------------|
| | | | Bathing Water | Drinking Water | FWPM | Shellfish | | cBOD | o-Phosphate (as P) | Ammonia (as N) |
| Upstream Monitoring Point | 182926, 150237 | RS25D030460 | | | | | Moderate | 1.200 | 0.036 | 0.032 |
| Downstream Monitoring Point | 182857, 150173 | RS25D030470 | No | No | No | No | Moderate | 2.500 | 0.038 | 0.027 |
| <i>Difference</i> | | | | | | | | <i>1.300</i> | <i>0.002</i> | <i>-0.005</i> |
| EQS | | | | | | | | 1.500 | 0.035 | 0.065 |
| % of EQS | | | | | | | | 86.667% | 5.714% | -7.692% |