

Appendix D

Impact Air Quality Monitoring Results

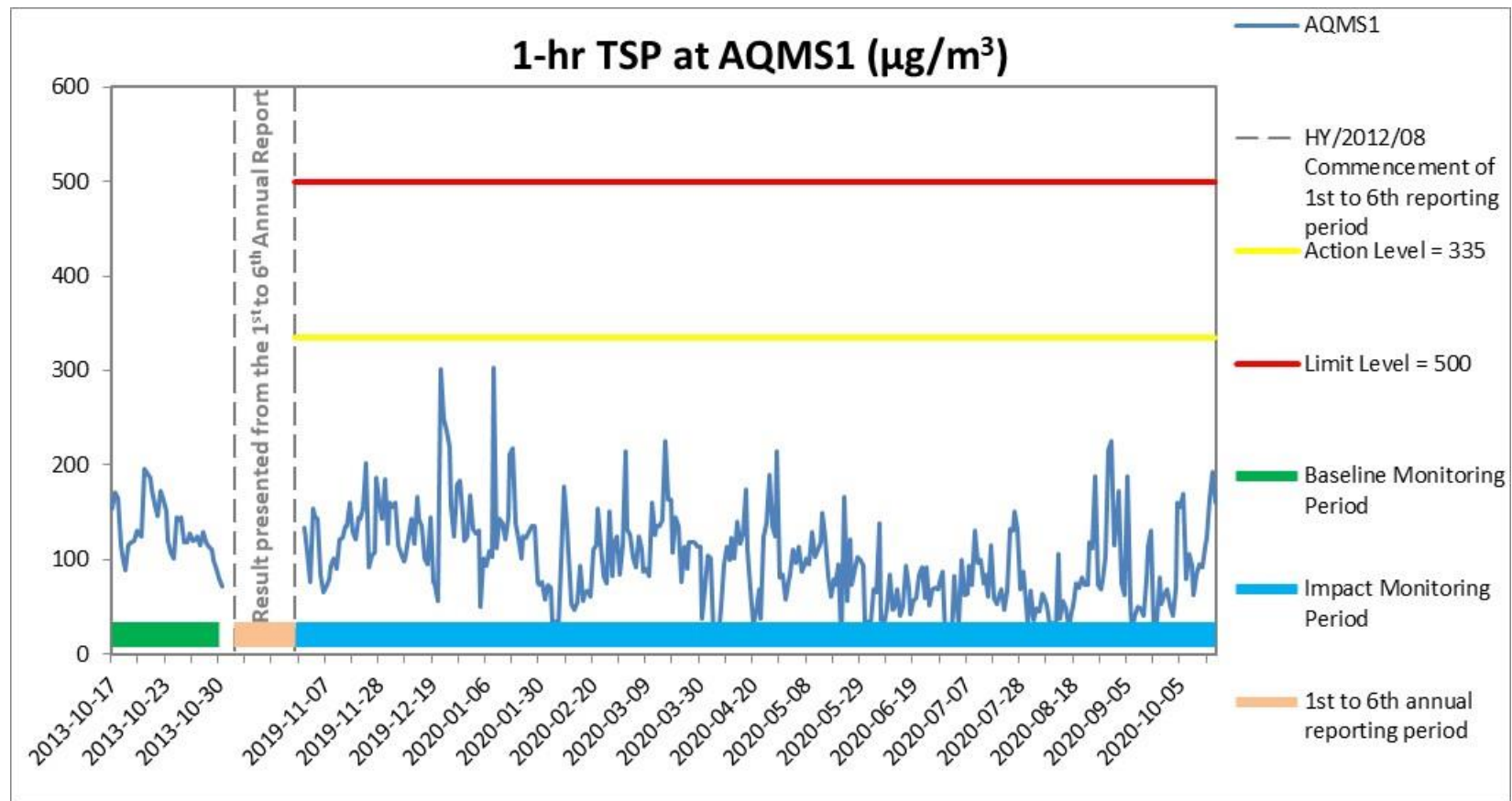


Figure D.1 Baseline & Impact Monitoring - 1-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at AQMS1 between 17 October 2013 and 31 October 2020 during Baseline & Impact Monitoring period. Weather condition within the reporting period varied between sunny to rainy. The overall monitoring results were not affected by weather conditions. Major land-based construction activities included: Construction of Thermal barrier - TBM tunnel; Construction of Walkway Corbel & Cover - TBM Tunnel; Road & Drainage works - Portion N-A, Portion S-A, Portion S-B, Portion S-C, Northern Landfall; Gantry Crane Removal - Portion N-A; C&C Tunnel RC structure - Portion S-A; Backfilling - Portion S-A & S-C; Water Treatment Facilities Dismantling - Portion S-C; Roofing System Installation - Portion S-A; Fireboard installation - Tunnel; UU installation - Portion S-A, S-B & S-C and Northern Landfall; Carpark Formation - Portion S-A, S-B & S-C and Northern Landfall; Carpark canopies installation - Portion S-A, S-B & S-C; Hard paving and footpath - Pump Sump Area at Northern Landfall; Installation of green roof system - South Ventilation Building; and Reinstatement at Box Culvert.

Ref: 0212330_Impact AQM graphs_7thAnnual_REV a.xlsx



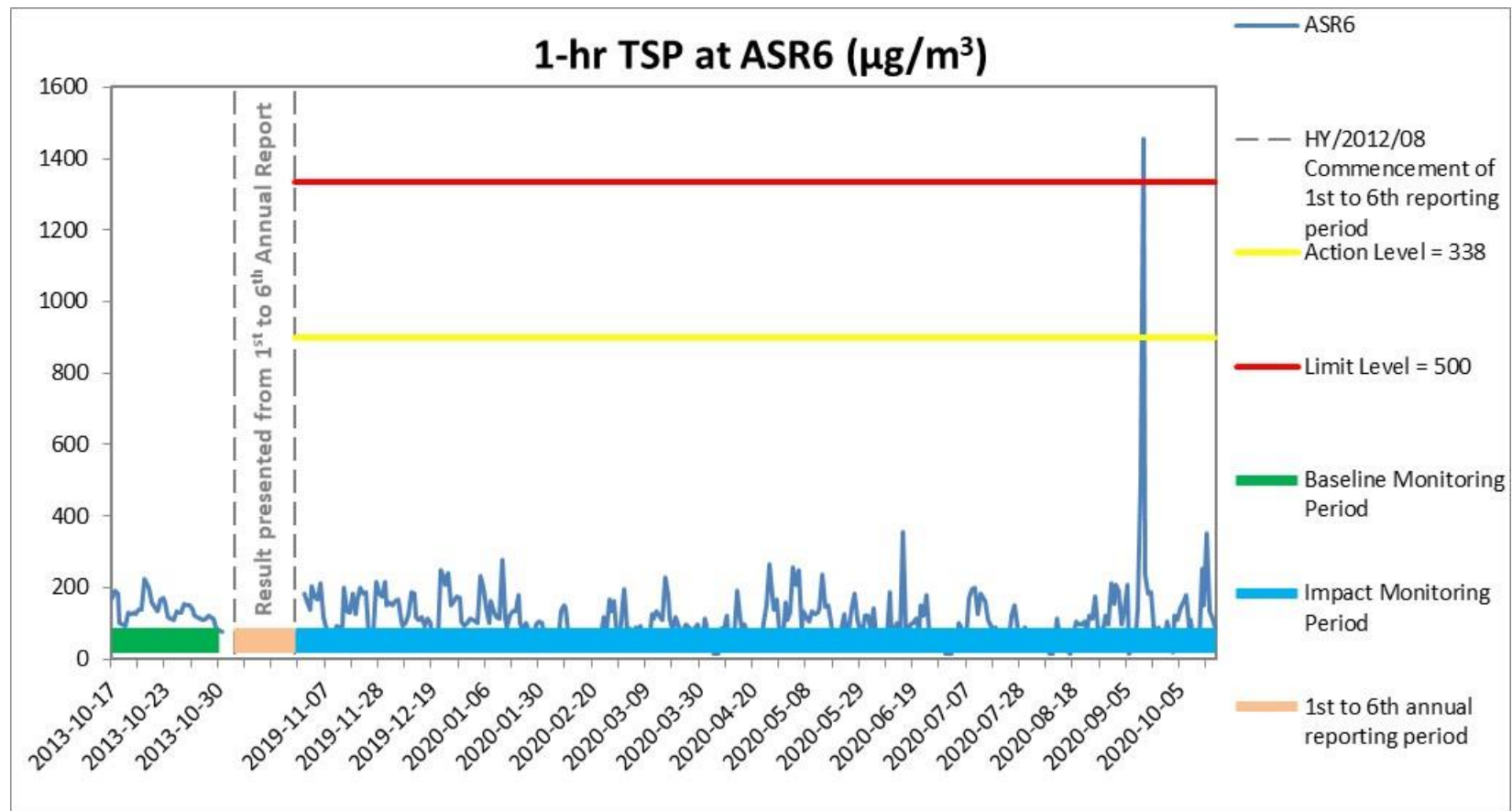


Figure D.2 Baseline & Impact Monitoring - 1-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at ASR6 between 17 October 2013 and 31 October 2020 during Baseline & Impact Monitoring period. Weather condition within the reporting period varied between sunny to rainy. The overall monitoring results were not affected by weather conditions. Major land-based construction activities included: Construction of Thermal barrier - TBM tunnel; Construction of Walkway Corbel & Cover - TBM Tunnel; Road & Drainage works - Portion N-A, Portion S-A, Portion S-B, Portion S-C, Northern Landfall; Gantry Crane Removal - Portion N-A; C&C Tunnel RC structure - Portion S-A; Backfilling - Portion S-A & S-C; Water Treatment Facilities Dismantling - Portion S-C; Roofing System Installation - Portion S-A; Fireboard installation - Tunnel; UU installation - Portion S-A, S-B & S-C and Northern Landfall; Carpark Formation - Portion S-A, S-B & S-C and Northern Landfall; Carpark canopies installation - Portion S-A, S-B & S-C; Hard paving and footpath - Pump Sump Area at Northern Landfall; Installation of green roof system - South Ventilation Building; and Reinstatement at Box Culvert.



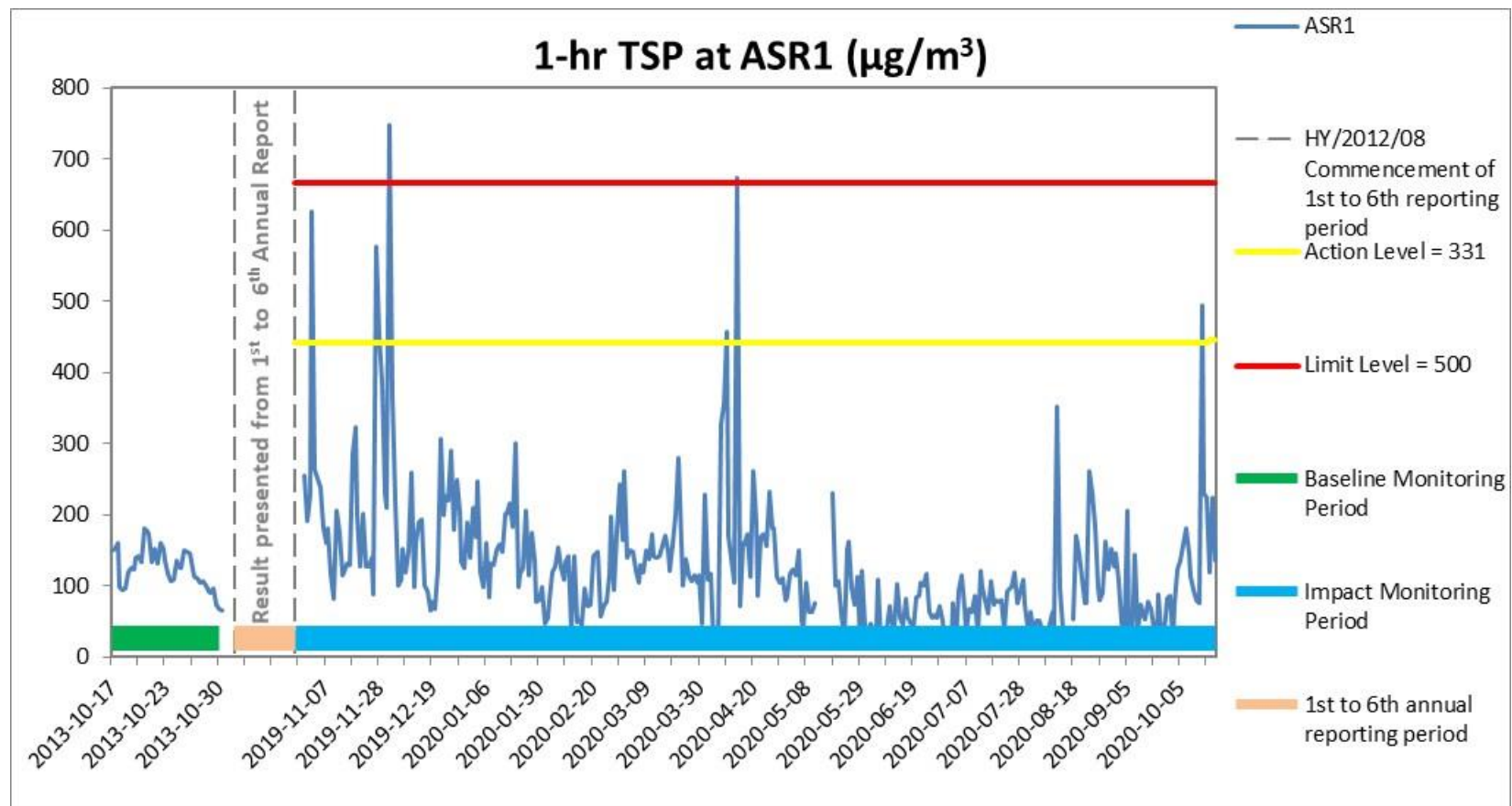


Figure D.3 Baseline & Impact Monitoring - 1-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at ASR1 between 17 October 2013 and 31 October 2020 during Baseline & Impact Monitoring period. Weather condition within the reporting period varied between sunny to rainy. The overall monitoring results were not affected by weather conditions. Major land-based construction activities included: Construction of Thermal barrier - TBM tunnel; Construction of Walkway Corbel & Cover - TBM Tunnel; Road & Drainage works - Portion N-A, Portion S-A, Portion S-B, Portion S-C, Northern Landfall; Gantry Crane Removal - Portion N-A; C&C Tunnel RC structure - Portion S-A; Backfilling - Portion S-A & S-C; Water Treatment Facilities Dismantling - Portion S-C; Roofing System Installation - Portion S-A; Fireboard installation - Tunnel; UU installation - Portion S-A, S-B & S-C and Northern Landfall; Carpark Formation - Portion S-A, S-B & S-C and Northern Landfall; Carpark canopies installation - Portion S-A, S-B & S-C; Hard paving and footpath - Pump Sump Area at Northern Landfall; Installation of green roof system - South Ventilation Building; and Reinstatement at Box Culvert.

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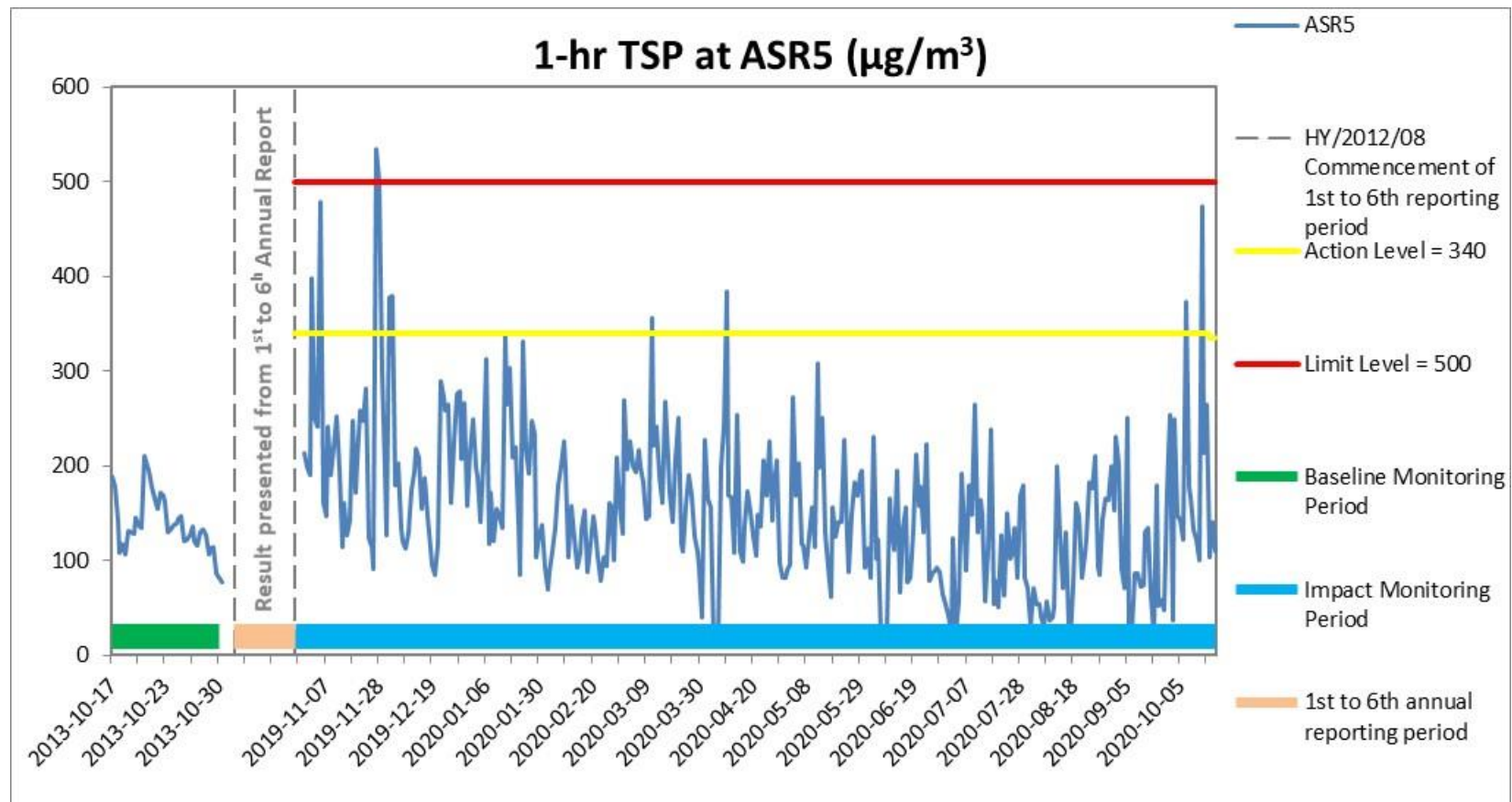


Figure D.4 Baseline & Impact Monitoring – 1-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at ASR5 between 17 October 2013 and 31 October 2020 during Baseline & Impact Monitoring period. Weather condition within the reporting period varied between sunny to rainy. The overall monitoring results were not affected by weather conditions. Major land-based construction activities included: Construction of Thermal barrier – TBM tunnel; Construction of Walkway Corbel & Cover – TBM Tunnel; Road & Drainage works – Portion N-A, Portion S-A, Portion S-B, Portion S-C, Northern Landfall; Gantry Crane Removal – Portion N-A; C&C Tunnel RC structure – Portion S-A; Backfilling – Portion S-A & S-C; Water Treatment Facilities Dismantling – Portion S-C; Roofing System Installation – Portion S-A; Fireboard installation – Tunnel; UU installation – Portion S-A, S-B & S-C and Northern Landfall; Carpark Formation – Portion S-A, S-B & S-C and Northern Landfall; Carpark canopies installation – Portion S-A, S-B & S-C; Hard paving and footpath – Pump Sump Area at Northern Landfall; Installation of green roof system – South Ventilation Building; and Reinstatement at Box Culvert.

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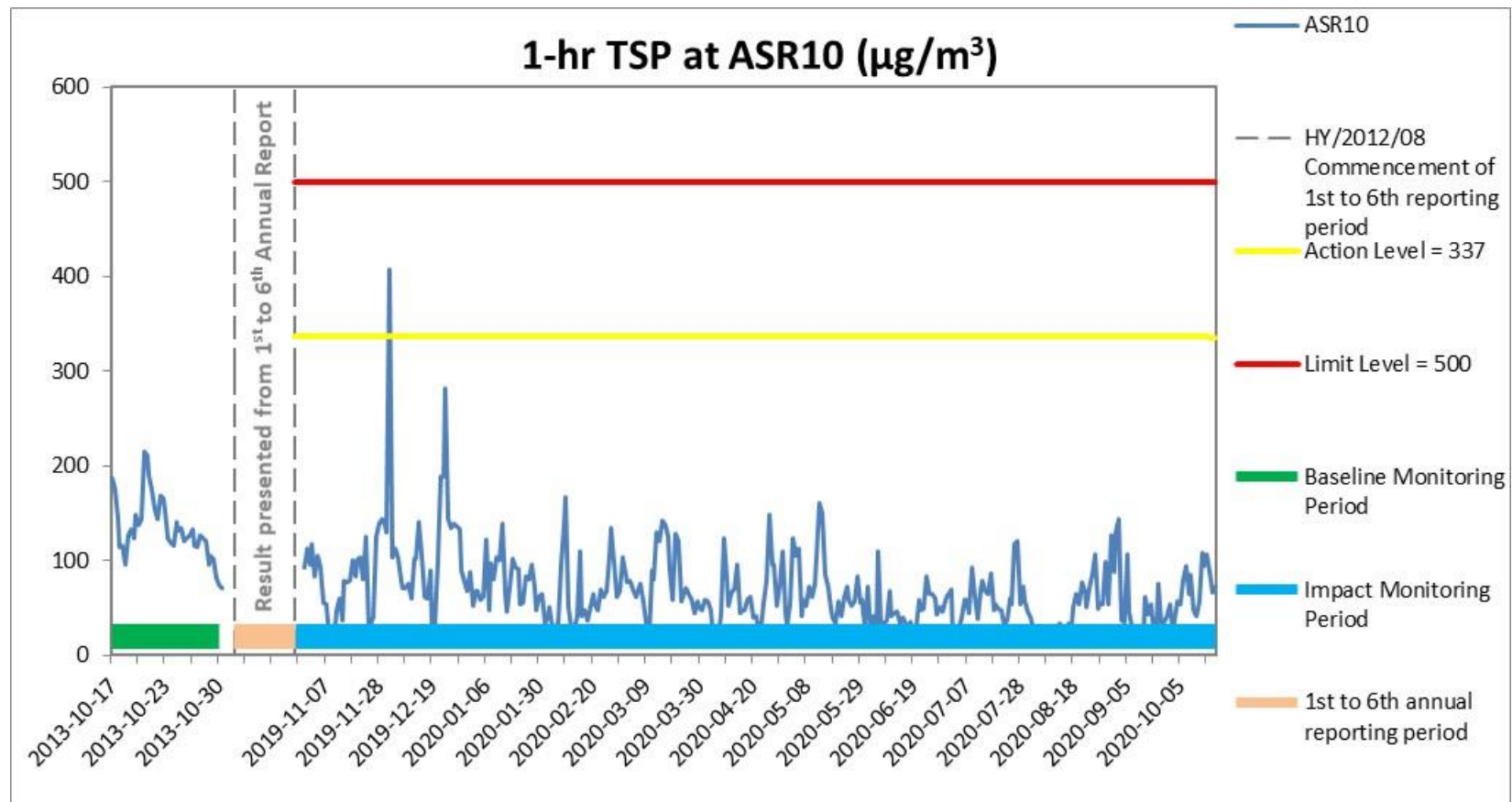


Figure D.5 Baseline & Impact Monitoring - 1-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at ASR10 between 17 October 2013 and 31 October 2020 during Baseline & Impact Monitoring period. Weather condition within the reporting period varied between sunny to rainy. The overall monitoring results were not affected by weather conditions. Major land-based construction activities included: Construction of Thermal barrier - TBM tunnel; Construction of Walkway Corbel & Cover - TBM Tunnel; Road & Drainage works - Portion N-A, Portion S-A, Portion S-B, Portion S-C, Northern Landfall; Gantry Crane Removal - Portion N-A; C&C Tunnel RC structure - Portion S-A; Backfilling - Portion S-A & S-C; Water Treatment Facilities Dismantling - Portion S-C; Roofing System Installation - Portion S-A; Fireboard installation - Tunnel; UU installation - Portion S-A, S-B & S-C and Northern Landfall; Carpark Formation - Portion S-A, S-B & S-C and Northern Landfall; Carpark canopies installation - Portion S-A, S-B & S-C; Hard paving and footpath - Pump Sump Area at Northern Landfall; Installation of green roof system - South Ventilation Building; and Reinstatement at Box Culvert.

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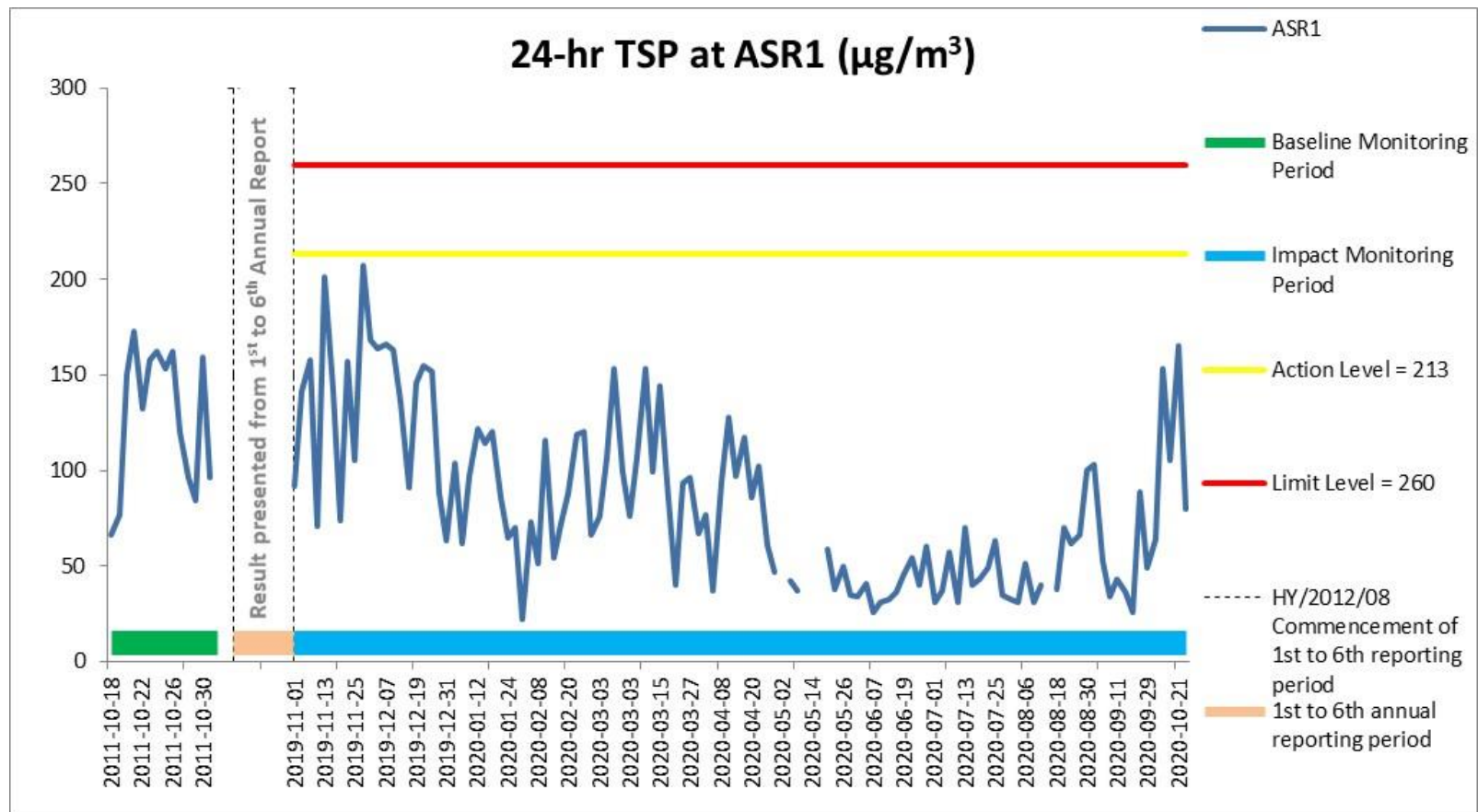


Figure D.6 Baseline & Impact Monitoring - 24-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at ASR1 between 17 October 2013 and 31 October 2020 during Baseline & Impact Monitoring period. Weather condition within the reporting period varied between sunny to rainy. The overall monitoring results were not affected by weather conditions. Major land-based construction activities included: Construction of Thermal barrier - TBM tunnel; Construction of Walkway Corbel & Cover - TBM Tunnel; Road & Drainage works - Portion N-A, Portion S-A, Portion S-B, Portion S-C, Northern Landfall; Gantry Crane Removal - Portion N-A; C&C Tunnel RC structure - Portion S-A; Backfilling - Portion S-A & S-C; Water Treatment Facilities Dismantling - Portion S-C; Roofing System Installation - Portion S-A; Fireboard installation - Tunnel; UU installation - Portion S-A, S-B & S-C and Northern Landfall; Carpark Formation - Portion S-A, S-B & S-C and Northern Landfall; Carpark canopies installation - Portion S-A, S-B & S-C; Hard paving and footpath - Pump Sump Area at Northern Landfall; Installation of green roof system - South Ventilation Building; and Reinstatement at Box Culvert.



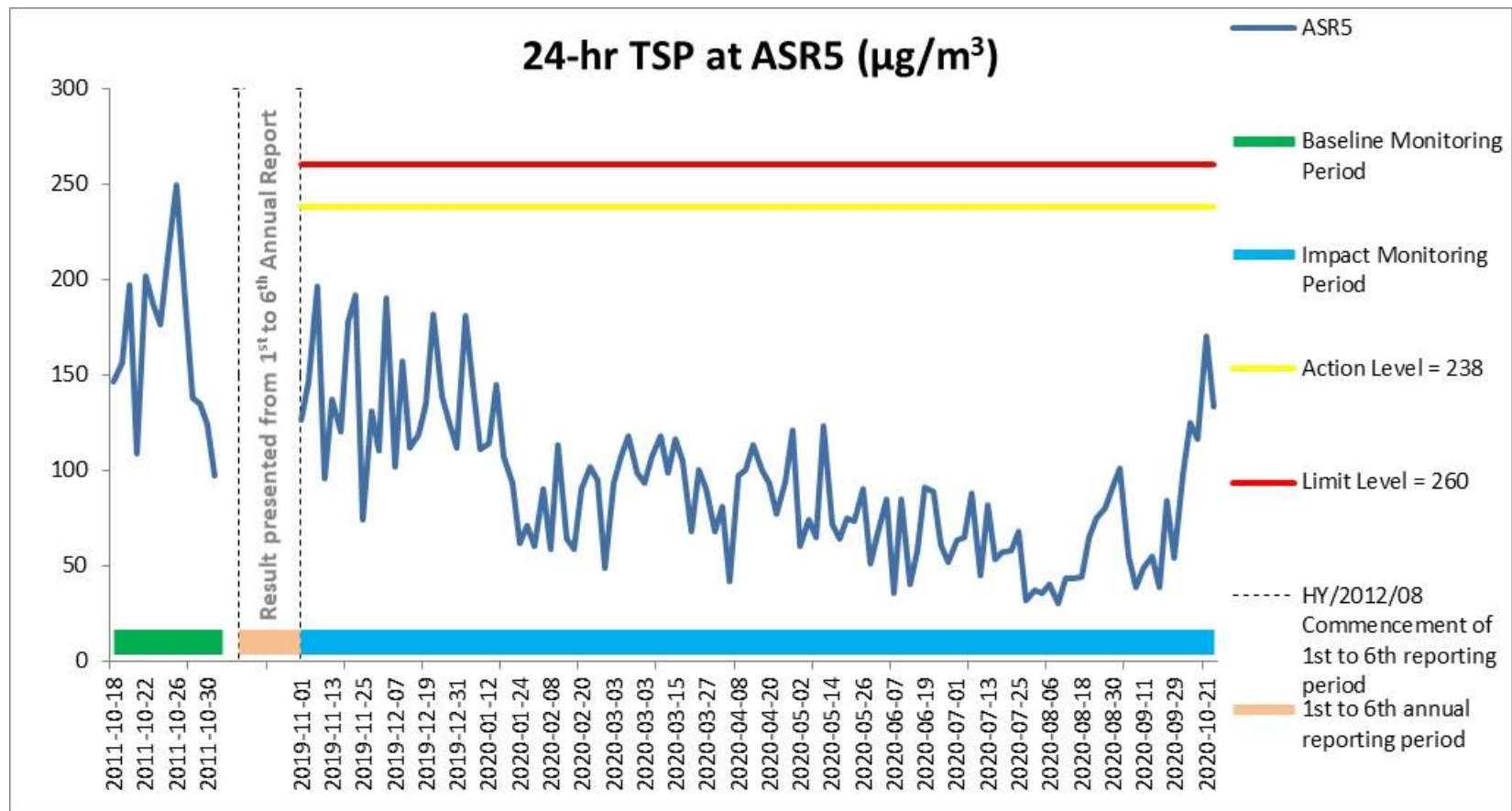


Figure D.7 Baseline & Impact Monitoring - 24-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at ASR5 between 17 October 2013 and 31 October 2020 during Baseline & Impact Monitoring period. Weather condition within the reporting period varied between sunny to rainy. The overall monitoring results were not affected by weather conditions. Major land-based construction activities included: Construction of Thermal barrier - TBM tunnel; Construction of Walkway Corbel & Cover - TBM Tunnel; Road & Drainage works - Portion N-A, Portion S-A, Portion S-B, Portion S-C, Northern Landfall; Gantry Crane Removal - Portion N-A; C&C Tunnel RC structure - Portion S-A; Backfilling - Portion S-A & S-C; Water Treatment Facilities Dismantling - Portion S-C; Roofing System Installation - Portion S-A; Fireboard installation - Tunnel; UU installation - Portion S-A, S-B & S-C and Northern Landfall; Carpark Formation - Portion S-A, S-B & S-C and Northern Landfall; Carpark canopies installation - Portion S-A, S-B & S-C; Hard paving and footpath - Pump Sump Area at Northern Landfall; Installation of green roof system - South Ventilation Building; and Reinstatement at Box Culvert.



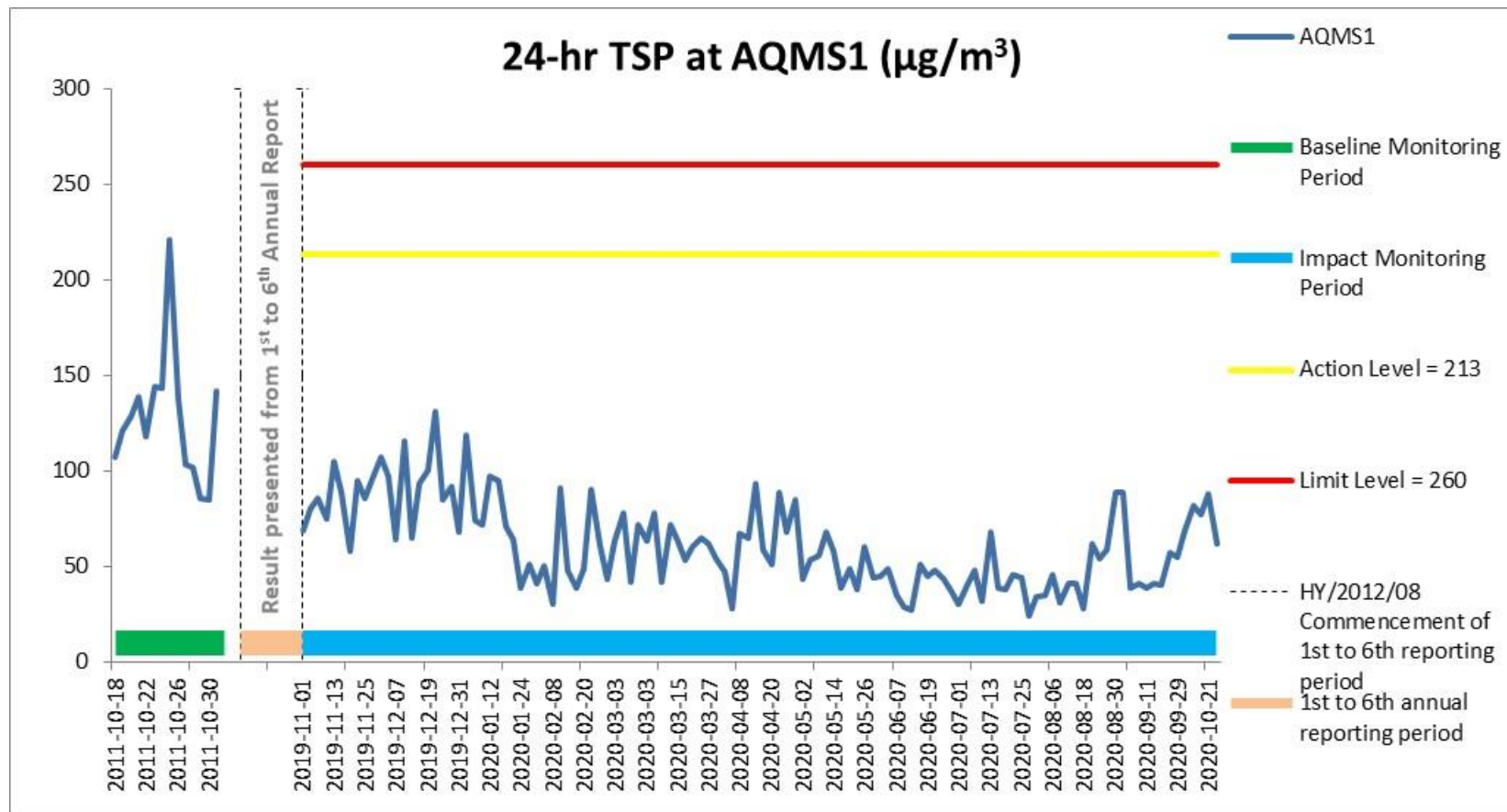


Figure D.8 Baseline & Impact Monitoring - 24-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at AQMS1 between 17 October 2013 and 31 October 2020 during Baseline & Impact Monitoring period. Weather condition within the reporting period varied between sunny to rainy. The overall monitoring results were not affected by weather conditions. Major land-based construction activities included: Construction of Thermal barrier - TBM tunnel; Construction of Walkway Corbel & Cover - TBM Tunnel; Road & Drainage works - Portion N-A, Portion S-A, Portion S-B, Portion S-C, Northern Landfall; Gantry Crane Removal - Portion N-A; C&C Tunnel RC structure - Portion S-A; Backfilling - Portion S-A & S-C; Water Treatment Facilities Dismantling - Portion S-C; Roofing System Installation - Portion S-A; Fireboard installation - Tunnel; UU installation - Portion S-A, S-B & S-C and Northern Landfall; Carpark Formation - Portion S-A, S-B & S-C and Northern Landfall; Carpark canopies installation - Portion S-A, S-B & S-C; Hard paving and footpath - Pump Sump Area at Northern Landfall; Installation of green roof system - South Ventilation Building; and Reinstatement at Box Culvert.



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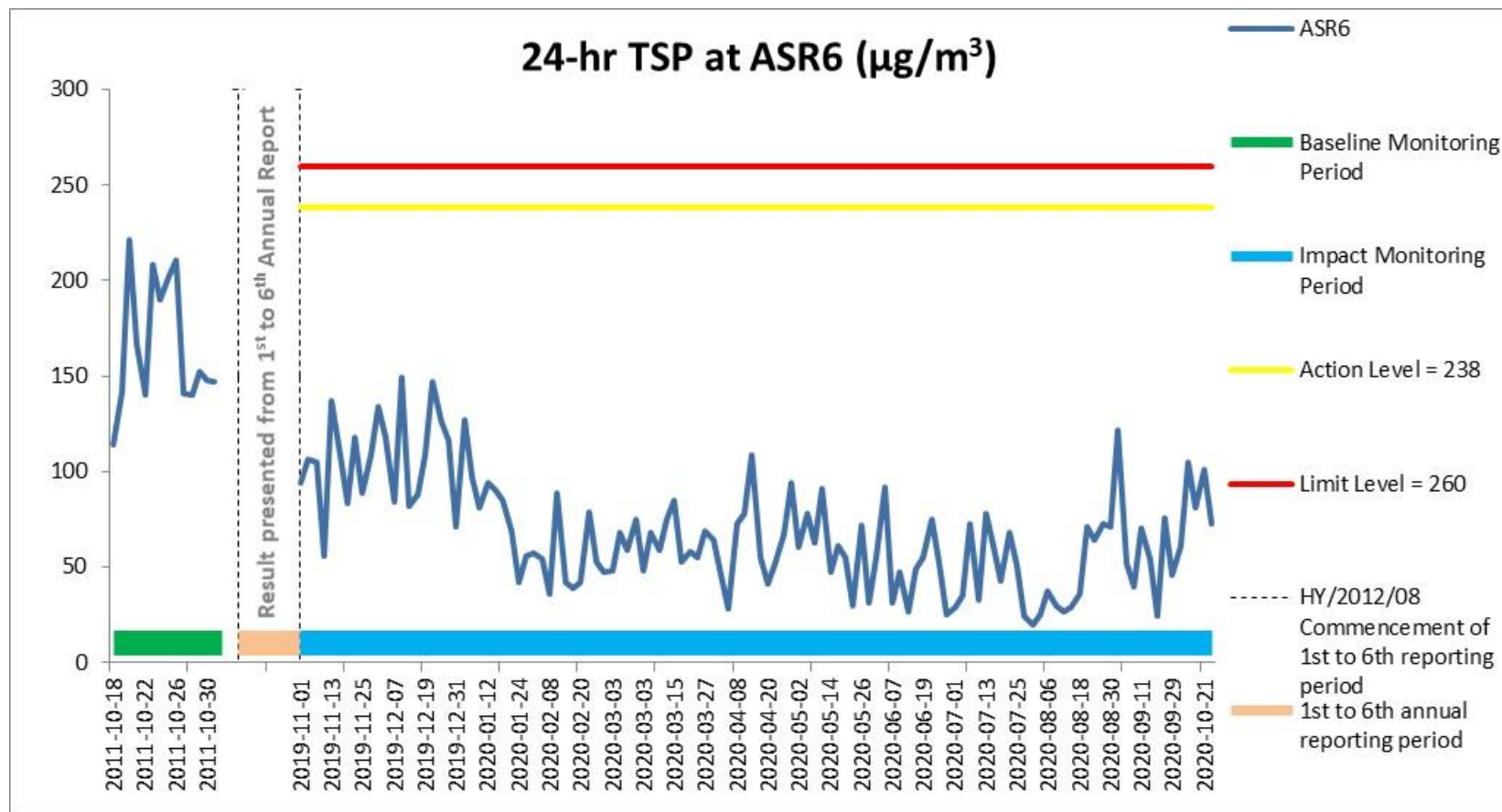


Figure D.9 Baseline & Impact Monitoring - 24-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at ASR6 between 17 October 2013 and 31 October 2020 during Baseline & Impact Monitoring period. Weather condition within the reporting period varied between sunny to rainy. The overall monitoring results were not affected by weather conditions. Major land-based construction activities included: Construction of Thermal barrier - TBM tunnel; Construction of Walkway Corbel & Cover - TBM Tunnel; Road & Drainage works - Portion N-A, Portion S-A, Portion S-B, Portion S-C, Northern Landfall; Gantry Crane Removal - Portion N-A; C&C Tunnel RC structure - Portion S-A; Backfilling - Portion S-A & S-C; Water Treatment Facilities Dismantling - Portion S-C; Roofing System Installation - Portion S-A; Fireboard installation - Tunnel; UU installation - Portion S-A, S-B & S-C and Northern Landfall; Carpark Formation - Portion S-A, S-B & S-C and Northern Landfall; Carpark canopies installation - Portion S-A, S-B & S-C; Hard paving and footpath - Pump Sump Area at Northern Landfall; Installation of green roof system - South Ventilation Building; and Reinstatement at Box Culvert.

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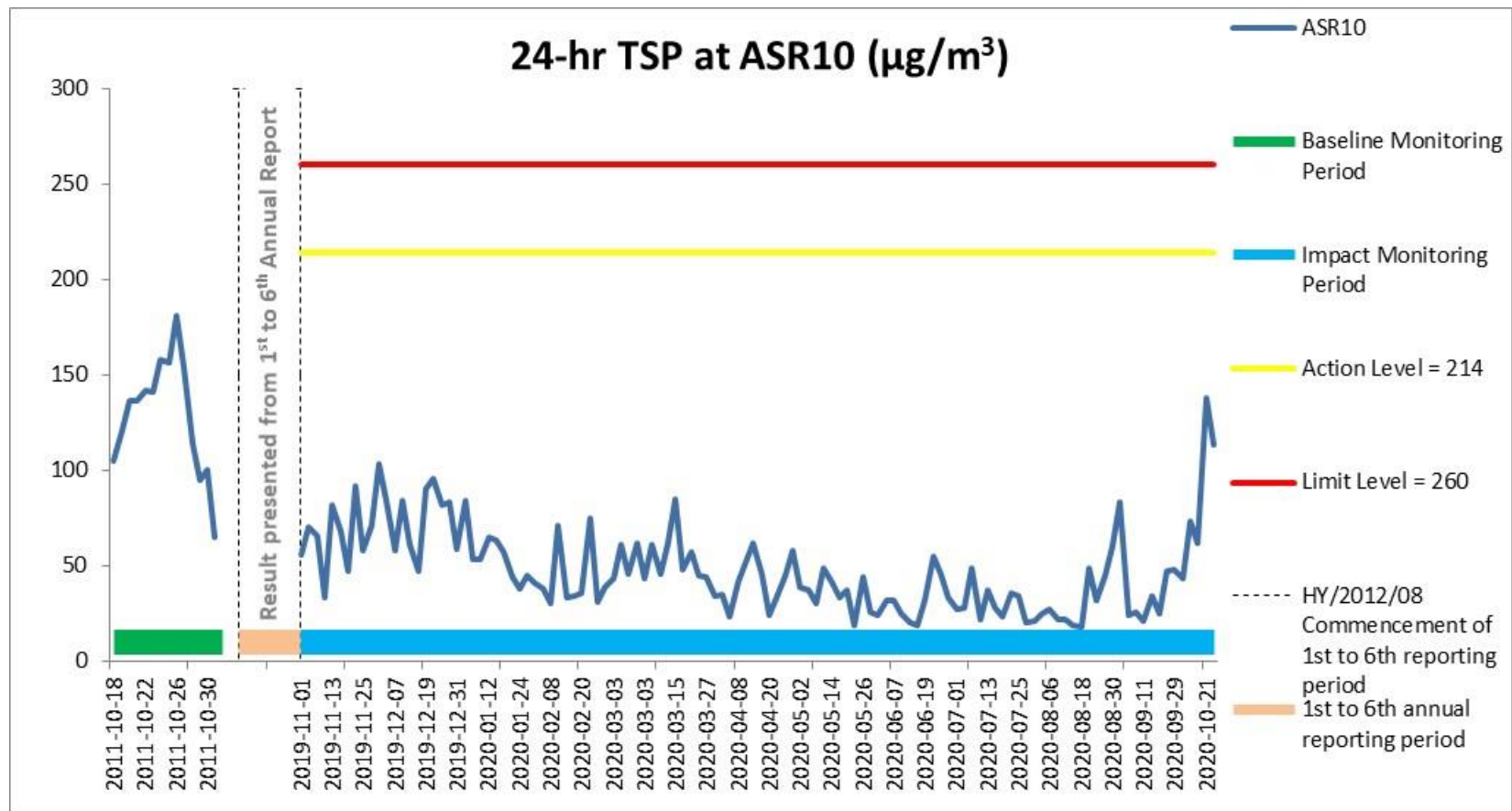


Figure D.10 Baseline & Impact Monitoring - 24-hour Total Suspended Particulates ($\mu\text{g}/\text{m}^3$) at ASR10 between 17 October 2013 and 31 October 2020 during Baseline & Impact Monitoring period. Weather condition within the reporting period varied between sunny to rainy. The overall monitoring results were not affected by weather conditions. Major land-based construction activities included: Construction of Thermal barrier - TBM tunnel; Construction of Walkway Corbel & Cover - TBM Tunnel; Road & Drainage works - Portion N-A, Portion S-A, Portion S-B, Portion S-C, Northern Landfall; Gantry Crane Removal - Portion N-A; C&C Tunnel RC structure - Portion S-A; Backfilling - Portion S-A & S-C; Water Treatment Facilities Dismantling - Portion S-C; Roofing System Installation - Portion S-A; Fireboard installation - Tunnel; UU installation - Portion S-A, S-B & S-C and Northern Landfall; Carpark Formation - Portion S-A, S-B & S-C and Northern Landfall; Carpark canopies installation - Portion S-A, S-B & S-C; Hard paving and footpath - Pump Sump Area at Northern Landfall; Installation of green roof system - South Ventilation Building; and Reinstatement at Box Culvert.

