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April 30, 2026

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### **Dufferin Aggregates Teedon Pit – 2025 Annual Monitoring Report**

Please find enclosed the Annual Monitoring Report for the Dufferin Aggregates Teedon Pit for the 2025 calendar year. This report fulfills the requirements for PTTW No. 6258-BRDJ2M, PTTW No. P-300-1196295834, ECA No. 1293-CF7J3M. Dufferin Aggregates is a CRH Company.

Hard copies of the report can be provided upon request.

Please do not hesitate to contact me if you have any questions or comments.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Alejandra Gutierrez'.

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# 2025 Annual Monitoring Report

## Teedon Pit

Dufferin Aggregates, a CRH Company

30 April 2026

→ **The Power of Commitment**

SW2 – October 13, 2022



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# 1. Introduction

GHD was retained by Dufferin Aggregates, a CRH Company (Dufferin), to complete the 2025 Annual Monitoring Report (AMR) for the Dufferin Teedon Pit (Site) for the period between January 1 and December 31, 2025. This monitoring report was completed pursuant to and combines the associated monitoring results of:

- Ontario Ministry of the Environment, Conservation and Parks (MECP) Permit to Take Water (PTTW) No. 6258-BRDJ2M issued on January 14, 2021
- MECP Environmental Compliance Approval (ECA) No. 1293-CF7J3M issued on (December 6, 2022)

The Dufferin Teedon Pit is located at 40 Darby Rd, Township of Tiny, County of Simcoe, Ontario (north 1/2 Lot 79 Concession 1, PT south 1/2 Lot 80 Concession 1). Dufferin also owns land located to the North of the Site (Teedon Pit Extension). This AMR includes data collected by Dufferin and GHD and includes relevant data from the Teedon Pit Extension. A map of the Site and surrounding lands is presented on Figure 1.1.

The purpose of the AMR is to document the results of the 2025 monitoring program specified in the PTTW and ECA. A copy of PTTW No. 6258-BRDJ2M is presented in Appendix A. A copy of the ECA is provided in Appendix B.

The 2025 monitoring program and related activities include the following, which are discussed in detail in the subsequent sections:

- Quarterly hydraulic monitoring events (groundwater levels and datalogger downloads)
- Recording of water takings (completed by Dufferin)
- Daily Source Pond Water Level Monitoring (completed by Dufferin)
- Routine berm inspections (completed by Dufferin)
- Sump pond Water Quality Monitoring

## 2. Background

### 2.1 Geological/Hydrogeological Setting

The regional overburden deposits near the Site are approximately 140 to 150 metres (m) thick (Singer et al., 1999). They were deposited during and shortly after the Wisconsinian glaciation, and as such are all Pleistocene in age. The primary overlying deposits are the silty to sandy till. These deposits are stone-poor and carbonate-derived (OGS, 2003).

The top of bedrock elevations near the Site are approximately 130 to 140m AMSL (Singer et al., 1999). The bedrock beneath the overburden in this area is the Shadow Lake Formation, which is part of the Simcoe and Ottawa Groups and are Middle Ordovician in age (OSG, 2006). It is usually found to be more than 12 m thick, and due to its relative thinness the Shadow Lake Formation and overlying Gull River Formation are commonly portrayed as a single unit (Singer et al., 1999). The Shadow Lake Formation consists of shale, sandstone, limestone, and conglomerate.

The Teedon Pit is located above the Alliston Aquifer Complex (an overburden aquifer), which covers the entire area between the Oak Ridges Moraine and Georgian Bay. It consists of fine to coarse sand deposits that occur at variable depths in close association with silt and clay deposits (Singer, 2003). All these materials were laid down in glacial and glaciolacustrine environments (Singer, 2003). The Alliston Aquifer Complex consists of multiple aquifers at shallow and deep levels. The Alliston Aquifer (referred to as the upper aquifer on-Site) has a relatively high permeability and generally has good water-yielding capacity. A localized, thick silt and clay aquitard underlies the source/sump pond, settling pond, and the unnamed pond and downstream unnamed tributary. The aquitard layer limits the interconnections between this shallow groundwater system (shallow groundwater zone) and the upper aquifer as is

evidenced by the large (greater than 15 metres) water elevation difference between shallow groundwater zone monitoring wells and the upper aquifer monitoring wells (refer to Section 4.2).

## 2.2 Permit to Take Water (PTTW)

This monitoring report satisfies the requirements of the monitoring program under the MECP Section 34.1 of the Ontario Water Resources Act (OWRA) PTTW No. 6258-BRDJ2M which was issued on January 14, 2021 and amended January 19, 2021 as presented in Appendix A.

PTTW No. 6258-BRDJ2M includes the following authorized water takings, as specified in Table A, therein:

Source Name	Source Type	Taking Specific Purpose	Taking Major Category	Max Taken (L/min)	Max Hours Per Day	Max Taken (L/day)	Max Days Per Year
PW1-09 (WWR#7124734)	Well Drilled	Aggregate Washing	Industrial	950	24	1,368,000	210
Source Pond	Pond Dugout	Aggregate Washing	Industrial	7,274	12	5,237,280	210
					<b>Total</b>	<b>6,605,280</b>	

The PTTW No. 6258-BRDJ2M environmental monitoring requirements are presented in Condition 4.2 and summarized below:

### Condition 4.2

- i. Install and maintain dataloggers at the on-Site and off-Site monitoring wells listed in Schedule B and monitor groundwater levels at a minimum frequency of every 4 hours. This monitoring shall occur, at a minimum, between February 15 and December 15 of each year for which the Permit is valid.
- ii. Should any other on-Site monitoring well be installed, then groundwater levels shall be monitored as per item (i) above and the data included in the Annual Monitoring Report.
- iii. Measure water levels in private water wells WWR 7150632 and WWR 5717709, if permission is granted by the well owners. Should the permission of either of these domestic water well owners be withdrawn, then the permit holder shall replace the well for which permission has been denied with a well in the same aquifer either on or off Site.
- iv. Measure the water level elevation in the Source Pond between February 15 and December 15 when the pond is not frozen at a minimum frequency of twice per day, once in the early morning and once in the late afternoon or evening.

Please note the PTTW references the location, Source Pond (as above), the ECA also refers to this same location as the sump pond. Throughout this report this feature will be referred to as the sump pond; except were directly referencing a PTTW requirement. Within the Source/sump pond water levels and samples are collected in reference to monitoring location SW1, as shown on Figure 1.1.

## 2.3 Environmental Compliance Approval (ECA)

ECA No. 1293-CF7J3M was issued on December 6, 2022. Aggregate washing occurred on-Site in 2025 using the newly constructed aggregate washing system that was constructed between November 22, 2023 and April 10, 2024.

ECA No. 1293-CF7J3M is presented in Appendix B.

Where applicable, prior to construction of the approved works, ECA No. 1293-CF7J3M routine environmental monitoring requirements were initiated in 2023 as presented in Condition 6.2 and Condition 7.2. The monitoring conditions are summarized below:

**Condition 6.2** - Samples shall be collected and analyzed at the following sampling locations, at the sampling frequencies and using the sample type specified for each parameter listed:

Surface Water Monitoring	
Sample Locations	1) The upgraded sump (source) pond cell (SW1); and 2) The unnamed downstream pond (SW2)
Sample Frequency	1) Before commencement of the operating season; 2) In April/May; 3) In July/August; and 4) In October/November
Sample Type	Grab
Sample Parameters	Total Suspended Solids (TSS), Metals, Anions, Turbidity

Surface Water Monitoring	
Sample Locations	Water discharged from the upgraded sump (source) pond cell emergency overflow pipe discharging to the unnamed downstream pond
Sample Frequency	During an emergency overflow event from the upgraded sump (source) pond cell emergency overflow pipe discharging to the unnamed downstream pond
Sample Type	Grab
Sample Parameters	Total Suspended Solids (TSS), Metals, Anions, Turbidity

### 3. Site Operations

The Teedon Pit is licensed under the Ministry of Natural Resources (MNR) ARA Licence No. 3670 for above water table aggregate extraction of up to 600,000 tonnes annually. The Teedon Pit has an 85.39 hectare (ha) licensed area of which 50.5 ha can be extracted.

The Teedon Pit was acquired by Dufferin in 2017 and was previously owned by Cedarhurst Quarries & Crushing Limited since 1987. The accuracy of the hydraulic monitoring data collected prior to ownership by Dufferin, could not be confirmed as these data were collected by the previous owner; however, the data has been reviewed and deemed appropriate to include herein for context.

The Teedon Pit Extension (ARA Licence No. 625375) is located immediately north of the Teedon Pit and has a licenced area of 15.3 ha.

2025 Site operations included aggregate extraction and processing, which includes on-Site water use for aggregate washing operations, dust suppression, operational uses (i.e., equipment washing and filling office water supply).

#### 3.1 2025 Extension ARA Drilling

In March and April, 2025, Dufferin installed four new monitoring well (MW11-25, MW12-25, MW13-25, and MW14-25). These wells were installed as a requirement of the Extension Site Plans (ARA Licence 625375 – Operational Plan – Note 43) and are to be installed one year prior to extraction within the Extension. These wells correspond with the proposed locations on the Site Plans as follows: MW11-25 (MW-A), MW12-25 (MW-B), and MW13-25 (MW-C). The Site Plans also require that these wells “will be constructed such that the measured levels are within the well monitoring screen and reflect the water table surface at each well location”; wells MW11-25 and MW13-25 were successfully installed in this manner. Three boreholes (BH1-25, BH2-25, and BH3-25) were advanced near MW-C, successively further into the extraction limit; all of which identified dry to moist conditions to the top of the aquitard. Finally, MW12-25 was advanced at the location presented on Figure 1.1. Again, the thick silt/clay aquitard that

underlies the silt pond was encounter and no groundwater was identified to the top of the aquitard. The well was then advanced to depth within the upper aquifer. The artesian conditions below the aquitard resulted in a water level above the screened interval. In a final attempt to install a well that adheres to the condition of the Site Plans (the water table within the screened interval), a fourth well (MW14-25) was stepped in 140 m west of MW12-25 and outside of the northern extraction limit. Again, dry to moist soils were encountered to the top of the aquitard. The well was again advanced to below the inferred upper aquifer surface and screened within the next sand unit detected. Subsequent monitoring results discussed in Section 4.2 indicate that MW14-25 was screened within an isolated sand seem within the aquitard and the water levels are not representative of a water table surface for the upper aquifer. Stratigraphic and instrumentation logs for the four wells and three boreholes are presented in Appendix D.

Based on the results of the 2025 monitoring well installation program, the top of the aquitard declines from east to west and ultimately terminates between MW14-25 and MW9-18. Extraction within the Extension is not intended to proceed into the aquitard. As a results, sufficient offset from the water table will be maintained and the installed wells (MW11-25, MW12-25, and MW13-25) are sufficient to monitor the water table located within the upper aquifer across the Extension and meet the intent of the conditions within the ARA.

### 3.2 Sump Pond Overflow – April 2025

On April 3, 2025, Dufferin identified that the sump pond was overflowing through the emergency overflow to the unnamed pond to the north (monitoring station SW2 as shown on Figure 1.1). The overflow was a result of significant spring precipitation (see Section 4.1) combined with snow melt. Aggregate washing operations had not begun for the year at that time and had not been conducted since October 2024. At the time of the overflow there were no pumps installed in either of the recirculation cell or sump pond, so the Site had no way to mechanically reduce the water level within the ponds. Therefore, the passive gravity overflow of stormwater continued, following precipitation, until water taking commenced on April 10, 2025. Aggregate washing subsequently began on April 28, 2025.

As required by ECA Condition 6.2., a sample was collected on April 3, 2025 at the emergency overflow and notice was provided to MECP by email. Correspondence with MECP is provided in Appendix E. The analytical results are discussed in Section 6.0.

## 4. Hydraulic Monitoring

The following 2025 routine activities were completed by GHD at the Site, on behalf of Dufferin, and, on the dates presented below:

Date (2025)	Site-wide Hydraulic Monitoring	SW1 and SW2 Surface Water Sampling	SW1 Overflow Sampling
January 30	Completed	NR	NR
March 17	NR	Completed	NR
April 1	Completed	NR	NR
April 3	NR	NR	Completed
May 15	NR	Completed	NR
July 10	Completed	Completed	NR
October 8	Completed	Completed	NR

NR – Monitoring not required

Groundwater depths were measured using a water level meter to the nearest 0.01 m. Dataloggers were downloaded and verified at the pumping well, on-Site groundwater monitoring wells, private wells, and SW1 during each of the 2025 hydraulic monitoring events.

The monitoring well completion details are provided in Table 4.1 and the groundwater and surface water monitoring locations are presented on Figure 1.1. A summary of the 2025 groundwater elevations is provided in Table 4.2.

SW1 and SW2 sampling was completed as presented above and results are summarized in Section 6.0, below.

In addition to the field activities completed by GHD, Dufferin completed the daily flow meter readings during periods of taking (PTTW Condition 4.1) and twice daily sump pond water level observation (PTTW Condition 4.2.iv.). Dufferin monitoring results are discussed in Section 5.

## 4.1 Precipitation

The 2025 daily and monthly precipitation data were obtained from Environment Canada's Barrie-Oro, Ontario station located approximately 30 kilometres (km) southeast of the Site (Climate Station I.D. #6117700). Data prior to June 1, 2023 were obtained from Environment Canada's Collingwood, Ontario station located approximately 35 kilometres west-southwest of the Site (Climate Station I.D. #6111792) prior to discontinuation of data collection at this station. The 2025 precipitation data are presented on Figure 4.1 and are compared to the monthly Environment Canada Climate Normals (1981-2010) prepared by Environment Canada for Station #6115127 located at the Midland Wastewater Treatment Plant. Climate Normals are not available for the Barrie-Oro or Collingwood stations and weather data is no longer presented for the Midland station.

Conditions at the Collingwood and Barrie-Oro stations have been observed to be generally consistent with the conditions at the Site. Due to the localized nature of thunderstorm and snowsquall activity in the summer/winter months, some variation in precipitation totals may occur between the weather stations and the Site.

Precipitation totals in 2025 (789.5 millimetres [mm]) were below the climate normal annual precipitation total from 1981-2010 of 1,040.6 mm. As shown on Figure 4.1, an extended dry period was observed between June and December.

Between March 28 to April 3, 2025, the days leading up to the overflow of the sump pond discussed in Section 3.2, 96.6 mm of precipitation fell and combined with the melting of the remaining snowpack. An additional 9.7 mm occurred between April 3 and April 10, when water taking from the sump pond began.

## 4.2 Site Wide Groundwater Elevations

Hydraulic water level monitoring events occurred in 2025 at one pumping well (PW1-09), six on-Site groundwater monitoring wells (MW1, MW4-10, MW5-18, MW6-18, MW6R-18, and MW7R-22), five off-Site groundwater monitoring wells located on adjacent Dufferin property (MW1-09, MW8-18, MW9-18, MW10S-18, and MW10D-18), two private wells (WW9 [#50632] and WW15 [#17709]), and one surface water location within the sump pond for elevation (SW1). Four new wells (MW11-25, MW12-25, MW13-25 and MW14-25) were commissioned in March and April of 2025 and added to the routine monitoring program starting in July 2025. Following installation and development, the four new wells were equipped with dataloggers as required by the Site Plans. MW13-25 was equipped with a dual function water pressure and conductivity logger.

Groundwater elevation contours for the January 30, 2025 and October 08, 2025 monitoring events are provided on Figure 4.2 and Figure 4.3, respectively. Conditions on January 30, 2025 represent the Site with no significant water taking from PW1-09 and prior to installation of the new wells. Conditions on October 8, 2025 represent the Site following a season of water taking at both PW1-09 and the sump pond with the incorporation of water elevations at the new wells. The groundwater elevation contours show that groundwater in the upper aquifer generally flows to the west, from about 238 to 234 m above mean sea level (AMSL). The addition of the additional wells confirms the predominantly west to southwest flow direction. During routine water takings, localized drawdown in the immediate

vicinity of PW1-09 (i.e., up to approximately 0.7 m at MW5-18) is anticipated. Drawdown recovers rapidly following the cessation of pumping at PW1-09.

A hydrograph presenting the historical monitoring well groundwater elevation data (2010 to current) is presented on Figure 4.4. A hydrograph presenting the monitoring well groundwater elevation data for 2025 is presented on Figure 4.5. Individual hydrographs for on-Site monitoring wells/well nests, monitored private wells, and SW1 are presented in Appendix C. The Appendix C hydrographs present both manually-recorded water levels along with datalogger data and daily precipitation for 2025.

Groundwater elevations measured in 2025 were generally within historical ranges for each of the locations (within historical lows and highs). Groundwater levels in the upper aquifer typically vary by approximately 0.3 m due to seasonal climatic conditions. Somewhat larger variations of up to 0.7 m are observed at monitoring well MW5-18 which are attributed to pumping influences from PW1-09, as anticipated. Monitoring well MW5-18 is located approximately 110 m from pumping well PW1-09.

In the shallow groundwater zone, annual variations of approximately 0.5 to 1.5 m can be observed with noticeable response to periods of increased precipitation. As presented on Figures 4.4 and 4.5, the shallow groundwater zone and the upper aquifer potentiometric surfaces are typically separated by greater than 15 m due to the presence of the local aquitard in the vicinity of the sump pond. Groundwater elevations observed at MW14-25 are approximately 4 m higher than water elevations observed within the upper aquifer. These results support that the interval screened by MW14-25 is likely within an isolated sand seam located within the aquitard and not representative of the shallow aquifer.

The surface water hydrograph for SW1 in 2025 is presented on Figure 4.5 (datalogger only). Appendix C also presents the historical data at SW1 including manual readings; however, data prior to August 2017 (the start of Dufferin washing operations) was not made available by the previous owner/operator. The newly constructed sump pond is equipped with a float control that ceases the supply of water from PW1-09 at a sump pond elevation of 263.95 m AMSL. The sump pond overflow invert elevation is 264.30 m AMSL; greater than 0.30 m above the float control elevation.

Overflow from the sump pond to the unnamed pond was observed in 2025 from April 3<sup>rd</sup> to April 10<sup>th</sup> as described in Section 3.2.

Since instrumentation in 2010, groundwater elevations at Private Wells WW9 and WW15 have shown routine variability and response to domestic supply demands as presented in Appendix C. A manual water level was recorded on July 14, 2022 at WW9 during apparent heavy domestic use; at that time the groundwater elevation was 184.94 m AMSL. The datalogger at WW9 is hung at an elevation of 211 m AMSL. As a result, during extended periods of domestic supply well usage, water levels at WW9 drop below the monitoring interval of the datalogger but water levels historically would recover to within the monitoring interval within a couple hours after the domestic usage ceases. The four-hour transducer monitoring frequency did not necessarily capture the full extent of drawdown to 211m AMSL due to the short domestic use interval and historical rapid recovery of the water level in the well.

Beginning in 2024 and as presented in the 2024 AMR, an observed reduction in water elevations/recovery at WW9 was noted. In 2025, CRH investigated the performance of the well. WW9 is located on property owned by CRH. The apparent decline in water levels was attributed to a reduction in well yield performance that resulted in slow recovery following domestic pumping cycles. There are no indications of changes to the water table at similarly screened wells on-Site and is therefore the reduced recovery rate is not attributable to water taking operations at the Site. As of 2025, the well yield remains suitable for its intended use and no repairs are proposed at this time.

## 5. Water Taking

PTTW No. 6258-BRDJ2M allows for the water taking from PW1-09 with takings up to 24 hours per day and up to 210 days per year. Routine water takings are permitted up to 950 litres per minute (L/min) (maximum of

1,368,000 litres per day [L/day]). PTTW No. 6258-BRDJ2M also allows for water taking from the sump pond with takings up to 12 hours per day and up to 210 days per year. Water taking is permitted up to 7,274 L/min (maximum of 5,237,280 L/day). It is noted that, beginning in 2024, the sump pond has been constructed to not receive water directly from the aggregate washing operations except in the event of recirculation cell overflow. The recirculation cell includes water supplied from PW1-09, recirculated wash water, direct precipitation, and adjacent runoff.

The water taking data under PTTW No. 6258-BRDJ2M for 2025 are presented in Table 5.1 along with the twice daily sump pond (SW1) water levels collected by Dufferin. Please note that the manual measurement collected by Dufferin generally track the datalogger data, as presented in Appendix C – Figure C-13.

Water takings from PW1-09, for the purposes of recirculation cell and sump pond top-up, occurred between April 30, 2025 and December 12, 2025. Water stored within the sump pond was taken for Site operations on 65 occasions in 2025 as presented in Table 5.1. Aggregate washing operations occurred between April 28 and December 2, 2025. There were no exceedances of the permitted water taking quantities, rates or hours in 2025 from either PW1-09 or the sump pond.

In total, 25,386,775 L of groundwater were taken from PW1-09 in 2025 for on-Site uses; approximately 9% of the permitted water taking. In total, 2,233,003 L of water was supplied from the sump pond to operations in 2025.

## 6. Analytical Results

Water quality sampling was complete throughout 2025. Five surface water sampling events were completed at SW1 and four at SW2; consistent with the approved ECA monitoring program. Routine surface water samples were collected on March 17 (before commencement of the washing season on April 28, 2025), May 15 (after commencement of the washing season), July 10, and October 08, 2025. An additional SW1 sample was collected on April 3, 2025 in response to a sump pond overflow event (see Section 3.2).

### 6.1 Surface Water Quality

For the purposes of this AMR, SW1 is the monitoring location designation for the sump pond and SW2 is the monitoring location designation for the unnamed pond adjacent to the sump pond.

SW1 and SW2 water quality samples were each collected near the overflow structure to the unnamed pond (see Figure 1.1); SW1 is near the inlet and SW2 is near the outlet. No flow through the sump pond overflow was observed during the routine sampling events; however, overflow was observed at the time of the April 3, 2025 overflow sampling event. For each location, grab samples were collected from open water portions of the respective feature; the April 3, 2025 sample was collected at the inlet to the overflow pipe.

Surface water quality samples were collected and submitted to ALS Laboratories in Waterloo, Ontario. The surface water samples were collected in laboratory-supplied analyte-specific sample containers, preserved according to laboratory requirements, and delivered in coolers, on ice, under chain-of-custody procedures. All surface water samples were analyzed for the following parameters: total and dissolved (field filtered) metals, anions, turbidity and TSS. Laboratory results were reviewed and validated by a GHD chemist to confirm acceptability of the laboratory results; all 2025 results were considered accepted for use with noted qualifiers, where applicable.

The 2025 validated analytical results are provided in Table 6.1 and are screened against Ontario Provincial Water Quality Objectives (PWQOs) to provide context.

In general, water quality at both SW1 and SW2 is within the PWQO with the following exceptions:

- Total Aluminum was detected at SW1 above the PWQO in March and April at concentrations ranging from 0.122 to 0.197 milligram per litre (mg/L). The PWQO for aluminum (0.075 mg/L) is based on clay-free samples. No washing was occurring during these sampling events and the elevated aluminum would generally be expected

given the suspension of sediments within stormwater passing through the settling pond systems in the spring. All field-filtered dissolved aluminum results were below the PWQO and demonstrate that the total aluminum is likely the result of suspended clay particles within the water at SW1. Total aluminum was similarly observed above the PWQO at SW2 in the in May 2025 at a concentration of 0.141 mg/L.

- Total iron was detected at SW2 above the PWQO of 0.30 mg/L in March, May and October at concentrations ranging from 0.322 mg/L to 1.23 mg/L. It is noted the iron floc is routinely observed around the perimeter of the unnamed pond and concentrations of iron are likely the result of venting of shallow perched groundwater from iron rich soils near SW2. Dissolved Iron concentrations were below the PWQO in all samples.

The surface water chemistry of both the sump pond (SW1) and the unnamed pond (SW2) is predominantly characteristic of the mineralogy of the local sand and gravel deposits combined with precipitation and stormwater runoff. As anticipated, based on the intent of the updated sump pond (i.e., only receiving overflow from the recirculation cell), total metals concentrations in 2025 are lower than observed in previous years and generally remain below PWQOs. The dissolved metals concentrations demonstrate that any suspended sediment would be removed by natural filtering through the depositional liner of the sump pond and/or the local aquitard underlying the sump pond. The SW2 results remain consistent with historical results and demonstrate that operation of the previous sump pond was not having an observable impact in water quality within the unnamed pond and the clays and silts in suspension within the sump pond do not pass through the approximately 20 m of soil separating the two pond water surfaces. The lined recirculation cell constructed under permitted ECA No. 1293-CF7J3M provides additional separation between the aggregate wash water and the unnamed pond.

In the spring, prior to the seasonal installation of pumping equipment, the Site had no means to mechanically control the elevation of water within the sump pond or recirculation cell. In the fall, capacity is typically left within the ponds for the capture of stormwater without outflow; however, at the end of the 2024 season a pump failure stopped operations for the year, and water levels could not be lowered in the ponds. Snow melt combined with spring precipitation resulted in the overflow of the ponds. Based on the massive retention time provided within the ponds allowing for the settling of storm water, the water quality discharging to the unnamed pond was generally consistent with the water within the unnamed pond in the months before and after the discharge event.

## 7. Response to Public Inquiries

Condition 5.1 of the PTTW and Condition 7.5 of ECA 1293-CF7J3M stipulate that the Permit Holder shall immediately notify the local District Office of any well water complaint arising from the water taking / ECA operations.

No complaints relating to the water taking / ECA works were received by Dufferin Aggregates for the Teedon Pit in 2025 and no complaints were reported to Dufferin by the MECF in 2025.

Furthermore, on February 1, 2021 (within 30 days of the issuance of the Permit), Dufferin distributed its Dufferin Aggregates Teedon Pit – Well Complaint Response Procedure described in item 4 of Schedule A of PTTW No. 6258-BRDJ2M to the Teedon Pit Community Liaison Committee (CLC), the Corporation of the Township of Tiny and the Corporation of the Township of Tay (PTTW Condition 4.5).

## 8. Conclusions and Recommendations

Based on the results of the 2025 monitoring program, the following conclusions are provided:

- 1) On each day water was taken, the volume and rate of taking was recorded and takings were submitted to Water Taking Reporting System (WTRS) prior to March 31, 2026 (PTTW Condition 4.1).
- 2) Dataloggers were in place at all on- and off-Site monitoring locations throughout 2025.

- 3) Four new monitoring locations were installed in 2025 and their locations achieve the intent of the extension Site Plan Conditions given the conditions encountered.
- 4) Water levels were recorded at WWR 7150632 and WWR 5717709 throughout 2025 (PTTW Condition 4.2 iii.).
- 5) Water level observations were recorded twice per day in the sump pond and elevation data was supplemented with a datalogger during 2025 (PTTW Condition 4.2 iv.).
- 6) Routine surface water quality sampling was completed at SW1 and SW2 in 2025 (ECA Condition 6.2).
- 7) Discharge from the sump pond occurred between April 3 and 10, 2025 and a discharge sample was collected accordingly (ECA Condition 6.2).
- 8) There are no indications of water quantity or water quality impacts to water resources arising from the water taking activities.
- 9) Dufferin continues to implement operation and maintenance procedures for the ECA works (ECA Condition 5.11 and 5.12) as well as a spill contingency and pollution prevention plan in 2025 (ECA Condition 8.0).
- 10) No water supply complaints relating to the water taking were received for the Teedon Pit in 2025.

Based on the results of the 2025 monitoring program, the following recommendations are provided:

- 1) The monitoring program required by PTTW No. 6258-BRDJ2M should be continued in 2026.
- 2) The monitoring program required by ECA No. 1293-CF7J3M should be continued in 2026.
- 3) As required by PTTW Condition 4.7, this report should be posted to the Dufferin Aggregates website prior to May 31, 2026.
- 4) Data presented herein should be provided electronically to MECP (PTTW Condition 4.3 iii.) under separate cover.

## 9. References

- Environment Canada, 2025. 1981 to 2010 Canadian Climate Normals – Midland Water Pollution Control Plant (ID 6115127). Accessed on February 13, 2025.
- GHD, 2025. 2024 Annual Monitoring Report, Dufferin Teedon Pit, Township of Tiny, County of Simcoe, Ontario. Dated April 30, 2025.
- GHD, 2024. 2023 Annual Monitoring Report, Dufferin Teedon Pit, Township of Tiny, County of Simcoe, Ontario. Dated April 30, 2024.
- GHD, 2023. 2022 Annual Monitoring Report, Dufferin Teedon Pit, Township of Tiny, County of Simcoe, Ontario. Dated April 28, 2023.
- GHD, 2022. OWRA S53 Environmental Compliance Approval (ECA) Supporting Information. Teedon Pit, Dufferin Aggregates. Dated June 7, 2022.
- GHD, 2022. 2021 Annual Monitoring Report, Dufferin Teedon Pit, Township of Tiny, County of Simcoe, Ontario. Dated April 29, 2022.
- Ontario Geological Survey (OSG), 2003. Surficial Geology of Southern Ontario: OGS: Data 128.
- OGS, 2006. 1:250,000 Scale Bedrock Geology of Ontario: OGS: Data 126-revised.
- Singer, S.N., T. Cheng, and M.G. Scafe, 2003. The Hydrogeology of Southern Ontario, Second Edition. Toronto: Ministry of the Environment.
- Singer, S., T. Cheng, M. Scafe, et al., 1999. The Groundwater Resources of The Severn Sound Remedial Action Plan Area. Prepared in Cooperation with the Severn Sound Remedial Action Plan and the Ministry of the Environment.
- US EPA, 2016. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, USEPA 540/R-94-013, September 2016.

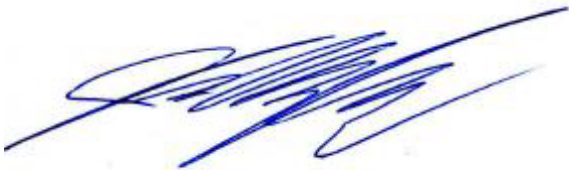
All of Which is Respectfully Submitted,  
GHD



Richard Chatfield, P. Eng.

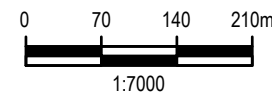
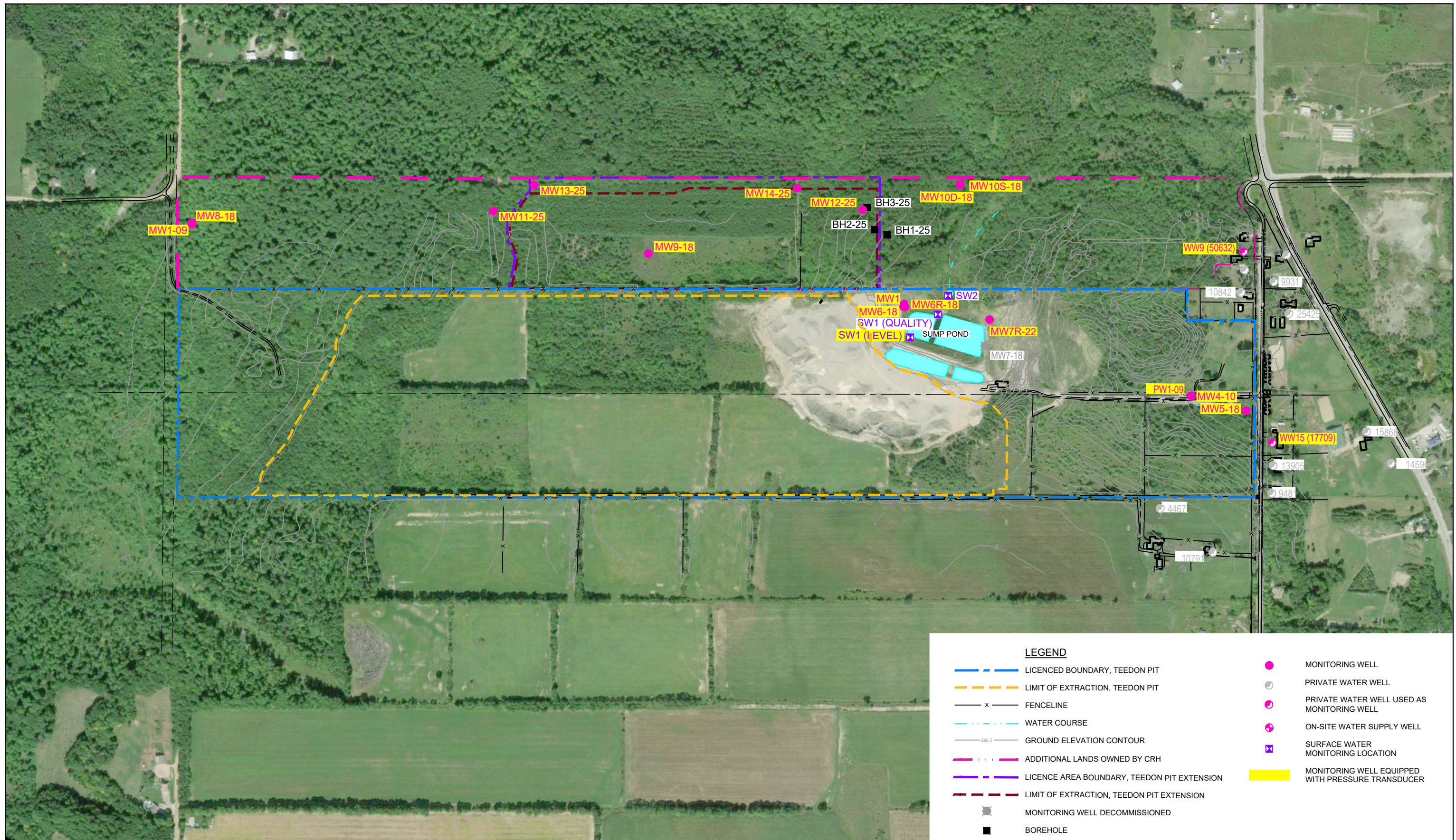


Dan Puddephatt, P. Geo (Limited)



J. Richard Murphy, M.A.Sc., P. Eng.

# Figures

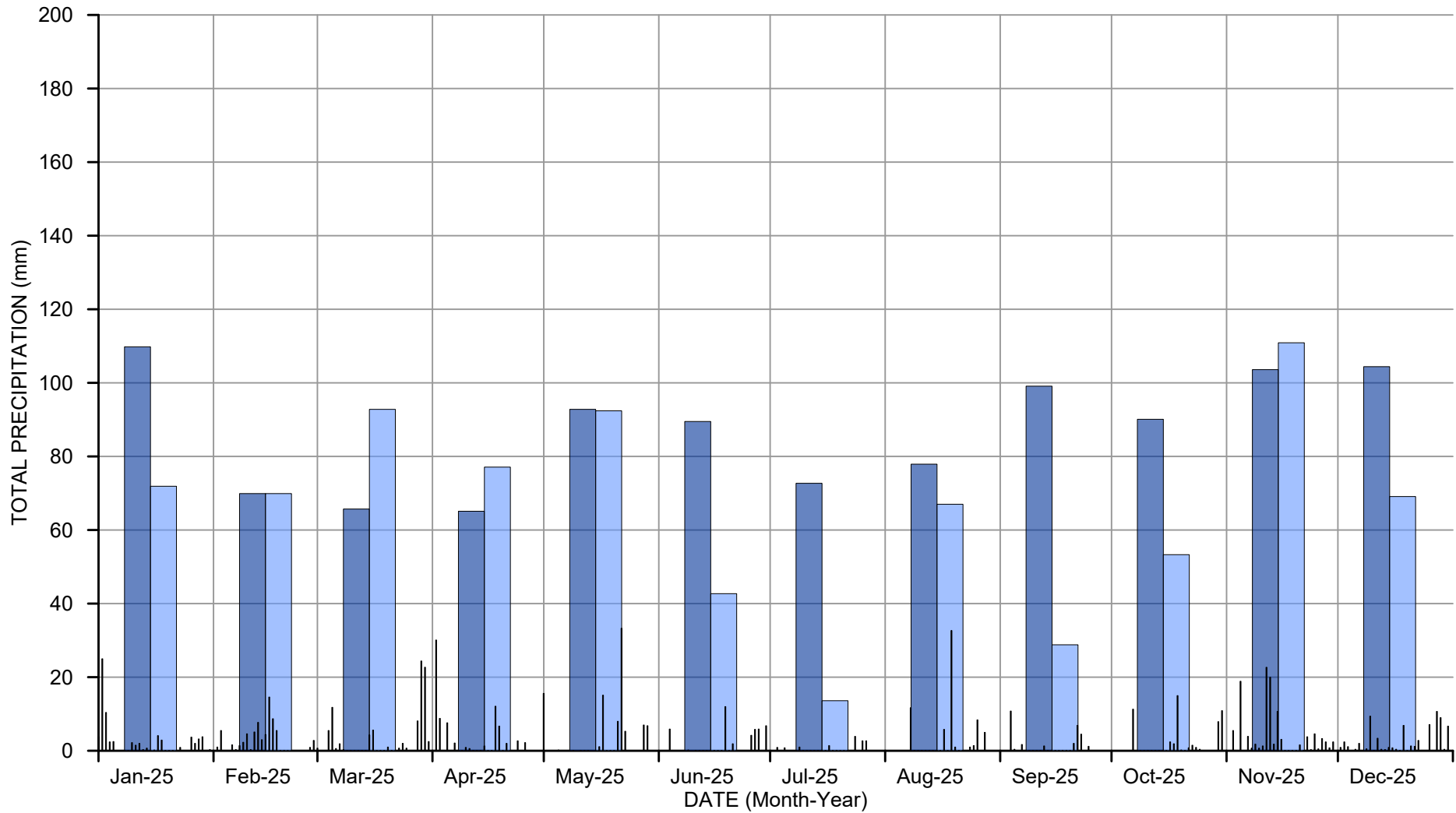


DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

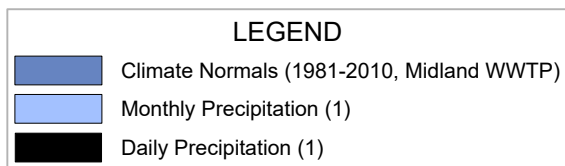
Project No. 11155365  
Date April 2026

MONITORING LOCATIONS

FIGURE 1.1



NOTE:  
 (1) Precipitation data obtained from Environment Canada Station #6111792 and/or #6117700.  
 (2) Climate Normal data obtained from Environment Canada Station #6115127; not available for Station #6111792 or #6117700.

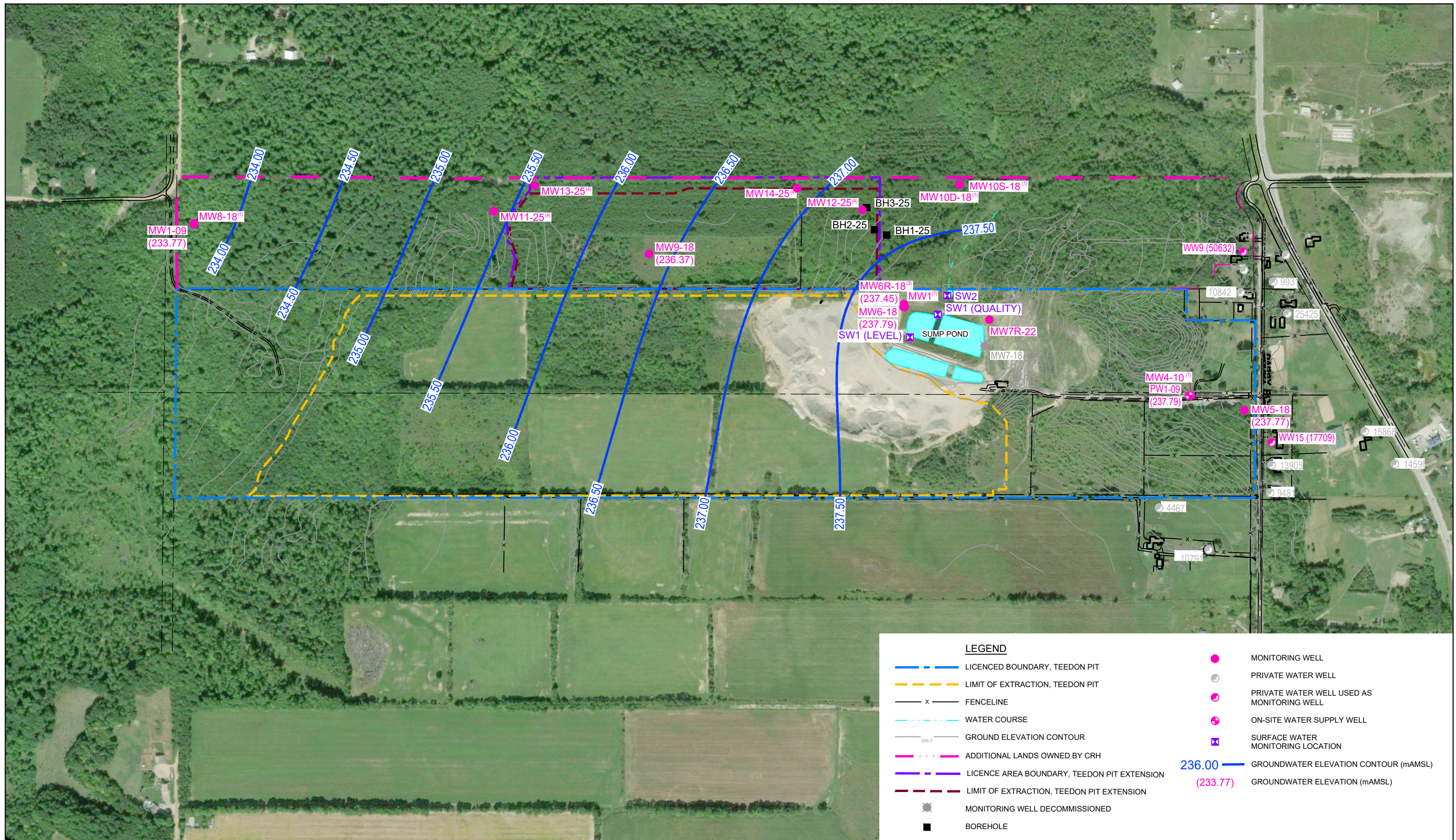


DUFFERIN AGGREGATES TEEDON PIT  
 TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

Project No. 11155365  
 Date April 13, 2026

2025 PRECIPITATION SUMMARY

FIGURE 4.1

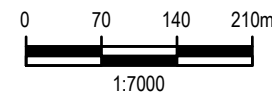


**LEGEND**

	LICENCED BOUNDARY, TEEDON PIT		MONITORING WELL
	LIMIT OF EXTRACTION, TEEDON PIT		PRIVATE WATER WELL
	FENCELINE		PRIVATE WATER WELL USED AS MONITORING WELL
	WATER COURSE		ON-SITE WATER SUPPLY WELL
	GROUND ELEVATION CONTOUR		SURFACE WATER MONITORING LOCATION
	ADDITIONAL LANDS OWNED BY CRH		236.00 GROUNDWATER ELEVATION CONTOUR (mAMSLS)
	LICENCE AREA BOUNDARY, TEEDON PIT EXTENSION		(233.77) GROUNDWATER ELEVATION (mAMSLS)
	LIMIT OF EXTRACTION, TEEDON PIT EXTENSION		
	MONITORING WELL DECOMMISSIONED		
	BOREHOLE		

**NOTES:**

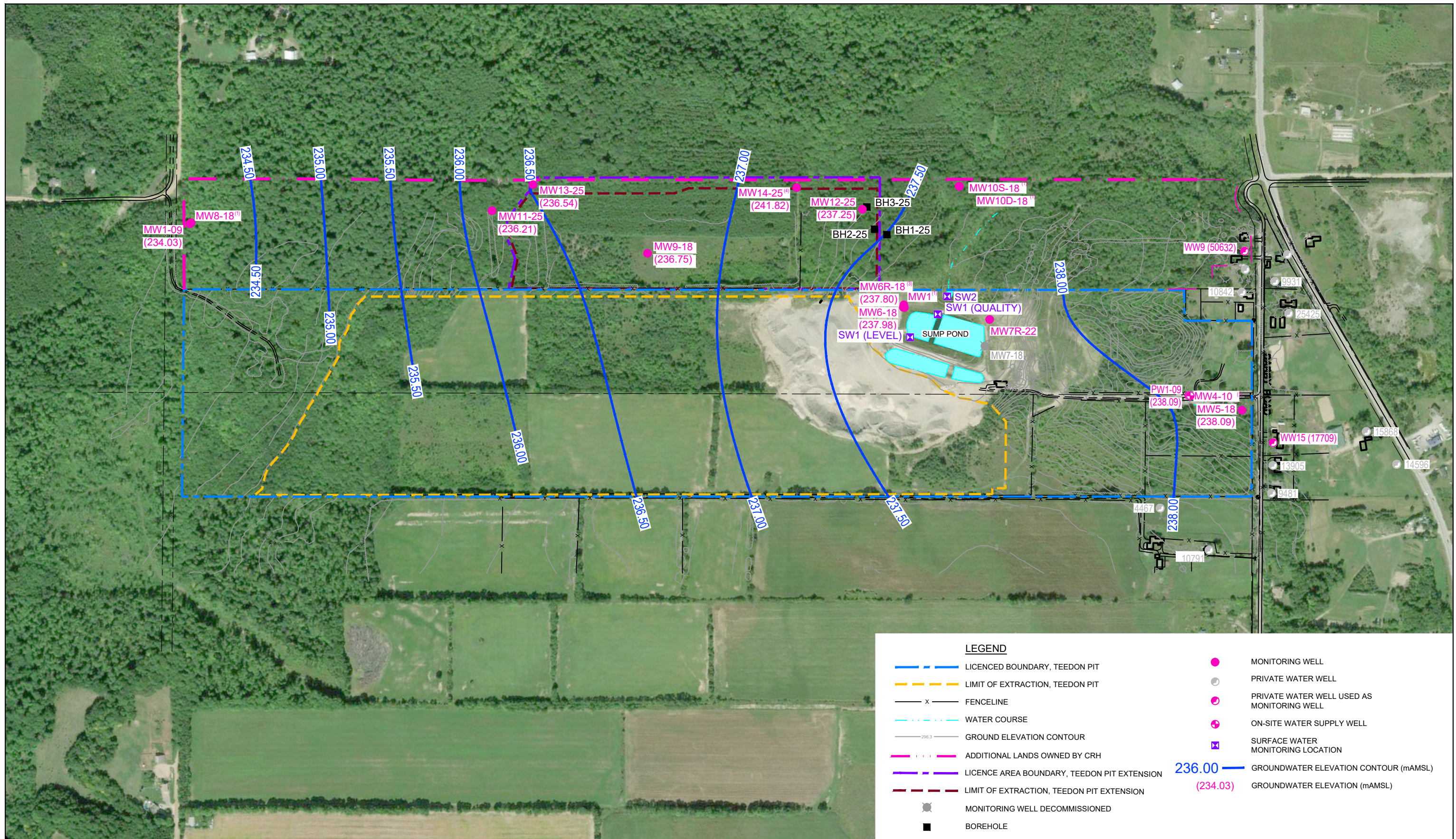
1. SHALLOW GROUNDWATER ELEVATIONS WERE NOT USED TO GENERATE THE GROUNDWATER CONTOURS.
2. DOMESTIC GROUNDWATER ELEVATIONS WERE NOT USED TO GENERATE THE GROUNDWATER CONTOURS.
3. MW6R-18 GROUNDWATER ELEVATION NOT USED AS IT IS LOCATED AT A SHALLOWER INTERVAL WITHIN THE UPPER AQUIFER.
4. LOCATION WAS NOT INSTALLED AT THE TIME OF MONITORING



DUFFERIN AGGREGATES TEEDON PIT  
 TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO  
**GROUNDWATER ELEVATION CONTOURS  
 UPPER AQUIFER  
 JANUARY 2025**

Project No. 11155365  
 Date April 2026

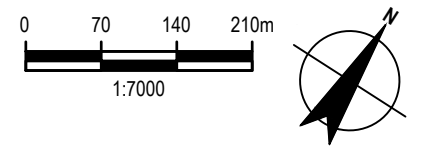
**FIGURE 4.2**



**LEGEND**

	LICENCED BOUNDARY, TEEDON PIT		MONITORING WELL
	LIMIT OF EXTRACTION, TEEDON PIT		PRIVATE WATER WELL
	FENCELINE		PRIVATE WATER WELL USED AS MONITORING WELL
	WATER COURSE		ON-SITE WATER SUPPLY WELL
	GROUND ELEVATION CONTOUR		SURFACE WATER MONITORING LOCATION
	ADDITIONAL LANDS OWNED BY CRH		GROUNDWATER ELEVATION CONTOUR (mAMSLL)
	LICENCE AREA BOUNDARY, TEEDON PIT EXTENSION		GROUNDWATER ELEVATION (mAMSLL)
	MONITORING WELL DECOMMISSIONED		
	BOREHOLE		

- NOTES:**
1. SHALLOW GROUNDWATER ELEVATIONS WERE NOT USED TO GENERATE THE GROUNDWATER CONTOURS.
  2. DOMESTIC GROUNDWATER ELEVATIONS WERE NOT USED TO GENERATE THE GROUNDWATER CONTOURS.
  3. MW6R-18 GROUNDWATER ELEVATION NOT USED AS IT IS LOCATED AT A SHALLOWER INTERVAL WITHIN THE UPPER AQUIFER.
  4. MW14-25 GROUNDWATER ELEVATION NOT USED AS IT IS LOCATED WITHIN AN ISOLATED SAND POCKET WITHIN THE AQUITARD.

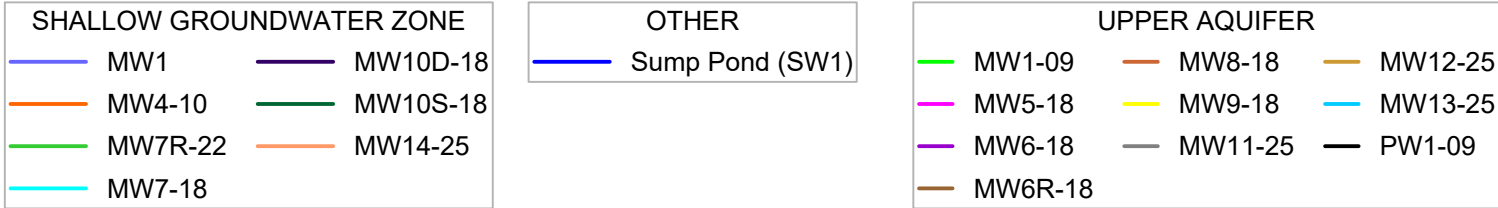
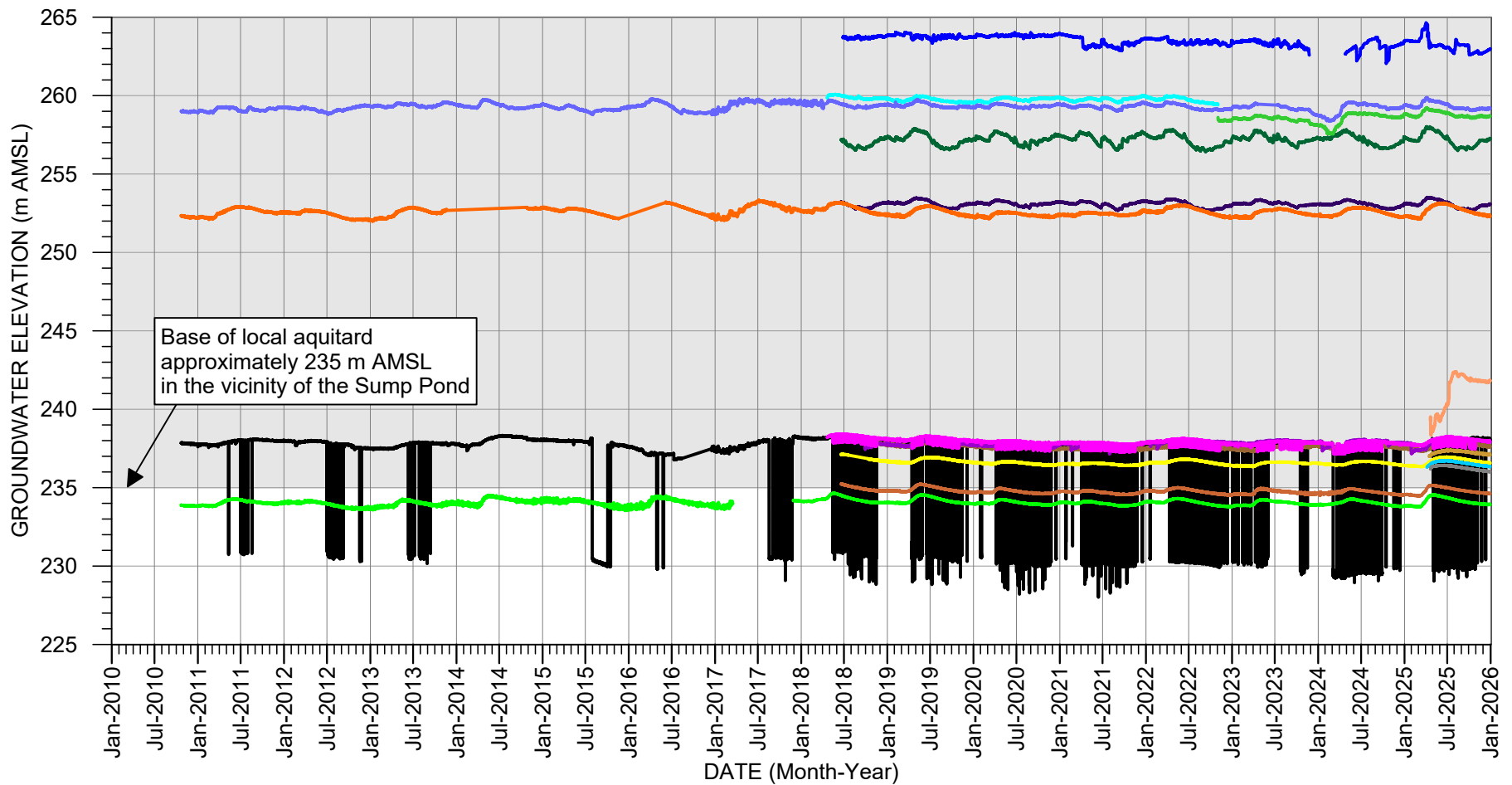


DUFFERIN AGGREGATES TEEDON PIT  
 TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

**GROUNDWATER ELEVATION CONTOURS  
 UPPER AQUIFER  
 OCTOBER 2025**

Project No. 11155365  
 Date April 2026

**FIGURE 4.3**

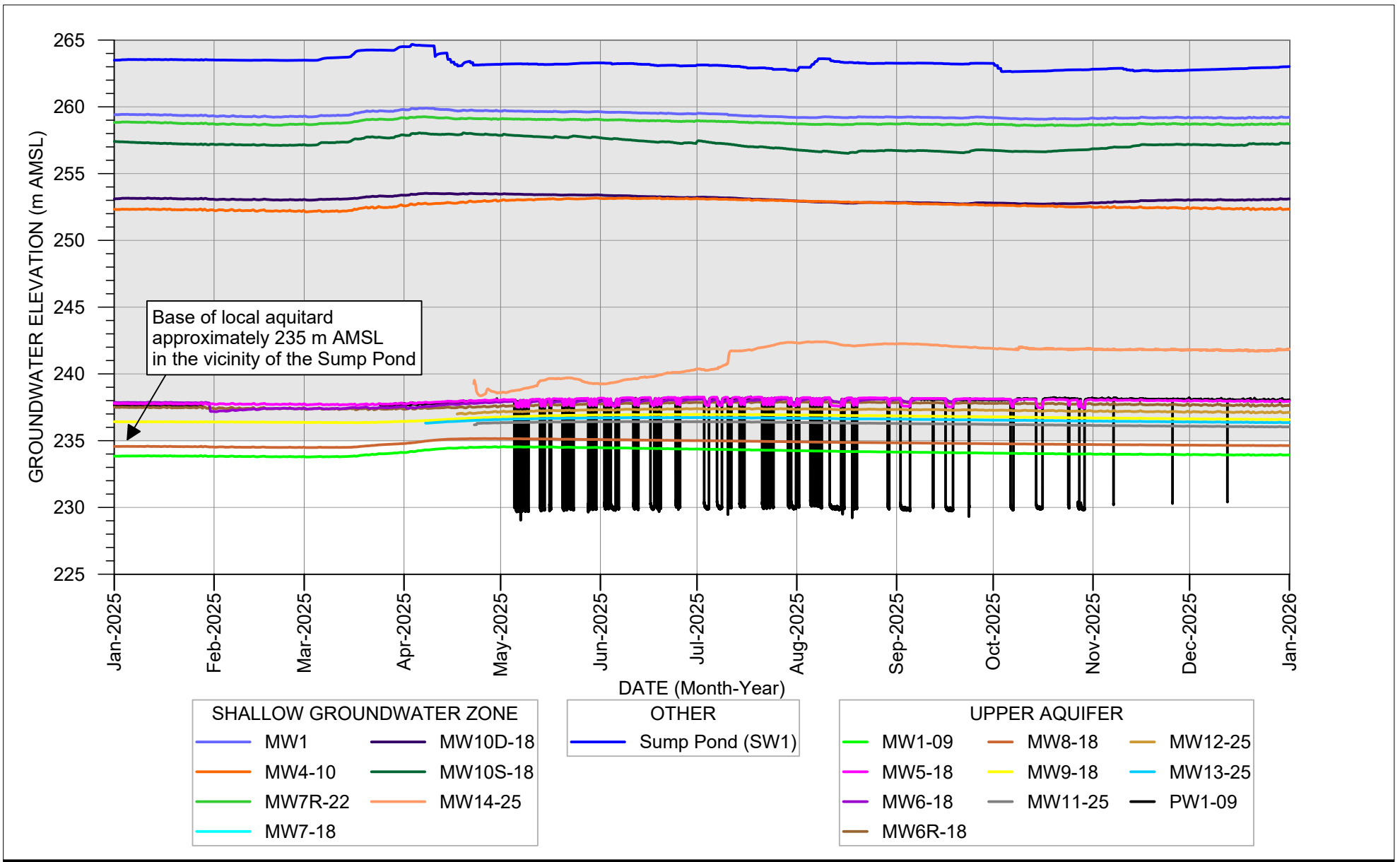


DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO  
2025 ANNUAL MONITORING REPORT

Project No. 11155365  
Date April 30, 2026

HYDROGRAPH - HISTORICAL  
GROUNDWATER ELEVATIONS

FIGURE 4.4



DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO  
2025 ANNUAL MONITORING REPORT

Project No. 11155365  
Date April 30, 2026

HYDROGRAPH  
2025 GROUNDWATER ELEVATIONS

FIGURE 4.5

# Tables

Table 4.1

**Monitoring Well Completion Details  
2025 Annual Monitoring Report  
Dufferin Aggregates Teedon Pit  
Township of Tiny, County of Simcoe, Ontario**

<b>Monitoring Well</b>	<b>MECP Well ID</b>	<b>Completion Date</b>	<b>Easting</b>	<b>Northing</b>	<b>Ground Elevation (m AMSL)</b>	<b>Reference Elevation (m AMSL)</b>	<b>Well Bottom Elevation (m AMSL)</b>	<b>Well Depth (m bgs)</b>
PW1-09 <sup>(2)</sup>	7124734	4/29/2009	592343.75	4945072.04	260.72	261.32	191.4	69.3
MW1 <sup>(2)</sup>	7054134	11/8/2007	591776.70	4944920.92	267.45	267.64	245.0	18.3
MW1-09 <sup>(5)</sup>	7124729	6/2/2009	590519.95	4944300.96	245.45	246.04	180.4	65.1
MW4-10 <sup>(2)</sup>	7150631	8/5/2010	592346.97	4945073.66	260.60	261.31	242.3	17.7
MW5-18 <sup>(3)</sup>	A241648	4/5/2018	592450.79	4945106.20	256.39	257.19	186.6	69.2
MW6-18 <sup>(3)</sup>	A241641	3/29/2018	591778.54	4944916.15	267.60	268.43	197.5	70.1
MW6R-18 <sup>(6)</sup>	A241645	10/2/2018	591780.60	4944916.96	267.57	268.20	218.8	48.8
MW7-18 <sup>(8)</sup>	A215946	4/9/2018	591953.92	4944937.13	266.83	267.56	242.8	24.1
MW7R-22 <sup>(7)</sup>	A211723	11/3/2022	591933.69	4944985.63	267.35	268.23	243.6	23.8
MW8-18 <sup>(5)</sup>	A242552	6/11/2018	590518.91	4944303.17	245.35	245.88	224.6	20.7
MW9-18 <sup>(4)</sup>	A242553	6/6/2018	591302.29	4944734.10	291.58	292.50	230.9	60.7
MW10S-18 <sup>(4)</sup>	A242554	6/6/2018	591743.06	4945177.24	259.44	260.42	248.8	10.7
MW10D-18 <sup>(4)</sup>	A242555	6/6/2018	591741.82	4945176.99	259.55	260.52	233.6	25.9
MW11-25 <sup>(9)</sup>	A341323	4/22/2025	591000.76	4944640.01	285.24	286.00	230.4	54.9
MW12-25 <sup>(9)</sup>	A341325	4/4/2025	591608.01	4945032.85	279.63	280.70	227.1	52.6
MW13-25 <sup>(9)</sup>	A341324	3/26/2025	591040.88	4944726.09	292.41	293.26	231.0	61.4
MW14-25 <sup>(9)</sup>	A341329	4/14/2025	591477.33	4944999.20	289.21	290.11	236.8	52.4

Table 4.1

**Monitoring Well Completion Details  
2025 Annual Monitoring Report  
Dufferin Aggregates Teedon Pit  
Township of Tiny, County of Simcoe, Ontario**

<b>Monitoring Well</b>	<b>MECP Well ID</b>	<b>Completion Date</b>	<b>Easting</b>	<b>Northing</b>	<b>Ground Elevation (m AMSL)</b>	<b>Reference Elevation (m AMSL)</b>	<b>Well Bottom Elevation (m AMSL)</b>	<b>Well Depth (m bgs)</b>
WW9 - #50632 <sup>(5)</sup>	7150632	8/4/2010	592280.17	4945366.28	260.48	261.12	181.3	79.2
WW15 - #17709 <sup>(5)</sup>	5717709	9/23/1981	592521.69	4945085.40	256.73	257.27	198.0	57.9
#16440 <sup>(1)</sup>	5716440	11/8/1979	591461.00	4944573.00	293.00	293.00	252.3	42.7

## Notes:

- (1) Installed as a test well and was decommissioned shortly after construction; survey details from Site Plans.
- (2) Northing, eastings, ground elevation and reference elevation measured on March 15, 2018.
- (3) Northing, eastings, ground elevation and reference elevation measured on April 18, 2018.
- (4) Northing, eastings, ground elevation and reference elevation measured on June 13, 2018.
- (5) Northing, eastings, ground elevation and reference elevation measured on July 19, 2018.
- (6) Northing, eastings, ground elevation and reference elevation measured on October 11, 2018.
- (7) Northing, eastings, ground elevation and reference elevation measured on November 29, 2022.
- (8) MW7-18 abandoned on November 3, 2022 and replace with MW7R-22.
- (9) Northing, eastings, ground elevation and reference elevation measured on May 6, 2025
- m AMSL Metres above mean sea level.
- m bgs Metres below ground surface.
- NA Information not available.

Table 4.2

**Summary of 2025 Groundwater Elevations  
2025 Annual Monitoring Report  
Dufferin Aggregates Teedon Pit  
Township of Tiny, County of Simcoe, Ontario**

<b>Well Location</b>	<b>January 30, 2025 Groundwater Elevation (m AMSL)</b>	<b>April 1-2, 2025 Groundwater Elevation (m AMSL)</b>	<b>July 10, 2025 Groundwater Elevation (m AMSL)</b>	<b>October 8, 2025 Groundwater Elevation (m AMSL)</b>
PW1-09	237.63	237.70	238.19	238.09
MW1	--	259.90	259.55	259.27
MW1-09	233.77	234.12	234.32	234.03
MW4-10	252.23	252.61	253.08	252.59
MW5-18	237.43	237.77	238.26	238.09
MW6-18	237.79	237.55	238.03	237.98
MW6R-18	237.45	237.45	237.91	237.80
MW7R-22	258.72	259.18	258.91	258.65
MW8-18	234.53	234.84	235.02	234.78
MW9-18	236.37	236.47	236.92	236.75
MW10S-18	257.16	257.85	257.21	256.66
MW10D-18	253.07	253.41	253.21	252.77
MW11-25	*	*	236.40	236.21
MW12-25	*	*	237.38	237.25
MW13-25	*	*	236.72	236.54
MW14-25	*	*	240.76	241.82
WW9 - #50632	229.40	216.11	227.64	225.02
WW15 - #17709	237.17	237.83	238.12	237.90

## Notes:

m AMSL

Metres above mean sea level

--

No measurement recorded

\*

Well not constructed and/or developed during the event

Table 5.1

**Water Taking Summary (PTTW No. 6258 BRDJ2M) and Sump Pond Water Levels  
2025 Annual Monitoring Report  
Dufferin Aggregates Teedon Pit  
Township of Tiny, County of Simcoe, Ontario**

Date	PW1-09		Sump Pond				Comments	
	Rate of Taking (L/min)	Amount of Taking (L/day)	Hours of Taking	Rate of Taking (L/min)	Amount of Taking (L/day)	Start of Day SW1 Elevation (m AMSL)		End of Day SW1 Elevation (m AMSL)
Weekends shown in gray for reference								
<b>NO WATER TAKING IN JANUARY OR MARCH 2025</b>								
Tuesday April 01 2025	-	-	-	-	-	265.38	-	-
Wednesday April 02 2025	-	-	-	-	-	265.39	-	-
Thursday April 03 2025	-	-	-	-	-	265.55	-	- Overflow observed and reported to MECP
Friday April 04 2025	-	-	-	-	-	265.50	-	- Sump Pond Overflow Continued
Saturday April 05 2025	-	-	-	-	-	-	-	-
Sunday April 06 2025	-	-	-	-	-	-	-	-
Monday April 07 2025	-	-	-	-	-	265.46	-	- Sump Pond Overflow Continued
Tuesday April 08 2025	-	-	-	-	-	265.45	-	-
Wednesday April 09 2025	-	-	-	-	-	265.44	-	- Sump Pond Pump Installed
Thursday April 10 2025	-	-	7.02	1,488.0	626,466	265.44	264.58	- Start of Taking (Sump Pond)
Friday April 11 2025	-	-	-	-	-	264.75	264.77	-
Saturday April 12 2025	-	-	-	-	-	-	-	-
Sunday April 13 2025	-	-	-	-	-	-	-	-
Monday April 14 2025	-	-	3.28	1,329.6	261,928	264.85	264.36	-
Tuesday April 15 2025	-	-	1.85	1,059.7	117,632	264.39	264.15	-
Wednesday April 16 2025	-	-	1.25	1,195.8	89,687	264.17	263.99	-
Thursday April 17 2025	-	-	0.70	1,293.6	54,331	264.00	263.88	-
Friday April 18 2025	-	-	-	-	-	-	-	-
Saturday April 19 2025	-	-	-	-	-	-	-	-
Sunday April 20 2025	-	-	-	-	-	-	-	-
Monday April 21 2025	-	-	0.88	1,031.4	54,665	264.22	264.13	-
Tuesday April 22 2025	-	-	1.40	1,060.4	89,071	264.14	263.96	-
Wednesday April 23 2025	-	-	0.18	599.0	6,589	263.96	263.95	-
Thursday April 24 2025	-	-	-	-	-	-	-	-
Friday April 25 2025	-	-	0.12	714.6	5,002	-	-	- Statutory Holiday
Saturday April 26 2025	-	-	-	-	-	-	-	-
Sunday April 27 2025	-	-	-	-	-	-	-	-
Monday April 28 2025	-	-	-	-	-	263.99	264.00	- Start of aggregate washing for season
Tuesday April 29 2025	-	-	-	-	-	264.00	264.00	-
Wednesday April 30 2025	-	-	-	-	-	264.00	264.00	-
Thursday May 01 2025	-	-	-	-	-	264.00	264.01	-
Friday May 02 2025	-	-	-	-	-	264.03	264.03	-
Saturday May 03 2025	-	-	-	-	-	-	-	-
Sunday May 04 2025	-	-	-	-	-	-	-	-
Monday May 05 2025	454.9	262,909	-	-	-	264.04	264.04	- Start of Taking (PW1-09)

Table 5.1

**Water Taking Summary (PTTW No. 6258 BRDJ2M) and Sump Pond Water Levels  
2025 Annual Monitoring Report  
Dufferin Aggregates Teedon Pit  
Township of Tiny, County of Simcoe, Ontario**

Date	PW1-09		Sump Pond					Comments
	Rate of Taking (L/min)	Amount of Taking (L/day)	Hours of Taking	Rate of Taking (L/min)	Amount of Taking (L/day)	Start of Day SW1 Elevation (m AMSL)	End of Day SW1 Elevation (m AMSL)	
Weekends shown in gray for reference								
Tuesday May 06 2025	285.6	253,322	-	-	-	264.04	264.04	-
Wednesday May 07 2025	354.4	255,136	0.13	532.7	4,262	264.04	264.03	-
Thursday May 08 2025	353.5	254,531	-	-	-	264.03	264.03	-
Friday May 09 2025	353.1	254,263	0.22	751.7	9,772	264.04	264.02	-
Saturday May 10 2025	-	-	-	-	-	-	-	-
Sunday May 11 2025	-	-	-	-	-	-	-	-
Monday May 12 2025	-	-	0.32	685.9	13,032	264.02	264.00	-
Tuesday May 13 2025	352.8	254,017	-	-	-	264.00	264.00	-
Wednesday May 14 2025	352.4	253,740	0.08	1,177.2	5,886	264.00	263.99	-
Thursday May 15 2025	-	-	-	-	-	263.99	263.99	-
Friday May 16 2025	349.5	251,622	-	-	-	263.99	263.99	-
Saturday May 17 2025	-	-	-	-	-	-	-	-
Sunday May 18 2025	-	-	-	-	-	-	-	-
Monday May 19 2025	-	-	-	-	-	-	-	Statutory Holiday
Tuesday May 20 2025	347.1	249,912	-	-	-	264.01	264.01	-
Wednesday May 21 2025	355.2	252,176	-	-	-	264.01	264.01	-
Thursday May 22 2025	350.2	252,140	-	-	-	264.03	264.03	-
Friday May 23 2025	346.9	249,776	-	-	-	264.03	264.03	-
Saturday May 24 2025	-	-	-	-	-	-	-	-
Sunday May 25 2025	-	-	-	-	-	-	-	-
Monday May 26 2025	-	-	-	-	-	264.08	264.08	-
Tuesday May 27 2025	-	-	-	-	-	264.09	264.09	-
Wednesday May 28 2025	400.9	288,640	-	-	-	264.09	264.09	-
Thursday May 29 2025	373.1	291,013	-	-	-	264.10	264.10	-
Friday May 30 2025	375.9	283,812	-	-	-	264.10	264.10	-
Saturday May 31 2025	-	-	-	-	-	-	-	-
Sunday June 01 2025	-	-	-	-	-	-	-	-
Monday June 02 2025	377.0	269,956	0.08	1,345.2	6,726	264.11	264.09	-
Tuesday June 03 2025	377.2	286,258	-	-	-	264.09	264.09	-
Wednesday June 04 2025	360.0	404,609	0.32	1,512.3	28,734	264.09	264.03	-
Thursday June 05 2025	396.7	404,609	-	-	-	264.04	264.05	-
Friday June 06 2025	374.3	269,119	0.08	1,031.4	5,157	264.06	264.05	-
Saturday June 07 2025	-	-	-	-	-	-	-	-
Sunday June 08 2025	-	-	-	-	-	-	-	-
Monday June 09 2025	-	-	-	-	-	264.06	264.06	-
Tuesday June 10 2025	-	-	-	-	-	264.06	264.06	-

Table 5.1

**Water Taking Summary (PTTW No. 6258 BRDJ2M) and Sump Pond Water Levels  
2025 Annual Monitoring Report  
Dufferin Aggregates Teedon Pit  
Township of Tiny, County of Simcoe, Ontario**

Date	PW1-09		Sump Pond					Comments
	Rate of Taking (L/min)	Amount of Taking (L/day)	Hours of Taking	Rate of Taking (L/min)	Amount of Taking (L/day)	Start of Day SW1 Elevation (m AMSL)	End of Day SW1 Elevation (m AMSL)	
Weekends shown in gray for reference								
Wednesday June 11 2025	377.8	277,666	0.12	1,362.3	9,536	264.06	264.04	-
Thursday June 12 2025	374.1	300,019	0.15	1,021.4	9,193	264.04	264.01	-
Friday June 13 2025	-	-	0.07	2,973.3	11,893	264.01	264.00	-
Saturday June 14 2025	-	-	-	-	-	-	-	-
Sunday June 15 2025	-	-	-	-	-	-	-	-
Monday June 16 2025	496.4	323,657	0.15	1,339.8	12,058	263.99	263.96	-
Tuesday June 17 2025	303.3	323,657	0.17	1,293.4	12,934	263.96	263.92	-
Wednesday June 18 2025	372.8	296,346	0.13	1,220.4	9,763	263.93	263.90	-
Thursday June 19 2025	373.1	297,364	-	-	-	263.91	263.91	-
Friday June 20 2025	-	-	-	-	-	263.92	263.92	-
Saturday June 21 2025	-	-	-	-	-	-	-	-
Sunday June 22 2025	-	-	-	-	-	-	-	-
Monday June 23 2025	-	-	-	-	-	263.93	263.93	-
Tuesday June 24 2025	374.7	197,078	0.13	1,020.4	8,163	263.93	263.91	-
Wednesday June 25 2025	374.3	279,248	0.17	1,185.9	11,859	263.91	263.88	-
Thursday June 26 2025	-	-	-	-	-	263.88	263.88	-
Friday June 27 2025	-	-	-	-	-	263.89	263.89	-
Saturday June 28 2025	-	-	-	-	-	-	-	-
Sunday June 29 2025	-	-	-	-	-	-	-	-
Monday June 30 2025	-	-	-	-	-	263.90	263.91	-
Tuesday July 01 2025	-	-	-	-	-	-	-	- Statutory Holiday
Wednesday July 02 2025	-	-	-	-	-	263.94	263.94	-
Thursday July 03 2025	361.6	403,165	-	-	-	263.95	263.95	-
Friday July 04 2025	394.1	403,165	0.15	1,274.8	11,473	263.95	263.92	-
Saturday July 05 2025	-	-	-	-	-	-	-	-
Sunday July 06 2025	-	-	-	-	-	-	-	-
Monday July 07 2025	384.6	431,879	0.08	933.2	4,666	263.93	263.91	-
Tuesday July 08 2025	368.3	390,409	0.07	1,247.3	4,989	263.91	263.90	-
Wednesday July 09 2025	-	-	0.05	1,410.0	4,230	263.90	263.89	-
Thursday July 10 2025	436.2	248,212	0.08	1,409.8	7,049	263.89	263.88	-
Friday July 11 2025	333.8	249,994	0.15	1,252.8	11,275	263.88	263.85	-
Saturday July 12 2025	-	-	-	-	-	-	-	-
Sunday July 13 2025	-	-	-	-	-	-	-	-
Monday July 14 2025	374.1	278,348	0.18	1,363.3	14,996	263.85	263.81	-
Tuesday July 15 2025	369.9	277,807	0.15	1,211.8	10,906	263.81	263.78	-
Wednesday July 16 2025	-	-	0.28	1,255.6	21,346	263.78	263.72	-

Table 5.1

**Water Taking Summary (PTTW No. 6258 BRDJ2M) and Sump Pond Water Levels  
2025 Annual Monitoring Report  
Dufferin Aggregates Teedon Pit  
Township of Tiny, County of Simcoe, Ontario**

Date	PW1-09		Sump Pond				Comments	
	Rate of Taking (L/min)	Amount of Taking (L/day)	Hours of Taking	Rate of Taking (L/min)	Amount of Taking (L/day)	Start of Day SW1 Elevation (m AMSL)		End of Day SW1 Elevation (m AMSL)
Weekends shown in gray for reference								
Thursday July 17 2025	-	-	-	-	-	263.72	263.72	-
Friday July 18 2025	-	-	-	-	-	263.72	263.72	-
Saturday July 19 2025	-	-	-	-	-	-	-	-
Sunday July 20 2025	-	-	-	-	-	-	-	-
Monday July 21 2025	375.5	315,426	-	-	-	263.73	263.73	-
Tuesday July 22 2025	374.3	302,406	0.13	1,487.1	11,897	263.73	263.70	-
Wednesday July 23 2025	400.0	275,625	0.07	1,140.2	4,561	263.70	263.68	-
Thursday July 24 2025	367.0	301,660	0.37	1,350.3	29,706	263.68	263.61	-
Friday July 25 2025	-	-	-	-	-	263.62	263.62	-
Saturday July 26 2025	-	-	-	-	-	-	-	-
Sunday July 27 2025	-	-	-	-	-	-	-	-
Monday July 28 2025	-	-	0.18	1,485.2	16,337	263.63	263.58	-
Tuesday July 29 2025	373.7	292,609	0.18	1,271.6	13,988	263.58	263.57	-
Wednesday July 30 2025	376.7	409,148	-	-	-	263.57	263.57	-
Thursday July 31 2025	374.3	408,712	0.13	2,000.4	16,003	263.57	263.52	-
Friday August 01 2025	372.9	276,693	-	-	-	263.52	263.78	-
Saturday August 02 2025	-	-	-	-	-	-	-	-
Sunday August 03 2025	-	-	-	-	-	-	-	-
Monday August 04 2025	-	-	-	-	-	-	-	- Statutory Holiday
Tuesday August 05 2025	371.2	272,097	-	-	-	263.79	264.00	-
Wednesday August 06 2025	350.4	281,708	-	-	-	264.00	264.21	-
Thursday August 07 2025	373.3	275,475	-	-	-	264.21	264.42	-
Friday August 08 2025	380.1	297,628	-	-	-	264.42	264.42	-
Saturday August 09 2025	-	-	-	-	-	-	-	-
Sunday August 10 2025	-	-	-	-	-	-	-	-
Monday August 11 2025	404.8	454,609	0.73	1,503.8	66,168	264.40	264.25	-
Tuesday August 12 2025	379.4	545,531	0.20	1,376.5	16,518	264.25	264.21	-
Wednesday August 13 2025	379.4	545,531	-	-	-	264.21	264.21	-
Thursday August 14 2025	350.2	384,831	0.18	1,455.6	16,012	264.21	264.17	-
Friday August 15 2025	387.5	311,935	0.15	930.9	8,378	264.17	264.14	-
Saturday August 16 2025	-	-	-	-	-	-	-	-
Sunday August 17 2025	-	-	-	-	-	-	-	-
Monday August 18 2025	368.0	304,311	0.12	1,416.0	9,912	264.14	264.11	-
Tuesday August 19 2025	377.9	261,496	-	-	-	264.11	264.11	-
Wednesday August 20 2025	-	-	0.25	1,030.5	15,458	264.11	264.09	-
Thursday August 21 2025	-	-	-	-	-	264.09	264.09	-

Table 5.1

**Water Taking Summary (PTTW No. 6258 BRDJ2M) and Sump Pond Water Levels  
2025 Annual Monitoring Report  
Dufferin Aggregates Teedon Pit  
Township of Tiny, County of Simcoe, Ontario**

Date	PW1-09		Hours of Taking	Rate of Taking (L/min)	Amount of Taking (L/day)	Sump Pond		Comments
	Rate of Taking (L/min)	Amount of Taking (L/day)				Start of Day SW1 Elevation (m AMSL)	End of Day SW1 Elevation (m AMSL)	
Weekends shown in gray for reference								
Friday August 22 2025	-	-	0.13	1,421.4	11,371	264.09	264.07	-
Saturday August 23 2025	-	-	-	-	-	-	-	-
Sunday August 24 2025	-	-	-	-	-	-	-	-
Monday August 25 2025	-	-	-	-	-	264.06	264.06	-
Tuesday August 26 2025	-	-	-	-	-	264.07	264.07	-
Wednesday August 27 2025	-	-	-	-	-	264.07	264.07	-
Thursday August 28 2025	-	-	-	-	-	264.07	264.09	-
Friday August 29 2025	379.1	268,374	-	-	-	264.09	264.09	-
Saturday August 30 2025	-	-	-	-	-	-	-	-
Sunday August 31 2025	-	-	-	-	-	-	-	-
Monday September 01 2025	-	-	-	-	-	-	-	Statutory Holiday
Tuesday September 02 2025	395.7	454,609	-	-	-	264.08	264.08	-
Wednesday September 03 2025	404.7	581,900	-	-	-	264.08	264.08	-
Thursday September 04 2025	443.8	585,432	-	-	-	264.08	264.09	-
Friday September 05 2025	-	-	-	-	-	264.09	264.09	-
Saturday September 06 2025	-	-	-	-	-	-	-	-
Sunday September 07 2025	-	-	-	-	-	-	-	-
Monday September 08 2025	-	-	-	-	-	264.09	264.09	-
Tuesday September 09 2025	-	-	-	-	-	264.09	264.09	-
Wednesday September 10 2025	-	-	-	-	-	264.09	264.09	-
Thursday September 11 2025	-	-	-	-	-	264.09	264.08	-
Friday September 12 2025	390.7	13,284	0.08	1,098.0	5,490	264.08	264.07	-
Saturday September 13 2025	-	-	-	-	-	-	-	-
Sunday September 14 2025	-	-	-	-	-	-	-	-
Monday September 15 2025	-	-	0.10	995.8	5,975	264.07	264.05	-
Tuesday September 16 2025	358.0	409,148	-	-	-	264.05	264.05	-
Wednesday September 17 2025	408.3	587,191	0.08	1,261.4	6,307	264.05	264.03	-
Thursday September 18 2025	365.6	272,765	-	-	-	264.03	264.03	-
Friday September 19 2025	-	-	-	-	-	264.03	264.03	-
Saturday September 20 2025	-	-	-	-	-	-	-	-
Sunday September 21 2025	-	-	-	-	-	-	-	-
Monday September 22 2025	-	-	-	-	-	264.02	264.02	-
Tuesday September 23 2025	315.4	56,458	-	-	-	264.03	264.07	-
Wednesday September 24 2025	-	-	-	-	-	264.08	264.08	-
Thursday September 25 2025	-	-	-	-	-	264.08	264.07	-
Friday September 26 2025	-	-	-	-	-	264.08	264.09	-

Table 5.1

**Water Taking Summary (PTTW No. 6258 BRDJ2M) and Sump Pond Water Levels  
2025 Annual Monitoring Report  
Dufferin Aggregates Teedon Pit  
Township of Tiny, County of Simcoe, Ontario**

Date	PW1-09		Hours of Taking	Rate of Taking (L/min)	Amount of Taking (L/day)	Sump Pond		Comments
	Rate of Taking (L/min)	Amount of Taking (L/day)				Start of Day SW1 Elevation (m AMSL)	End of Day SW1 Elevation (m AMSL)	
Weekends shown in gray for reference								
Saturday September 27 2025	-	-	-	-	-	-	-	-
Sunday September 28 2025	-	-	-	-	-	-	-	-
Monday September 29 2025	-	-	-	-	-	264.08	264.08	-
Tuesday September 30 2025	-	-	-	-	-	264.08	264.08	-
Wednesday October 01 2025	-	-	1.42	798.4	67,867	263.97	263.90	-
Thursday October 02 2025	-	-	2.00	777.0	93,242	263.90	263.70	-
Friday October 03 2025	-	-	2.03	798.4	97,403	263.70	263.50	-
Saturday October 04 2025	-	-	-	-	-	-	-	-
Sunday October 05 2025	-	-	-	-	-	-	-	-
Monday October 06 2025	739.0	639,969	0.20	847.3	10,167	263.48	263.46	- Installed new flow meter at PW1-08
Tuesday October 07 2025	721.3	306,542	-	-	-	263.46	263.46	-
Wednesday October 08 2025	-	-	-	-	-	263.46	263.45	-
Thursday October 09 2025	-	-	-	-	-	263.45	263.46	-
Friday October 10 2025	-	-	-	-	-	263.46	263.46	-
Saturday October 11 2025	-	-	-	-	-	-	-	-
Sunday October 12 2025	-	-	-	-	-	-	-	-
Monday October 13 2025	-	-	-	-	-	-	-	- Statutory Holiday
Tuesday October 14 2025	726.7	703,458	-	-	-	263.48	263.48	-
Wednesday October 15 2025	730.2	1,050,000	-	-	-	263.48	263.48	-
Thursday October 16 2025	746.2	344,009	-	-	-	263.49	263.49	-
Friday October 17 2025	-	-	-	-	-	263.49	263.50	-
Saturday October 18 2025	-	-	-	-	-	-	-	-
Sunday October 19 2025	-	-	-	-	-	-	-	-
Monday October 20 2025	-	-	-	-	-	263.55	263.55	-
Tuesday October 21 2025	-	-	-	-	-	263.55	263.55	-
Wednesday October 22 2025	-	-	-	-	-	263.55	263.55	-
Thursday October 23 2025	-	-	-	-	-	263.58	263.58	-
Friday October 24 2025	757.4	303,718	-	-	-	263.59	263.59	-
Saturday October 25 2025	-	-	-	-	-	-	-	-
Sunday October 26 2025	-	-	-	-	-	-	-	-
Monday October 27 2025	669.2	481,796	-	-	-	263.59	263.59	-
Tuesday October 28 2025	750.9	850,000	0.05	885.3	2,656	263.59	263.59	-
Wednesday October 29 2025	718.0	379,835	-	-	-	263.59	263.59	-
Thursday October 30 2025	-	-	-	-	-	263.59	263.60	-
Friday October 31 2025	-	-	-	-	-	263.61	263.63	-
Saturday November 01 2025	-	-	-	-	-	-	-	-

Table 5.1

**Water Taking Summary (PTTW No. 6258 BRDJ2M) and Sump Pond Water Levels  
2025 Annual Monitoring Report  
Dufferin Aggregates Teedon Pit  
Township of Tiny, County of Simcoe, Ontario**

Date	PW1-09		Sump Pond				Comments
	Rate of Taking (L/min)	Amount of Taking (L/day)	Hours of Taking	Rate of Taking (L/min)	Amount of Taking (L/day)	Start of Day SW1 Elevation (m AMSL)	
Weekends shown in gray for reference							
Sunday November 02 2025	-	-	-	-	-	-	-
Monday November 03 2025	-	-	-	-	-	263.64	263.65
Tuesday November 04 2025	-	-	-	-	-	263.65	263.65
Wednesday November 05 2025	-	-	-	-	-	263.65	263.68
Thursday November 06 2025	-	-	-	-	-	263.69	263.69
Friday November 07 2025	707.2	20,510	-	-	-	263.69	263.69
Saturday November 08 2025	-	-	-	-	-	-	-
Sunday November 09 2025	-	-	-	-	-	-	-
Monday November 10 2025	-	-	0.55	866.9	28,608	263.70	263.63
Tuesday November 11 2025	-	-	0.57	841.0	28,595	263.64	263.58
Wednesday November 12 2025	-	-	0.33	769.0	15,380	263.58	263.58
Thursday November 13 2025	-	-	0.45	1,259.3	34,001	263.58	263.58
Friday November 14 2025	-	-	-	-	-	263.52	263.52
Saturday November 15 2025	-	-	-	-	-	-	-
Sunday November 16 2025	-	-	-	-	-	-	-
Monday November 17 2025	-	-	0.08	759.6	3,798	263.56	263.55
Tuesday November 18 2025	-	-	0.22	1,014.8	13,193	263.56	263.52
Wednesday November 19 2025	-	-	0.18	863.5	9,498	263.53	263.50
Thursday November 20 2025	-	-	0.08	759.0	3,795	263.50	263.49
Friday November 21 2025	-	-	-	-	-	263.50	263.50
Saturday November 22 2025	-	-	-	-	-	-	-
Sunday November 23 2025	-	-	-	-	-	-	-
Monday November 24 2025	-	-	0.07	1,105.3	4,421	263.54	263.53
Tuesday November 25 2025	701.6	21,048	0.15	762.7	6,864	263.53	263.51
Wednesday November 26 2025	-	-	-	-	-	263.52	263.53
Thursday November 27 2025	-	-	0.08	833.0	4,165	263.54	263.53
Friday November 28 2025	-	-	-	-	-	263.54	263.54
Saturday November 29 2025	-	-	-	-	-	-	-
Sunday November 30 2025	-	-	-	-	-	-	-
Monday December 01 2025	-	-	-	-	-	263.58	263.59
Tuesday December 02 2025	-	-	-	-	-	263.59	263.59
Wednesday December 03 2025	-	-	-	-	-	263.59	263.59
Thursday December 04 2025	-	-	-	-	-	263.60	263.60
Friday December 05 2025	-	-	-	-	-	263.60	263.60
Saturday December 06 2025	-	-	-	-	-	-	-
Sunday December 07 2025	-	-	-	-	-	-	-

Table 5.1

**Water Taking Summary (PTTW No. 6258 BRDJ2M) and Sump Pond Water Levels  
2025 Annual Monitoring Report  
Dufferin Aggregates Teedon Pit  
Township of Tiny, County of Simcoe, Ontario**

Date	PW1-09		Sump Pond				Comments	
	Rate of Taking (L/min)	Amount of Taking (L/day)	Hours of Taking	Rate of Taking (L/min)	Amount of Taking (L/day)	Start of Day SW1 Elevation (m AMSL)		End of Day SW1 Elevation (m AMSL)
Weekends shown in gray for reference								
Monday December 08 2025	-	-	-	-	-	-	-	- Sump Pond Frozen
Tuesday December 09 2025	-	-	-	-	-	-	-	- Sump Pond Frozen
Wednesday December 10 2025	-	-	-	-	-	-	-	- Sump Pond Frozen
Thursday December 11 2025	-	-	-	-	-	-	-	- Sump Pond Frozen
Friday December 12 2025	657.5	19,725	-	-	-	-	-	- Operations Water Use (PW1-09)
Saturday December 13 2025	-	-	-	-	-	-	-	-
Sunday December 14 2025	-	-	-	-	-	-	-	-
Monday December 15 2025	-	-	-	-	-	-	-	- Sump Pond Frozen
Tuesday December 16 2025	-	-	-	-	-	-	-	- Sump Pond Frozen
Wednesday December 17 2025	-	-	-	-	-	-	-	- Sump Pond Frozen
Thursday December 18 2025	-	-	-	-	-	-	-	- Sump Pond Frozen
Friday December 19 2025	-	-	-	-	-	-	-	- Sump Pond Frozen
Saturday December 20 2025	-	-	-	-	-	-	-	-
Sunday December 21 2025	-	-	-	-	-	-	-	-
Monday December 22 2025	-	-	-	-	-	-	-	- Sump Pond Frozen
Tuesday December 23 2025	-	-	-	-	-	-	-	- Sump Pond Frozen
Wednesday December 24 2025	-	-	-	-	-	-	-	- Sump Pond Frozen
Thursday December 25 2025	-	-	-	-	-	-	-	- Sump Pond Frozen
Friday December 26 2025	-	-	-	-	-	-	-	- Sump Pond Frozen
Saturday December 27 2025	-	-	-	-	-	-	-	-
Sunday December 28 2025	-	-	-	-	-	-	-	-
Monday December 29 2025	-	-	-	-	-	-	-	- Sump Pond Frozen
Tuesday December 30 2025	-	-	-	-	-	-	-	- Sump Pond Frozen
Wednesday December 31 2025	-	-	-	-	-	-	-	- Sump Pond Frozen



# Appendices

# Appendix A

**Permit to Take Water No. 6258 BRDJ2M**

**AMENDED PERMIT TO TAKE WATER**  
Ground Water  
NUMBER 7481-C4BQTA

*Pursuant to Section 34.1 of the Ontario Water Resources Act, R.S.O. 1990 this Permit To Take Water is hereby issued to:*

CRH Canada Group Inc.  
Floor 4 - 2300 Steeles Ave W  
Concord, Ontario  
L4K 5X6

*For the water taking from:* Source Water Pond located at 716 Watts Pond Road

*Located at:* Lot 27, Concession 2, Geographic Township of Dumfries  
Brant

*For the purposes of this Permit, and the terms and conditions specified below, the following definitions apply:*

**DEFINITIONS**

- (a) "Director" means any person appointed in writing as a Director pursuant to section 5 of the OWRA for the purposes of section 34.1, OWRA.
- (b) "Provincial Officer" means any person designated in writing by the Minister as a Provincial Officer pursuant to section 5 of the OWRA.
- (c) "Ministry" means Ontario Ministry of the Environment, Conservation and Parks.
- (d) "District Office" means the Guelph District Office.
- (e) "Permit" means this Permit to Take Water No. 7481-C4BQTA including its Schedules, if any, issued in accordance with Section 34.1 of the OWRA.
- (f) "Permit Holder" means CRH Canada Group Inc..
- (g) "OWRA " means the *Ontario Water Resources Act*, R.S.O. 1990, c. O. 40, as amended.

You are hereby notified that this Permit is issued subject to the terms and conditions outlined below:

## **TERMS AND CONDITIONS**

### **1. Compliance with Permit**

- 1.1 Except where modified by this Permit, the water taking shall be in accordance with the application for this Permit To Take Water, dated January 6, 2021 and signed by Kevin Mitchell, and all Schedules included in this Permit.
- 1.2 The Permit Holder shall ensure that any person authorized by the Permit Holder to take water under this Permit is provided with a copy of this Permit and shall take all reasonable measures to ensure that any such person complies with the conditions of this Permit.
- 1.3 Any person authorized by the Permit Holder to take water under this Permit shall comply with the conditions of this Permit.
- 1.4 This Permit is not transferable to another person.
- 1.5 This Permit provides the Permit Holder with permission to take water in accordance with the conditions of this Permit, up to the date of the expiry of this Permit. This Permit does not constitute a legal right, vested or otherwise, to a water allocation, and the issuance of this Permit does not guarantee that, upon its expiry, it will be renewed.
- 1.6 The Permit Holder shall keep this Permit available at all times at or near the site of the taking, and shall produce this Permit immediately for inspection by a Provincial Officer upon his or her request.
- 1.7 The Permit Holder shall report any changes of address to the Director within thirty days of any such change. The Permit Holder shall report any change of ownership of the property for which this Permit is issued within thirty days of any such change. A change in ownership in the property shall cause this Permit to be cancelled.

### **2. General Conditions and Interpretation**

#### **2.1 Inspections**

The Permit Holder must forthwith, upon presentation of credentials, permit a Provincial Officer to carry out any and all inspections authorized by the OWRA, the *Environmental Protection Act*, R.S.O. 1990, the *Pesticides Act*, R.S.O. 1990, or the *Safe Drinking Water Act*, S. O. 2002.

#### **2.2 Other Approvals**

The issuance of, and compliance with this Permit, does not:

- (a) relieve the Permit Holder or any other person from any obligation to comply with any other applicable legal requirements, including the provisions of the *Ontario Water Resources Act*, and

the *Environmental Protection Act* , and any regulations made thereunder; or

(b) limit in any way any authority of the Ministry, a Director, or a Provincial Officer, including the authority to require certain steps be taken or to require the Permit Holder to furnish any further information related to this Permit.

### 2.3 Information

The receipt of any information by the Ministry, the failure of the Ministry to take any action or require any person to take any action in relation to the information, or the failure of a Provincial Officer to prosecute any person in relation to the information, shall not be construed as:

(a) an approval, waiver or justification by the Ministry of any act or omission of any person that contravenes this Permit or other legal requirement; or

(b) acceptance by the Ministry of the information's completeness or accuracy.

### 2.4 Rights of Action

The issuance of, and compliance with this Permit shall not be construed as precluding or limiting any legal claims or rights of action that any person, including the Crown in right of Ontario or any agency thereof, has or may have against the Permit Holder, its officers, employees, agents, and contractors.

### 2.5 Severability

The requirements of this Permit are severable. If any requirements of this Permit, or the application of any requirements of this Permit to any circumstance, is held invalid or unenforceable, the application of such requirements to other circumstances and the remainder of this Permit shall not be affected thereby.

### 2.6 Conflicts

Where there is a conflict between a provision of any submitted document referred to in this Permit, including its Schedules, and the conditions of this Permit, the conditions in this Permit shall take precedence.

## 3. **Water Takings Authorized by This Permit**

### 3.1 **Expiry**

This Permit expires on **October 29, 2025**. No water shall be taken under authority of this Permit after the expiry date.

### 3.2 Amounts of Taking Permitted

The Permit Holder shall only take water from the source, during the periods and at the rates and amounts of taking specified in Table A. Water takings are authorized only for the purposes specified in Table A.

**Table A**

	Source Name / Description:	Source: Type:	Taking Specific Purpose:	Taking Major Category:	Max. Taken per Minute (litres):	Max. Num. of Hrs Taken per Day:	Max. Taken per Day (litres):	Max. Num. of Days Taken per Year:	Zone/ Easting/ Northing:
1	Source Water Pond	Pond Dugout	Aggregate Washing	Industrial	10,000	12	7,200,000	230	17 550738 4784696
						<b>Total Taking:</b>	7,200,000		

- 3.3 The Permit Holder shall only take water from the source, during the periods and at the rates and amounts of taking specified in Table A.
- 3.4 The “Taking Specific Purpose” identified in Table A, includes the water to be used for dust suppression, watering trees, shrubs and native plants planted within the last 18 months..
- 3.5 Notwithstanding Table A, the rate of taking from the Source Pond shall only be at the rate and daily maximum listed in Table A for a total of 30 days per annum for the purpose of refilling the Settling and Recirculation Ponds after removal of accumulated sediment from these ponds or repairing the liner in the Recirculation Pond. For the remaining 200 days, the water taking shall be at a rate of no more than 1,400 L/min for 12 hours per day.
- i. Water may be taken during a 12 hour period between a Sunday and the following Monday (e.g. Sunday 7:00pm and Monday 7:00am) at the rate of 10,000 L/min. This water taking shall be measured and shall be recorded as being taken on the Sunday. Water may be taken on the Monday at a rate of 1,400 L/min as per Condition 3.4 above.
- ii. In the event of a long holiday weekend, water may be taken during a 12 hour period between the holiday Monday and Tuesday (e.g. holiday Monday 7:00pm and Tuesday 7:00am). This water taking shall be measured and shall be recorded as being taken on the holiday Monday. Water may be taken on the Tuesday at a rate of 1,400 L/min as per Condition 3.4 above.
- 3.6 Water taking under the authorization of this permit shall only occur between February 15 and December 31 of each year during the validity of this Permit.
- 3.7 In the event the Permit Holder pumps water from the Source Pond at lower than the maximum permitted rates, the saved water can be pumped in other days exceeding the total number of 230 days provided the additional days shall be within the permitted window of February 15 to December 31 inclusive, and the rate of taking shall not exceed 1,400 litres per minute and 1,008,000 litres per day. The Cumulative Volume pumped in all days from February 15 to December 31 shall not exceed 417,600,000 litres annually.

#### 4. Monitoring

- 4.1 Under section 9 of O. Reg. 387/04 as amended from time to time, the Permit Holder shall, on each day water is taken under the authorization of this Permit, record the date, the volume of water taken on that date and the rate at which it was taken. The daily volume of water taken shall be measured by a flow meter or calculated in accordance with the method described in the application for this Permit, or as otherwise accepted by the Director.

The Permit Holder shall maintain a separate record of the water taking used for both dust suppression and vegetation watering.

The Permit Holder shall keep all records required by this condition current and available at or near the site of the taking and shall produce the records immediately for inspection by a Provincial Officer upon his or her request. The Permit Holder, unless otherwise required by the Director, shall submit, on or before March 31st in every year, the records required by this condition to the ministry's Water Taking Reporting System. These records shall be included in the Combined Annual Monitoring Report described in Condition 4.4.

- 4.2 a) The Permit Holder shall monitor groundwater levels at the following monitoring wells;
- i) MW1-12 or replacement well in the same general area,
  - ii) MW3-16 or replacement well located between the Source Pond and the south property boundary, and
  - iii) Wells BH88-5 and BH88-5-II or replacement wells in the same general area.
- b) The three (3) groundwater monitoring wells listed in Condition 4.2 a) shall be located at three (3) different distances from the edge of the Source Pond. In addition, these three (3) wells shall be screened within the upper Sand and Gravel Aquifer. These three (3) wells may be used for other monitoring purposes.
- c) The Permit Holder shall ensure that groundwater levels are collected at the three groundwater monitoring wells described in Condition 4.2 a) between February 15 and December 31 of every for which the Permit is valid. Water levels shall be collected at a minimum of hourly intervals using a datalogger.
- d) The Permit Holder shall ensure that the data loggers described in Condition 4.2 d) operate without interruption. Repairs or replacement of the dataloggers shall be completed within a reasonable period once a malfunction has been identified.
- 4.3 The Permit Holder shall establish the following surface water monitoring program seasonally during non-freezing conditions:
- a) continuous surface water level monitoring at SW1A, SW1B and MP1S and MP2S.

- b) calculation of vertical hydraulic gradient at the multi-level piezometer; and
- c) continuous water level monitoring shall be logged at a minimum of 4 hour intervals.

4.4 The Permit Holder shall ensure that groundwater levels, surface water levels, and any other data collected from any on site monitoring wells are included in a Combined Annual Monitoring Report. Copies of this Combined Annual Monitoring Report shall be submitted to both the Ministry of the Environment, Conservation and Parks, Section 34.1 Director and the County of Brant by March 31st of each year following the issuance of the Permit to Take Water.

The Combined Annual Monitoring Report shall include a comparison of the annual groundwater elevation contours with the simulated water level changes outlined in the OWRA s34 Permit-To-Take-Water Application and Supporting Hydrologic and Hydrogeologic Study, Dufferin Paris Pit, County of Brant, Ontario, prepared by Conestoga-Rovers & Associates, dated March 2013.

4.5 The Permit Holder shall make the report required by Condition 4.4 available to the Community Advisory Panel, and publicly by posting it on the Company's website at the time specified in Condition 4.4.

4.6 All Permit renewals and amendments other than administrative amendments shall be accompanied by a hydrogeological assessment report which presents and discusses the data collected in Conditions 4.1, 4.2 and 4.3. This report shall be signed and stamped by a qualified person.

4.7 The Permit Holder shall continue to implement the Trigger Mechanism and Contingency Plan for both groundwater and surface water. This Plan shall be reviewed and updated with approval by the ministry as necessary at minimum every two years. This review can be completed as part of the Combined Annual Monitoring report referenced in Condition 4.4.

## **5. Impacts of the Water Taking**

### **5.1 Notification**

The Permit Holder shall immediately notify the local District Office of any complaint arising from the taking of water authorized under this Permit and shall report any action which has been taken or is proposed with regard to such complaint. The Permit Holder shall immediately notify the local District Office if the taking of water is observed to have any significant impact on the surrounding waters. After hours, calls shall be directed to the Ministry's Spills Action Centre at 1-800-268-6060.

### **5.2 For Groundwater Takings**

If the taking of water is observed to cause any negative impact to other water supplies obtained from any adequate sources that were in use prior to initial issuance of a Permit for this water taking, the Permit Holder shall take such action necessary to make available to those affected, a supply of water equivalent in quantity and quality to their normal takings, or shall compensate

such persons for their reasonable costs of so doing, or shall reduce the rate and amount of taking to prevent or alleviate the observed negative impact. Pending permanent restoration of the affected supplies, the Permit Holder shall provide, to those affected, temporary water supplies adequate to meet their normal requirements, or shall compensate such persons for their reasonable costs of doing so.

If permanent interference is caused by the water taking, the Permit Holder shall restore the water supplies of those permanently affected.

**6. Director May Amend Permit**

The Director may amend this Permit by letter requiring the Permit Holder to suspend or reduce the taking to an amount or threshold specified by the Director in the letter. The suspension or reduction in taking shall be effective immediately and may be revoked at any time upon notification by the Director. This condition does not affect your right to appeal the suspension or reduction in taking to the Environmental Review Tribunal under the *Ontario Water Resources Act*, Section 100 (4).

*The reasons for the imposition of these terms and conditions are as follows:*

1. Condition 1 is included to ensure that the conditions in this Permit are complied with and can be enforced.
2. Condition 2 is included to clarify the legal interpretation of aspects of this Permit.
3. Conditions 3 through 6 are included to protect the quality of the natural environment so as to safeguard the ecosystem and human health and foster efficient use and conservation of waters. These conditions allow for the beneficial use of waters while ensuring the fair sharing, conservation and sustainable use of the waters of Ontario. The conditions also specify the water takings that are authorized by this Permit and the scope of this Permit.

*In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, you may by written notice served upon me, the Environmental Review Tribunal and the Minister of the Environment, Conservation and Parks, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Minister of the Environment, Conservation and Parks will place notice of your appeal on the Environmental Registry. Section 101 of the Ontario Water Resources Act, as amended provides that the Notice requiring a hearing shall state:*

1. The portions of the Permit or each term or condition in the Permit in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

*In addition to these legal requirements, the Notice should also include:*

- a. The name of the appellant;
- b. The address of the appellant;
- c. The Permit to Take Water number;
- d. The date of the Permit to Take Water;
- e. The name of the Director;
- f. The municipality within which the works are located;

*This notice must be served upon:*

*The Secretary  
Environmental Review Tribunal  
655 Bay Street, 15th Floor  
Toronto ON  
M5G 1E5  
Fax: (416) 326-5370  
Email:  
ERTTribunalsecretary@ontario.ca*

*AND*

*The Minister of the Environment,  
Conservation and Parks  
777 Bay Street, 5th Floor  
Toronto, Ontario  
M7J 2J3*

*AND*

*The Director, Section 34.1,  
Ministry of the Environment,  
Conservation and Parks  
Floor 1, 135 St Clair Ave W  
Toronto, ON  
M4V 1P5*

***Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal:***

by Telephone at

(416) 212-6349

Toll Free 1(866) 448-2248

by Fax at

(416) 326-5370

Toll Free 1(844) 213-3474

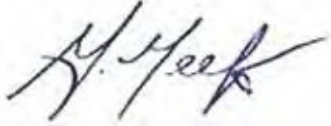
by e-mail at

www.ert.gov.on.ca

*This instrument is subject to Section 38 of the **Environmental Bill of Rights** that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek to appeal for 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry, you can determine when the leave to appeal period ends.*

This Permit cancels and replaces Permit Number 7115-9VVLJW, issued on 2015/10/29.

Dated at Toronto this 13th day of August, 2021.

A handwritten signature in black ink, appearing to read 'G. Meek', written in a cursive style.

Gregory Meek  
Director, Section 34.1  
*Ontario Water Resources Act* , R.S.O. 1990

## Schedule A

This Schedule “A” forms part of Permit To Take Water 7481-C4BQTA, dated August 13, 2021.

1. Application for Amendment to PTTW received by the ministry on January 12, 2021 from CRH Canada Group Inc. Mailing Address: Floor 4 - 2300 Steeles Ave W, Concord, Ontario, Canada, L4K 5X6 for Dufferin Aggregates Paris Pit at Lot 27, Concession 2, 716 Watts Pond Road, geographic township: DUMFRIES, County of Brant, signed by Kevin Mitchell, January 6, 2021. GHD. 2021.
2. Category 3 Permit-To-Take Water Amendment Application Supporting Hydrologic and Hydrogeologic Study, Dufferin Aggregates Paris Pit, signed and stamped by Gary I. Lagos, P. Geo of GHD, January 6, 2021. Dufferin. 2021.
3. Paris Pit Permit to Take Water Amendment Application, Reference No. 8637-BXAR22, letter to Ministry of Environment, Conservation and Parks from Kevin Mitchell of Dufferin Aggregates, May 6, 2021.
4. Trigger Mechanism and Contingency Plan Condition 4.7 – PTTW No. 5826-ALCNNN Dufferin Aggregates Paris Pit, County of Brant, Ontario; for CRH Canada Group Inc. Signed by Michael R. Tomka, P. Eng. and signed and stamped by Gary I. Lagos, P. Geo. of GHD, July 19, 2017, Reference No. 078410.

# **Appendix B**

**Environmental Compliance Approval**

**No. 1293-CF7J3M**

**AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL**

NUMBER 3994-CCDR8L  
Issue Date: March 14, 2022

CRH Canada Group Inc.  
2300 Steeles Avenue West, 4th Floor  
Concord, Ontario  
L4K 5X6

Site Location: Dufferin Aggregates - Paris Pit  
708 Watts Pond Road  
South Dumfries, Ontario  
N3L 3E2

*You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:*

sewage works for the collection, transmission, treatment and reuse of wash water effluent from an aggregate washing operation, consisting of the following:

- one (1) **settling pond** (comprised of the settling cell(s) and the recirculation cell) constructed above the ground-water table receiving wash water from the Processing Wash Plant and make-up water from the source water pond, and returning settled water back to the Processing Wash Plant.

all other controls, electrical equipment, instrumentation, piping, pumps, valves and appurtenances essential for the proper operation of the aforementioned sewage works.

all in accordance with the supporting documents listed in Schedule A.

*For the purpose of this environmental compliance approval, the following definitions apply:*

"Application" means the application for an environmental compliance approval submitted to the Ministry for approval by or on behalf of the Owner and dated February 10, 2022.

"Approval" means this environmental compliance approval, any schedules attached to it, and the Application;

"Director" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part

II.1 of the EPA;

"District Manager" means the District Manager of the Guelph District Office of the Ministry;

"EPA" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19, as amended;

"Ministry" means the ministry of the government of Ontario responsible for the EPA and OWRA and includes all officials, employees or other persons acting on its behalf;

"Owner" means CRH Canada Group Inc., and includes its successors and assignees;

"OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended; and

"Works" means the sewage works described in the Approval.

*You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:*

## **TERMS AND CONDITIONS**

### **1. GENERAL CONDITION**

- 1.1 The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the terms and conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
- 1.2 Except as otherwise provided by these terms and conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with this Approval.
- 1.3 Where there is a conflict between a provision of this environmental compliance approval and any document submitted by the Owner, the conditions in this environmental compliance approval shall take precedence. Where there is a conflict between one or more of the documents submitted by the Owner, the Application shall take precedence unless it is clear that the purpose of the document was to amend the Application
- 1.4 Where there is a conflict between the documents listed in the Schedule A, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.
- 1.5 The terms and conditions of this Approval are severable. If any term and condition of this environmental compliance approval, or the application of any requirement of this environmental compliance approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.

## **2. CHANGE OF OWNER**

- 2.1 The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within **thirty (30) days** of the change occurring:
- (a) change of address of Owner or operating authority;
  - (b) change of Owner or operating authority or both, including address of new Owner or operating authority, or both;
  - (c) change of partners where the Owner or operating authority is or at any time becomes a partnership, and a copy of the most recent declaration filed under the *Business Names Act, R.S.O. 1990, c. B.17* ; and
  - (d) change of name of the corporation where the Owner or operator is or at any time becomes a corporation, and a copy of the “Initial Return” or “Notice of Change” filed under the *Corporations Information Act, R.S.O. 1990, c. C.39* , shall be included in the notification to the District Manager.
- 2.2 In the event of any change in ownership of the Works, the Owner shall notify in writing the succeeding owner of the existence of this Approval, and a copy of such notice shall be forwarded to the District Manager.
- 2.3 The Owner shall ensure that all communications made pursuant to this condition refer to the number at the top of this environmental compliance approval.

## **3. OPERATIONS MANUAL**

- 3.1 The Owner shall prepare an operations manual prior to the construction, use and operation of the Works that includes, but is not limited to, the following information:
- (a) operating procedures for routine operation of the Works;
  - (b) inspection programs, including frequency of inspection, for the Works and the methods or tests to be employed to detect when maintenance is necessary;
  - (c) repair and maintenance programs, including the frequency of repair and maintenance for the Works;
  - (d) contingency plans and procedures for dealing with a potential spill, bypasses or any other abnormal situations, including notifying the District Manager of the situation; and
  - (e) procedures for receiving and responding to public complaints.
- 3.2 The Owner shall review and update the operations manual from time to time and shall retain a copy of

the updated manual onsite at the Works. Upon request, the Owner shall make the manual available for inspection and copying by Ministry personnel.

3.3 The Owner shall make all reasonable efforts to promptly develop a seal at the bottom of the settling pond (comprised of the settling cell(s) and the recirculation cell) and to maintain the integrity of the seal when removing excess sediment from the bottom of the settling pond.

**4. MONITORING AND RECORDING**

4.1 The Owner shall monitor the groundwater through seven (7) groundwater monitoring wells. Existing wells may be used or new wells installed. The groundwater monitoring wells shall meet the following requirements:

- (a) the wells shall be screened within the upper sand and gravel aquifer;
- (b) three (3) groundwater monitoring wells shall be located along the northern boundary of the Paris South Pit, one (1) of these wells may be located at the south boundary of the Paris North Pit;
- (c) three (3) groundwater monitoring wells shall be located along the southern boundary of the Paris South Pit, with one of these monitoring wells located up gradient of the County of Brant’s Telfer wells P31 and P32 and another located immediately down gradient of the source water pond; and
- (d) existing groundwater monitoring well MW1-12 or a suitable replacement shall be included in the monitoring.

4.2 Groundwater samples shall be collected from the seven (7) wells required by Condition 4.1 above in **May, August and December** of each year and sent for analysis in accordance with the table below:

General Chemistry	Metals (1)
Conductivity, pH, Hardness (as CaCO <sub>3</sub> ), Total Suspended Solids (TSS), Total Dissolved Solids, Alkalinity - Bicarbonate (as CaCO <sub>3</sub> ), Alkalinity - Carbonate (as CaCO <sub>3</sub> ), Alkalinity - Hydroxide (as CaCO <sub>3</sub> ), Total - Alkalinity (as CaCO <sub>3</sub> ), Nitrate-N, Nitrite-N, Nitrate & Nitrite (as N), Phosphate-P (ortho), Sulphate, Anion Sum, Cation Sum, Cation - Anion Balance, Dissolved Organic Carbon, Total Organic Carbon, Turbidity.	Aluminium, Antimony, Arsenic, Barium, Beryllium, Bismuth, Boron, Cadmium, Calcium, Chromium, Cobalt, Chloride, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silicon (total and dissolved silicon), Silver, Sodium, Strontium, Thallium, Tin, Titanium, Tungsten, Uranium, Vanadium, Zinc, Zirconium.

(1) - Groundwater samples are analyzed for dissolved metals. Surface water samples are analyzed for total metals.

4.3 Groundwater samples shall also be analysed for pesticides, including organochlorine pesticides and herbicides, as listed in Assessment of Herbicide and Pesticide Concerns, Dufferin Paris Pit, County of Brant, Ontario, CRA (2014) (see Schedule A), at detection limits equal to or lower than those listed. In

the event of any analytical issue (e.g. matrix interference), reasonably achievable laboratory detection limits will apply.

4.4 Surface water samples shall be collected from SW1B (previously referred to as SW1; see OWRA S53 Environmental Compliance Approval (ECA) Application and Supporting Information, Dufferin Paris Pit, County of Brant, CRA, 2013, See Schedule A) and analysed as follows:

- (a) Samples shall be collected three (3) times per year in **May, August and December**; and,
- (b) Samples shall be analysed for: Field Parameters General Chemistry, Metals and Oil and Grease in accordance with the table below:

Field Parameters	General Chemistry, Metals (1) and Oil & Grease
pH, temperature, conductivity, dissolved oxygen, turbidity	Total Suspended Solids, hardness, alkalinity, nutrients (total phosphorous, total nitrate, and total nitrite), major ions, metals (unfiltered samples except for aluminium which should be from a clay free sample), Oil and Grease.

- (c) Surface water samples shall also be analysed for the suite of pesticides, including organochlorine pesticides and herbicides, listed in Assessment of Herbicide and Pesticide Concerns, Dufferin Paris Pit, County of Brant, Ontario, CRA (2014) (see Schedule A). For pesticides, the analytical detection limits shall be equal to or lower than those listed in Assessment of Herbicide and Pesticide Concerns, Dufferin Paris Pit, County of Brant, Ontario, CRA (2014). In the event of any analytical issue (e.g. matrix interference), reasonably achievable laboratory detection limits will apply.

4.5 The Owner shall ensure that no sediment shall be used on Site for rehabilitation without complying with all applicable laws in place at the time of reuse.

4.6 Water samples shall be collected from the recirculation cell as follows:

- (a) Water samples shall be collected two (2) times during the calendar year, between **February 15th** and **December 15<sup>th</sup>**, with the first sample taken prior to the start of aggregate washing season and the second taken at the end.

4.7 The water samples collected from the recirculation cell shall be sent for analysis of general chemistry and metals (as described in condition 4.2) and pesticides, including Glyphosate, Atrazine, Atrazine Desethyl and Aminomethylphosphonic Acid (AMPA). The sampling methods shall have detection limits at levels identical to or lower than those described in Assessment of Herbicide and Pesticide Concerns, Dufferin Paris Pit, County of Brant, Ontario, CRA (2014) (see Schedule 1). In the event of any analytical issues (e.g. matrix interference), reasonably achievable laboratory detection limits will apply.

4.8 After **three (3) years** of continuous data collection, application may be made to the Director to have the monitoring conditions amended.

## **5. CONTINGENCY AND POLLUTION PREVENTION PLAN**

5.1 The Owner shall prepare a Contingency and Pollution Prevention Plan prior to the commencement of operation of the Works that includes, but is not necessarily limited to, the following information:

- (a) the name, job title and address of the Owner, person in charge, management or control of the facility.
- (b) the name, job title and 24-hour telephone number of the person(s) responsible for activating the Contingency Plan.
- (c) a site plan drawn to scale showing the facility, nearby buildings, streets, maintenance access and the Works (including direction(s) of flow in storm events) and any features which need to be taken into account in terms of potential impacts on access and response (including physical obstructions and location of response and clean-up equipment).
- (d) a listing of telephone numbers for: local clean-up company(ies) who may be called upon to assist in responding to spills; local emergency responders including health institution(s); and MOECC Spills Action Centre 1-800-268-6060.
- (e) Materials Safety Data Sheets (MSDS) for each hazardous material which may be transported or stored within the area serviced by the Works.
- (f) the written procedures by which the Contingency and Pollution Prevention Plan is activated and a description of the Trigger Mechanism(s).
- (g) a description of the spill response and pollution prevention training provided to employees assigned to work in the area serviced by the Works, the date(s) on which the training was provided and to whom.
- (h) the date on which the Contingency and Pollution Prevention Plan was prepared and subsequently, amended.
- (i) any other information the District Manager requires from time to time.

5.2 The Contingency and Pollution Prevention Plan shall be kept in a conspicuous place inside the office building. Upon request, the Owner shall make the manual available for inspection and copying by Ministry personnel.

5.3 The Contingency and Pollution Prevention Plan shall be reviewed and amended from time to time, as needed by changes in the operation of the facility.

5.4 A minimum of **thirty (30) days** prior to submission, a copy of the Plan required by Condition 5.1 shall be provided to the County of Brant and posted on the Company's website for a period of thirty (30) days to permit the County of Brant and the public the opportunity to provide comments to the Company.

## **6. REPORTING**

6.1 In addition to the obligations under Part X of the EPA and O. Reg. 675/98 (Classification and Exemption Of Spills and Reporting of Discharges), the Owner shall, within **fifteen (15) days** of the occurrence of any reportable spill as provided in Part X of the EPA and Ontario Regulation 675/98, submit a full written report of the occurrence to the District Manager describing the cause and discovery of the spill, clean-up and recovery measures taken, preventative measures to be taken and a schedule of implementation.

6.2 The Owner shall prepare and submit a report to the District Manager on an annual basis within **ninety (90) days** following the end of the period being reported upon. The first such report shall cover the first annual period following the commencement of operation of the Works and subsequent reports shall be submitted to cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:

- (a) a summary and interpretation of all monitoring data with a comparison to applicable objectives, guidelines, standards, and modelled predictions;
- (b) an overview of the success and adequacy of the Works;
- (c) a description of any operating problems encountered and corrective actions taken;
- (d) a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works; and
- (e) any other information the District Manager requires from time to time.

## **7. SPECIAL CONDITION – PUBLIC ACCESSIBILITY TO REPORT**

The Owner shall, make the report required by Condition 6.3 available to the community advisory panel and publicly by posting it on the Company's website at the time specified in Condition 6.3.

*The reasons for the imposition of these terms and conditions are as follows:*

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.

2. Condition 2 is included to ensure that the Ministry records are kept accurate and current with respect to approved Works and to ensure that subsequent owners of the Works are made aware of the Approval and continue to operate the works in compliance with it.
3. Condition 3 is included to ensure that a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the Owner and made available to the Ministry. Such a manual is an integral part of the operation of the Works. Its compilation and use should assist the owner in staff training, in proper plant operation and in identifying and planning for contingencies during possible abnormal conditions. The manual will also act as a benchmark for Ministry staff when reviewing the Owner's operation of the Works.
4. Condition 4 is included to enable the Owner to evaluate and demonstrate the performance of the Works, on a continual basis, so that the Works are properly operated and maintained and so that the Works do not cause any impairment to the environment. The Condition is also included for the following purposes:
  - a) To determine the chemistry of groundwater flowing onto and from that part of the Paris Pit property located south of Watts Pond Road. This area is known as the Paris South Pit.
  - b) To determine whether the recirculation and source ponds have an effect on groundwater chemistry.
5. Condition 5 is included to ensure that the Owner will implement the spill contingency plan, such that the environment is protected and deterioration, loss, injury or damage to any person(s) or property is prevented.
6. Condition 6 is included to provide a performance record for future references, to ensure that the Ministry is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this Approval, so that the Ministry can work with the Owner in resolving any problems in a timely manner.
7. Condition 7 is included to provide the general public with the report required in Condition 6.2.

## SCHEDULE 'A'

This Schedule contains a list of supporting documentation / information received, reviewed and relied upon in the issuance of this Approval.

1. Environmental Compliance Approval Application for Industrial Sewage Works submitted by J. Richard Murphy, P.Eng., of Conestoga-Rovers & Associates Ltd., and signed by Kevin Mitchell, Manager Environment and Properties, of Holcim (Canada) Inc., dated June 03, 2013; and all supporting documentation and information.
2. CRA. 2013. OWRA S53 Environmental Compliance Approval (ECA) Application and Supporting Information, Dufferin Paris Pit, County of Brant, Ontario, signed and stamped by Michael R. Tomka, P. Eng., signed and stamped by Gary Lagos, P. Geo. and signed by J. Richard Murphy, P. Eng. of Conestoga-Rovers & Associates, June 2013, #078410, Report Number: 3.
3. CRA (2014). Assessment of Herbicide and Pesticide Concerns, Dufferin Paris Pit, County of Brant, Ontario; signed and stamped by Gary Lagos, P. Geo. and signed by J. Richard Murphy, P. Eng. of Conestoga-Rovers & Associates, July 2014, #078410, Report Number: 5.
4. CRA. 2015. Re: Modifications to Works for Existing ECA Application Dufferin Paris Pit, Paris, Ontario; letter addressed to Mr. Adedoyin Adenowo, Senior Wastewater Engineer, Ministry of Environment and Climate Change from Michael Tomka, P. Eng. of Conestoga-Rovers & Associates, April 16, 2015, Reference No. 078410.
5. AE. 2010. Alberta Tier 1 Soil and Groundwater Remediation Guidelines, Alberta Environment, December 2010, ISBN: 978-0-7785-9015-6 (Printed Edition) ISBN: 978-0-7785-9947-0 (On-line Edition), Retrieved May 6, 2015 from:  
<http://environment.gov.ab.ca/info/library/7751.pdf>
6. NSE. 2014. Environmental Quality Standards for Contaminated Sites Rationale and Guidance, Nova Scotia Environment, Environmental Quality Standards for Contaminated Sites, April 2014, retrieved May 6, 2015 from:  
<https://novascotia.ca/nse/contaminatedsites/docs/EQS-Contaminated%20Sites-Rationale-and-Guidance-NSE-2014.pdf>
7. Environmental Compliance Approval Application for Industrial Sewage Works submitted by Richard Chatfield, P.Eng., GHD Limited, and signed by Jennah Pettenuzzo, Environmental Coordinator - Dufferin Aggregates, dated February 10, 2022; and all supporting documentation and information.

**Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 0302-ALCK5W issued on April 12, 2017.**

In accordance with Section 139 of the *Environmental Protection Act*, you may by written notice served upon me and the Ontario Land Tribunal within 15 days after receipt of this notice, require a hearing by the Tribunal. Section 142 of the *Environmental Protection Act* provides that the notice requiring the hearing ("the Notice") shall state:

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the *Environmental Protection Act*, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

Registrar\*  
Ontario Land Tribunal  
655 Bay Street, Suite 1500  
Toronto, Ontario  
M5G 1E5  
OLT.Registrar@ontario.ca

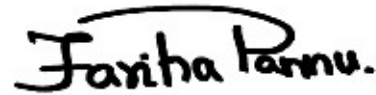
and

The Director appointed for the purposes of Part II.1 of the *Environmental Protection Act*  
Ministry of the Environment, Conservation and Parks  
135 St. Clair Avenue West, 1st Floor  
Toronto, Ontario  
M4V 1P5

\* Further information on the Ontario Land Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349 or 1 (866) 448-2248, or [www.olt.gov.on.ca](http://www.olt.gov.on.ca)

The above noted activity is approved under s.20.3 of Part II.1 of the *Environmental Protection Act*.

DATED AT TORONTO this 14th day of March, 2022



---

Fariha Pannu, P.Eng.

Director

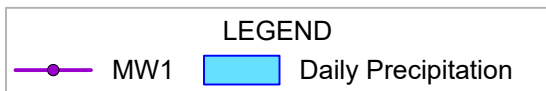
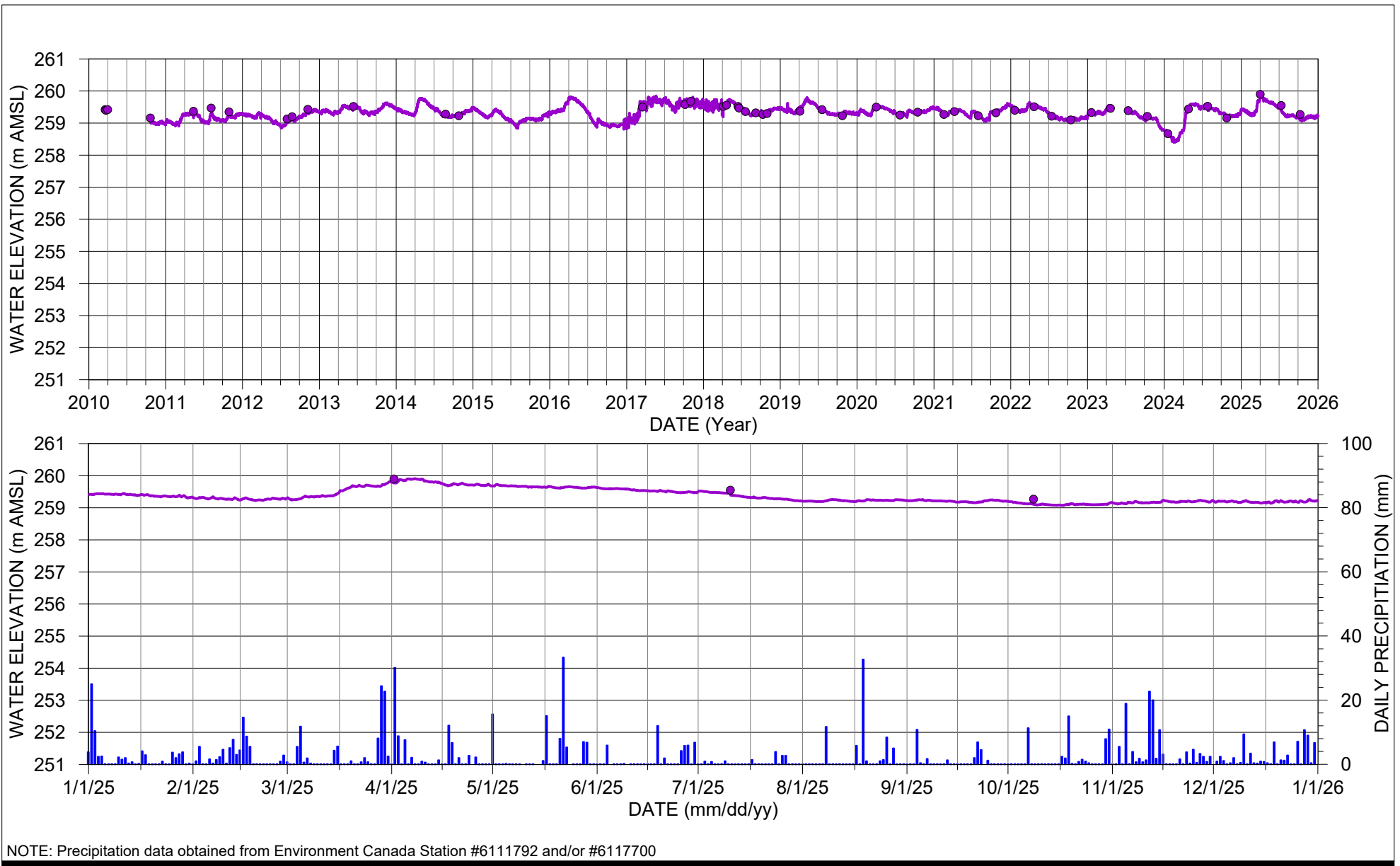
appointed for the purposes of Part II.1 of the  
*Environmental Protection Act*

AA/

c: District Manager, MECP Guelph District Office  
Richard Chatfield, P.Eng., GHD Limited

# Appendix C

## Hydrographs

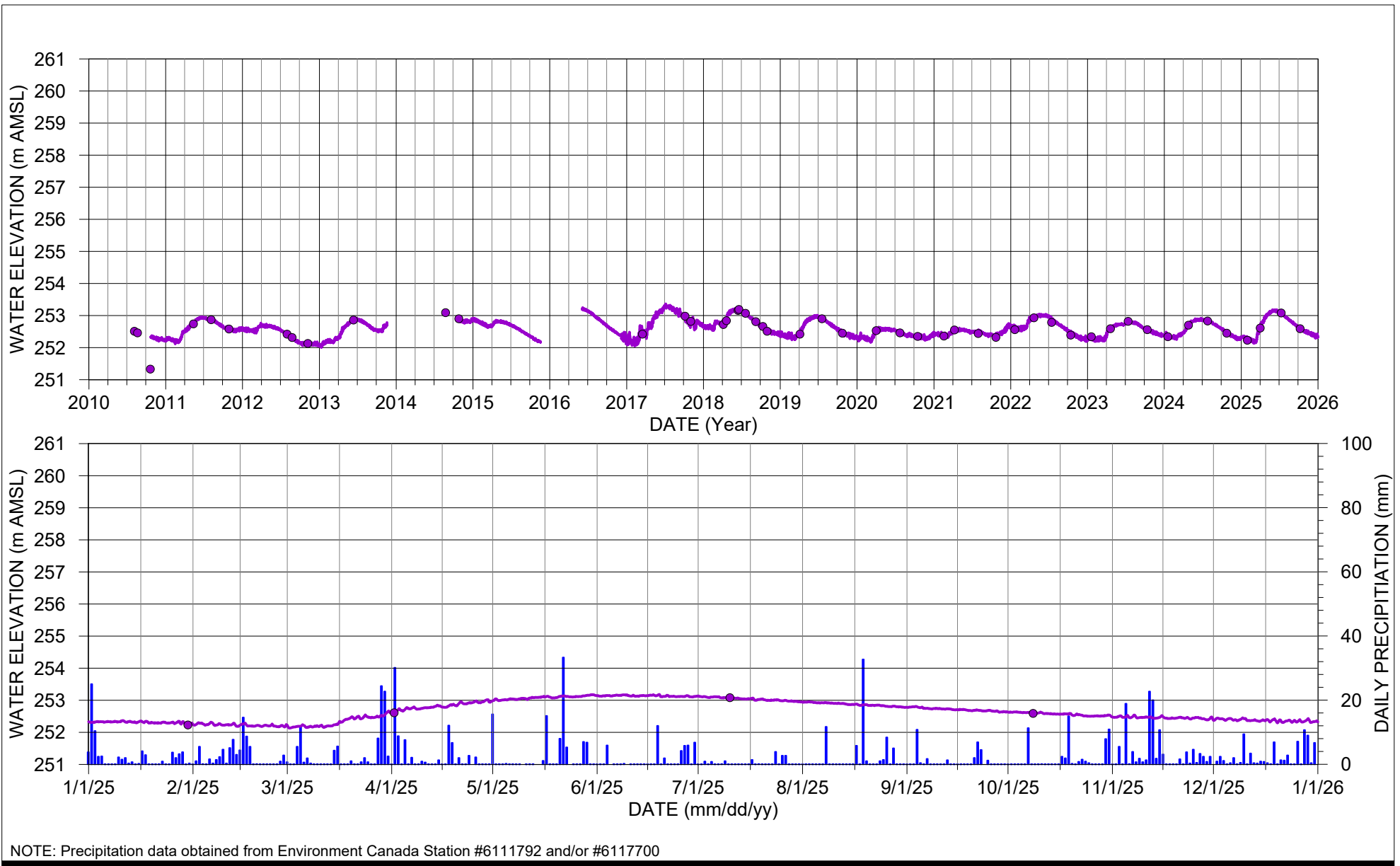


DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

Project No. 11155365  
Date April 29, 2026

**HYDROGRAPH**  
**SHALLOW GROUNDWATER ZONE**  
**MW1**

**FIGURE C-1**

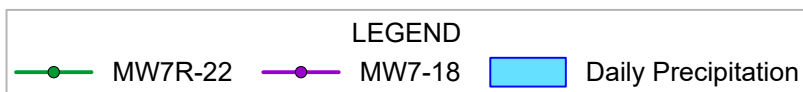
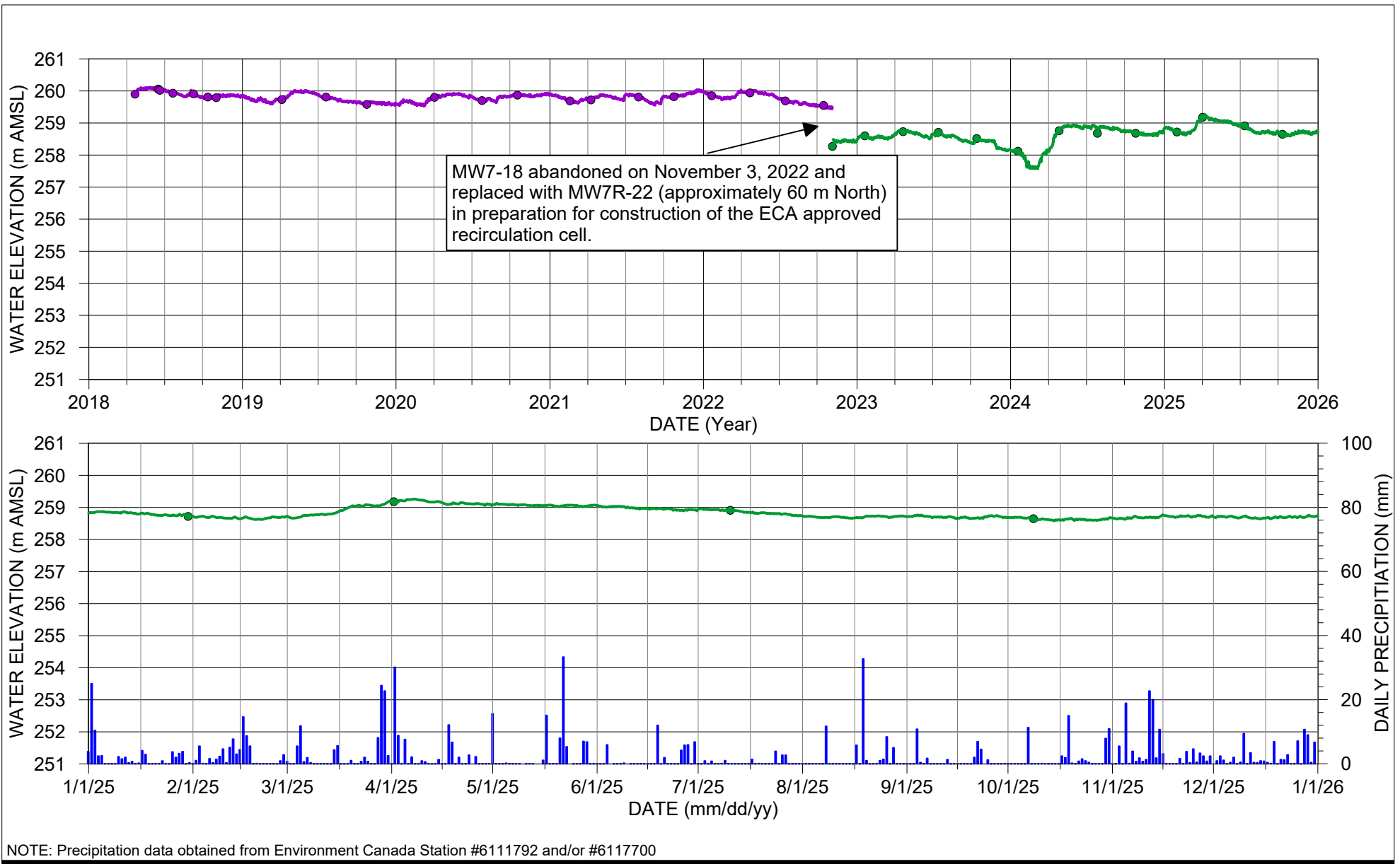


DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

Project No. 11155365  
Date April 29, 2026

HYDROGRAPH  
SHALLOW GROUNDWATER ZONE  
MW4-10

FIGURE C-2

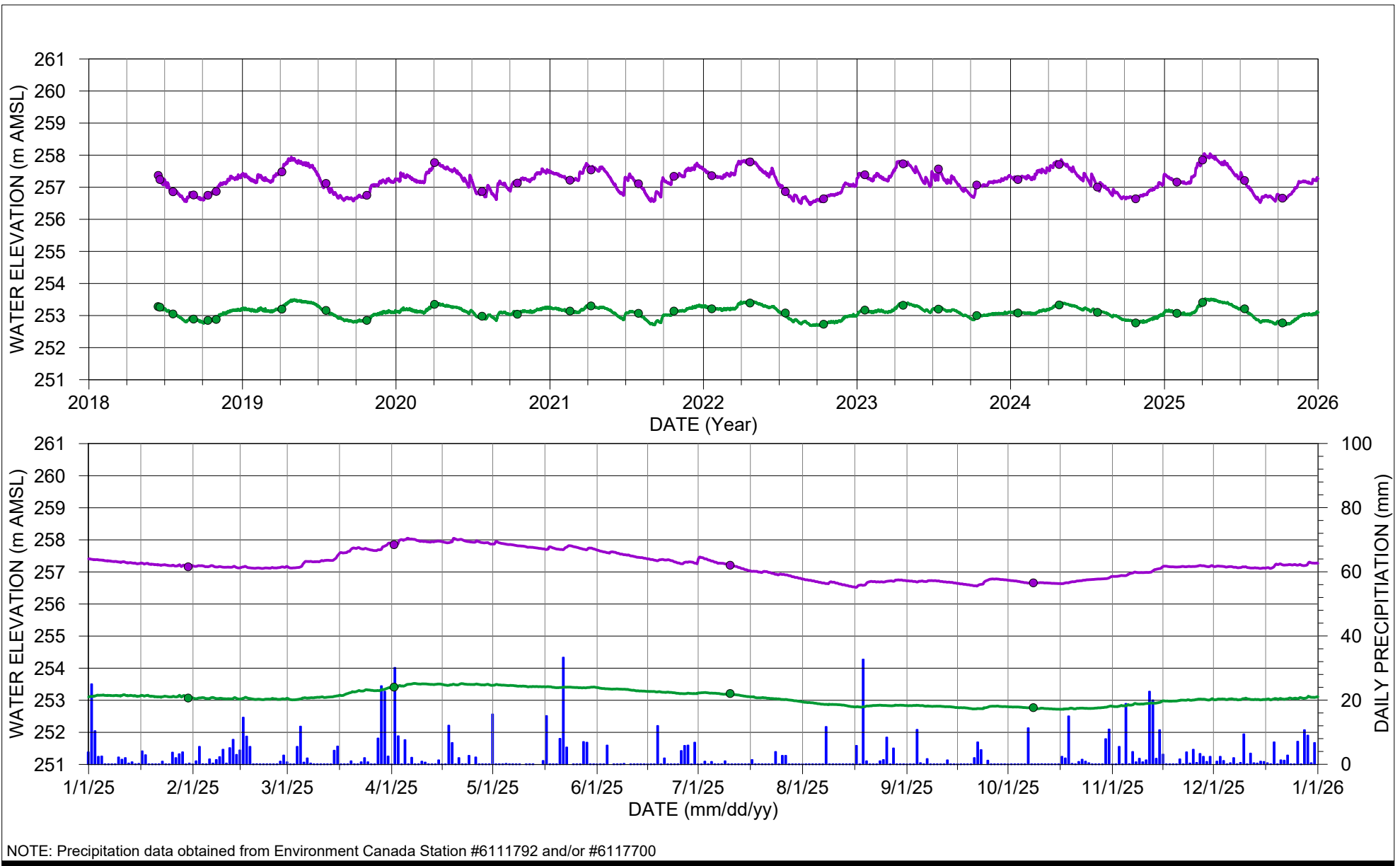


DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

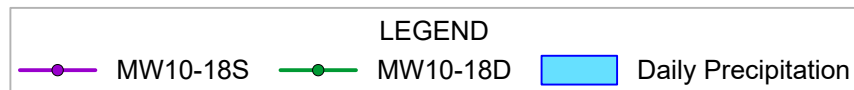
Project No. 11155365  
Date April 29, 2026

HYDROGRAPH  
SHALLOW GROUNDWATER ZONE  
MW7R-22

FIGURE C-3



NOTE: Precipitation data obtained from Environment Canada Station #6111792 and/or #6117700

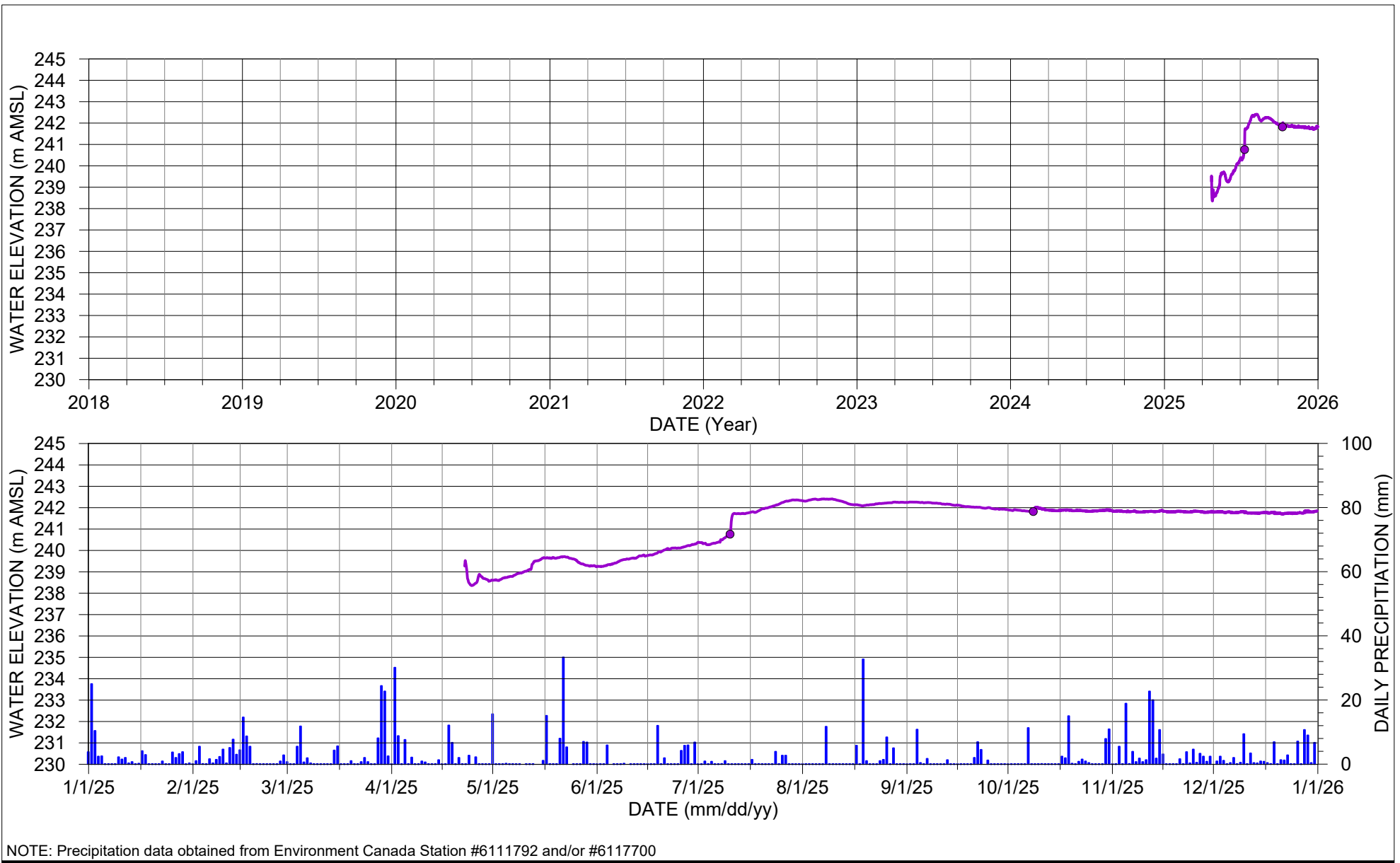


DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

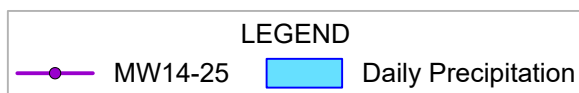
Project No. 11155365  
Date April 29, 2026

HYDROGRAPH  
SHALLOW GROUNDWATER ZONE  
MW10-18

FIGURE C-4



NOTE: Precipitation data obtained from Environment Canada Station #6111792 and/or #6117700

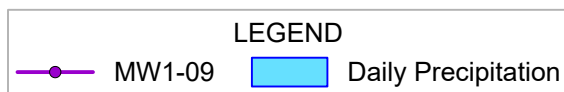
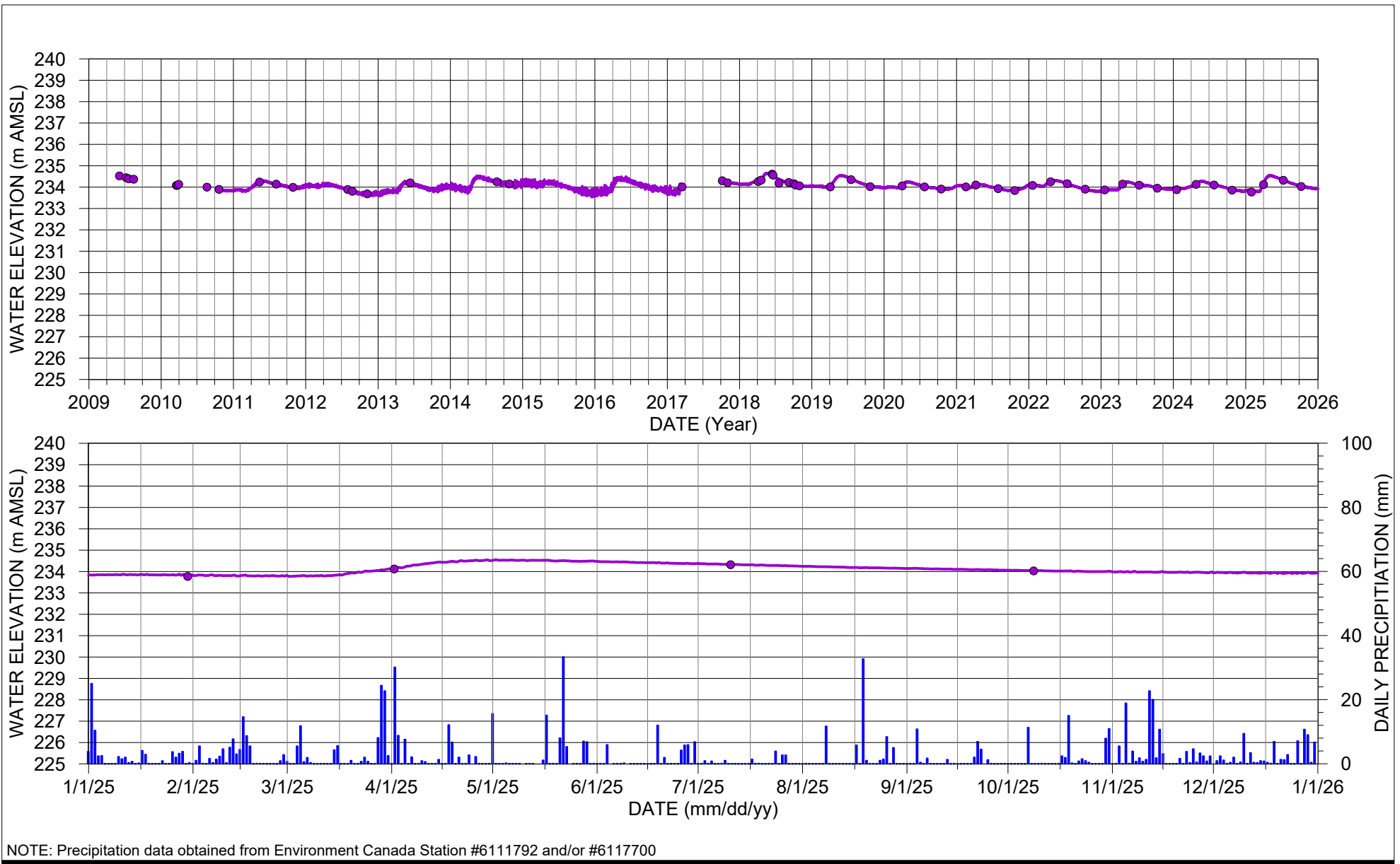


DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

Project No. 11155365  
Date April 29, 2026

HYDROGRAPH  
SHALLOW GROUNDWATER ZONE  
MW14-25

FIGURE C-5

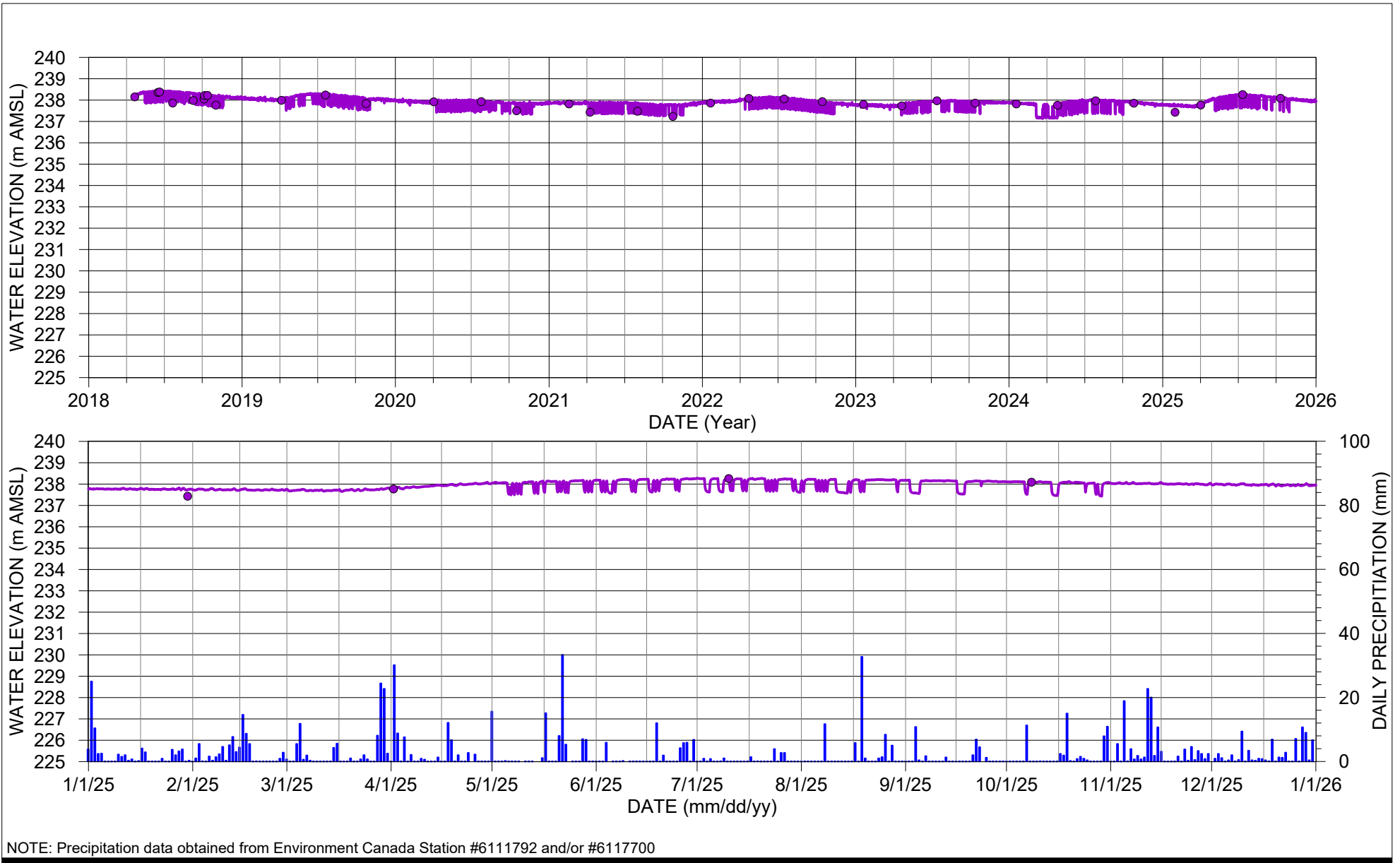


DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

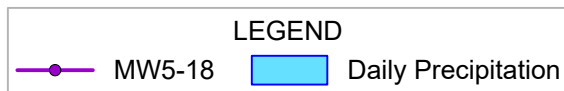
Project No. 11155365  
Date April 29, 2026

HYDROGRAPH  
UPPER AQUIFER  
MW1-09

**FIGURE C-6**



NOTE: Precipitation data obtained from Environment Canada Station #6111792 and/or #6117700

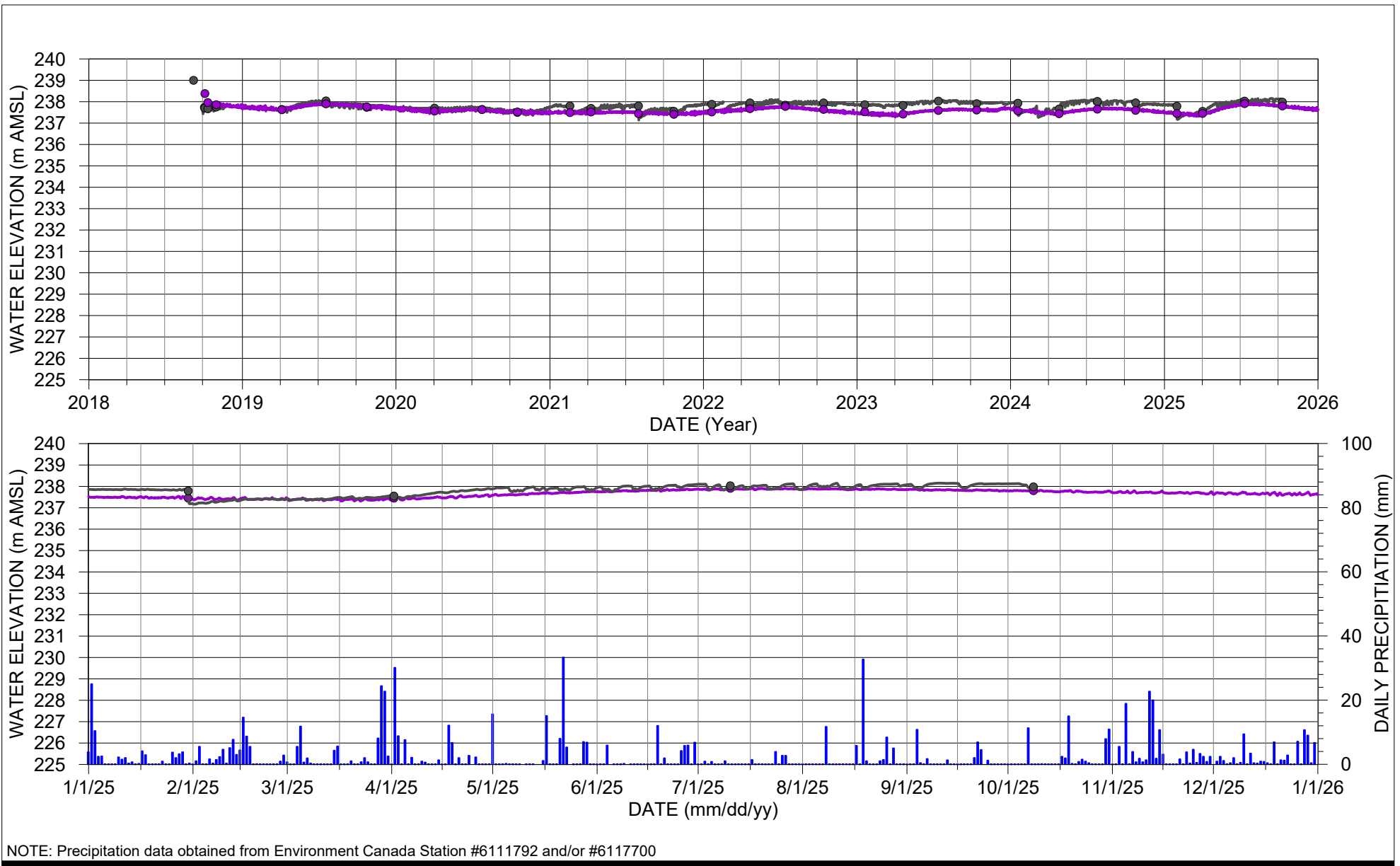


DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

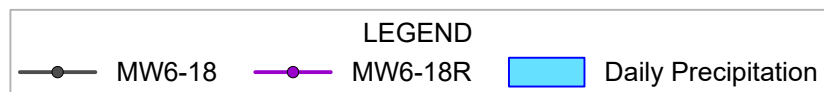
Project No. 11155365  
Date April 29, 2026

HYDROGRAPH  
UPPER AQUIFER  
MW5-18

FIGURE C-7



NOTE: Precipitation data obtained from Environment Canada Station #6111792 and/or #6117700

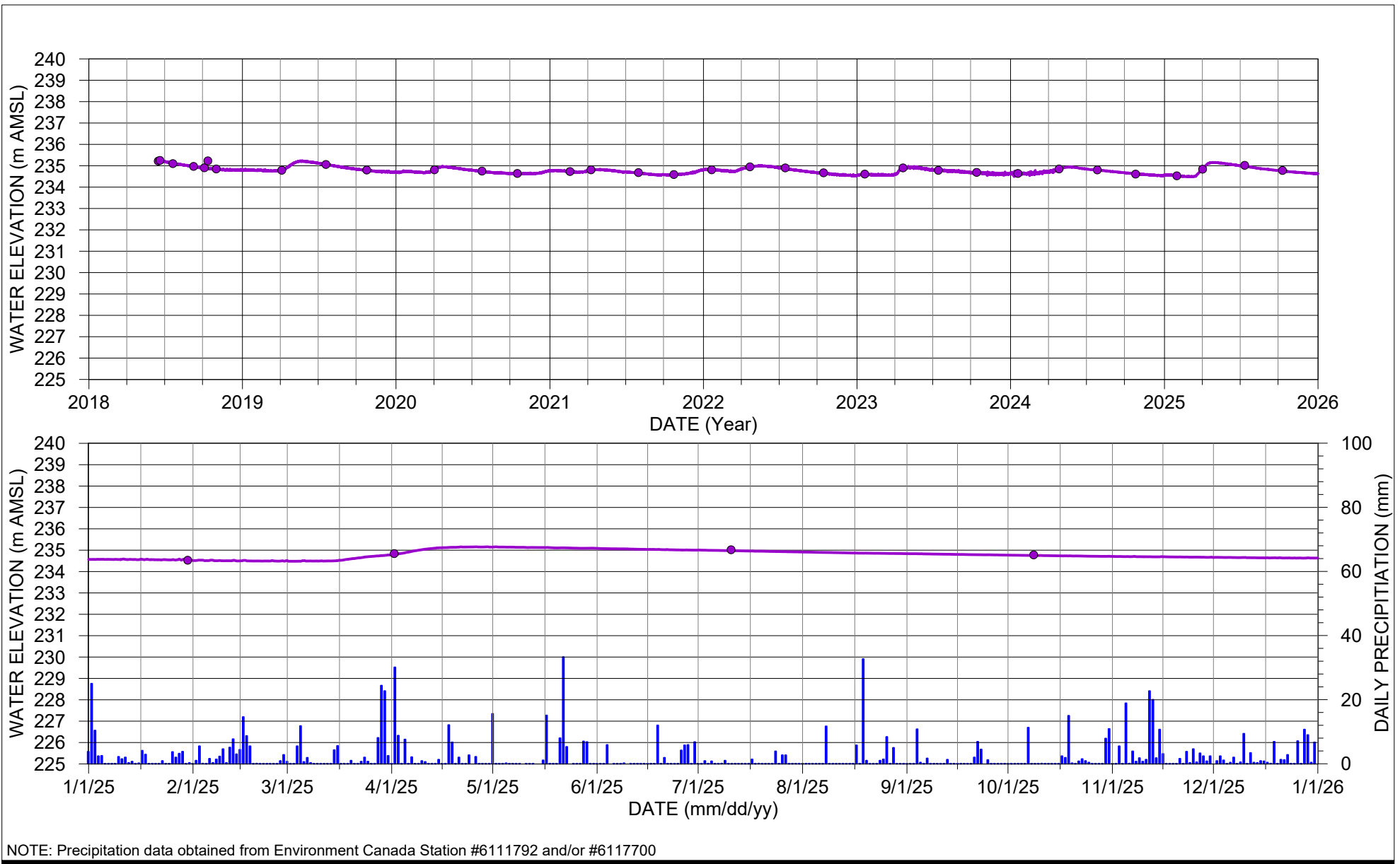


DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

Project No. 11155365  
Date April 29, 2026

HYDROGRAPH  
UPPER AQUIFER  
MW6-18

FIGURE C-8



NOTE: Precipitation data obtained from Environment Canada Station #6111792 and/or #6117700

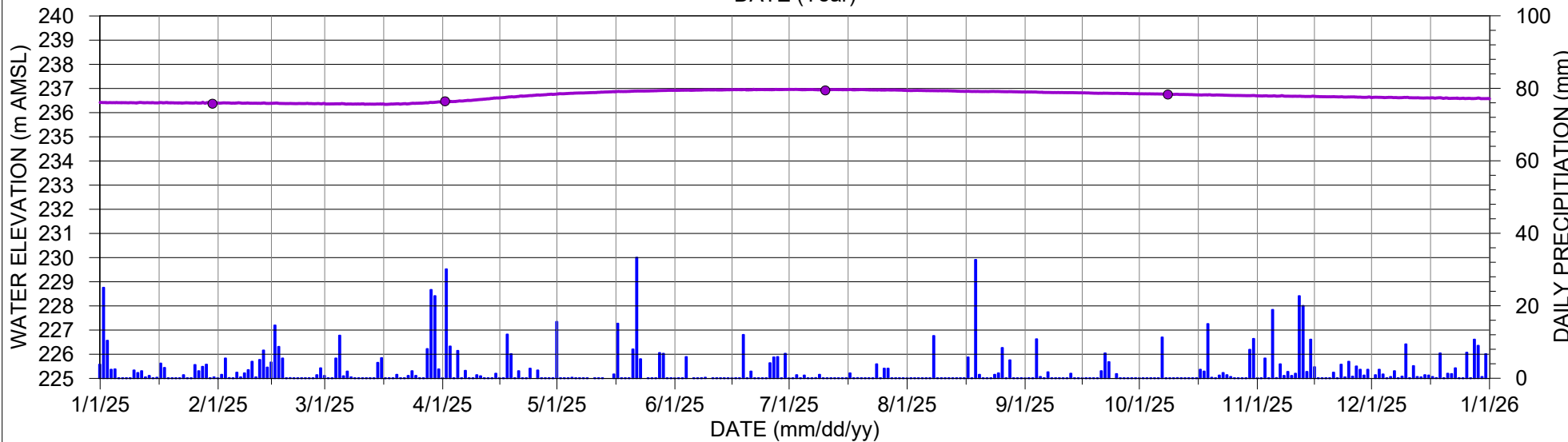
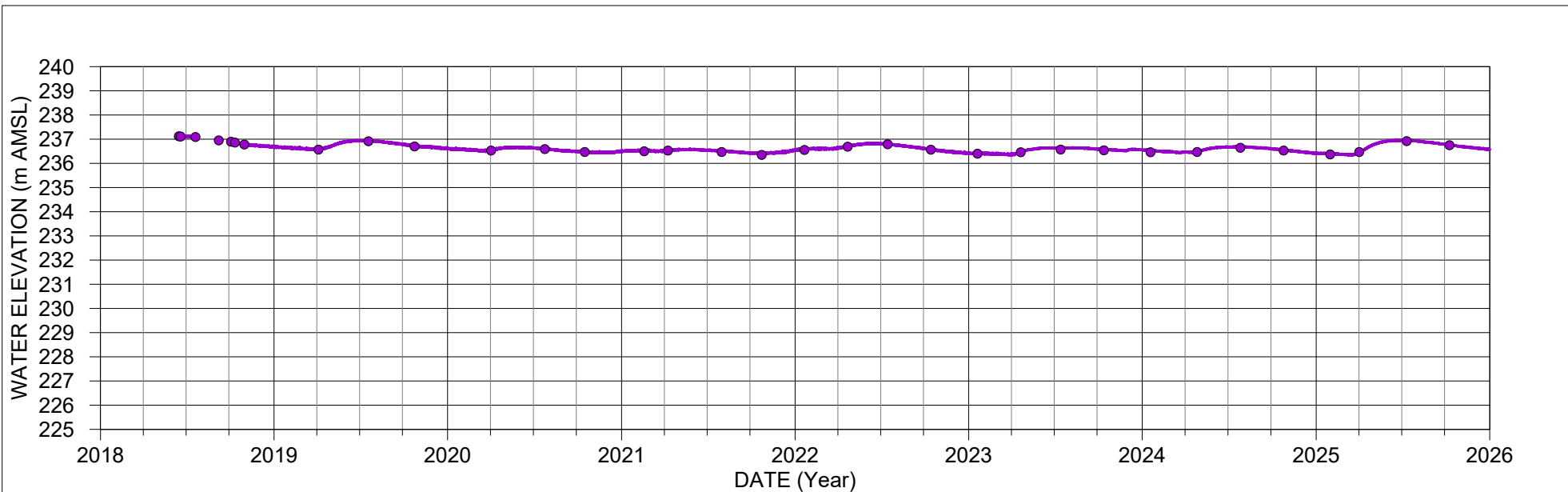


DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

Project No. 11155365  
Date April 29, 2026

HYDROGRAPH  
UPPER AQUIFER  
MW8-18

FIGURE C-9



NOTE: Precipitation data obtained from Environment Canada Station #6111792 and/or #6117700

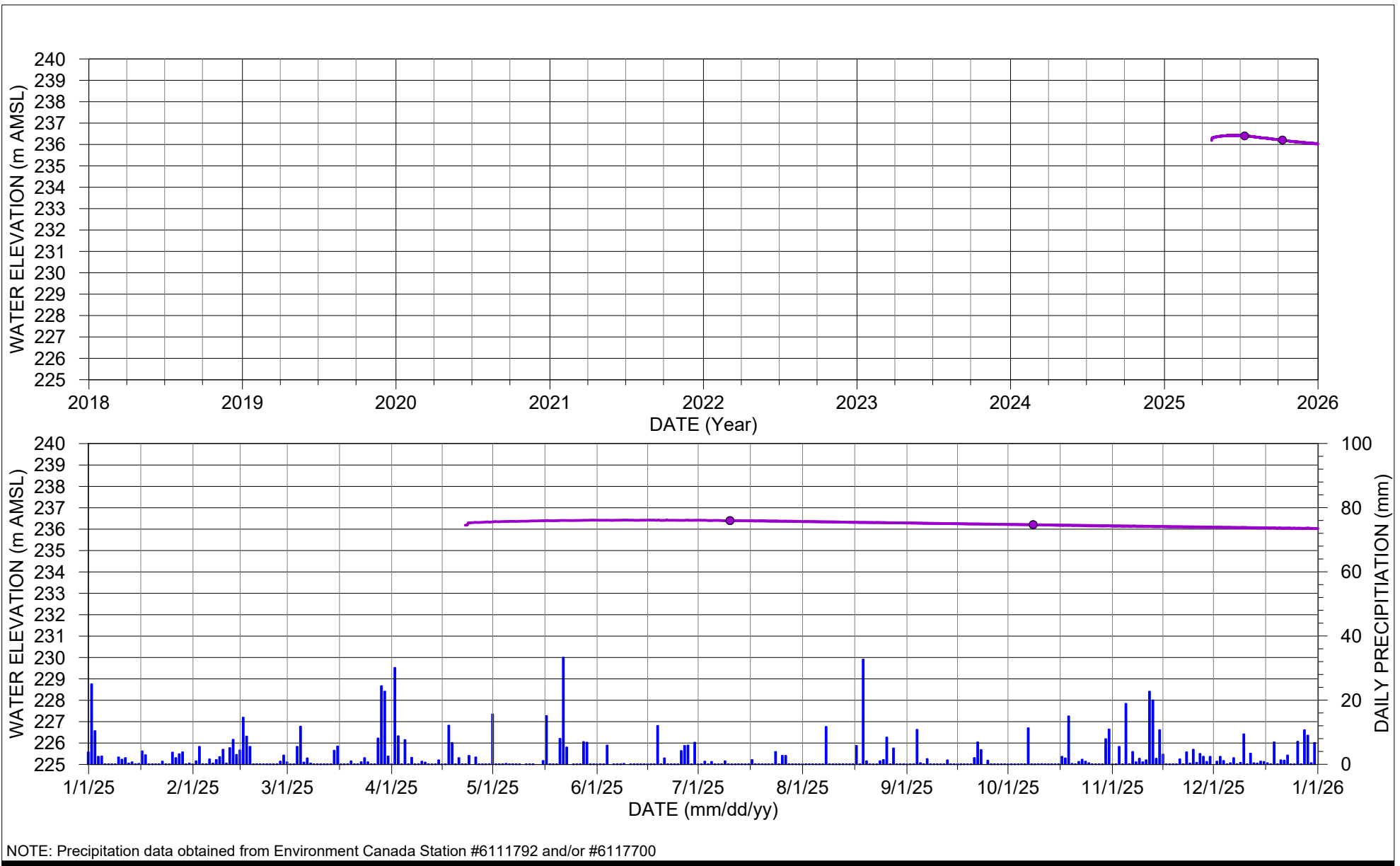


DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

Project No. 11155365  
Date April 29, 2026

HYDROGRAPH  
UPPER AQUIFER  
MW9-18

FIGURE C-10



NOTE: Precipitation data obtained from Environment Canada Station #6111792 and/or #6117700

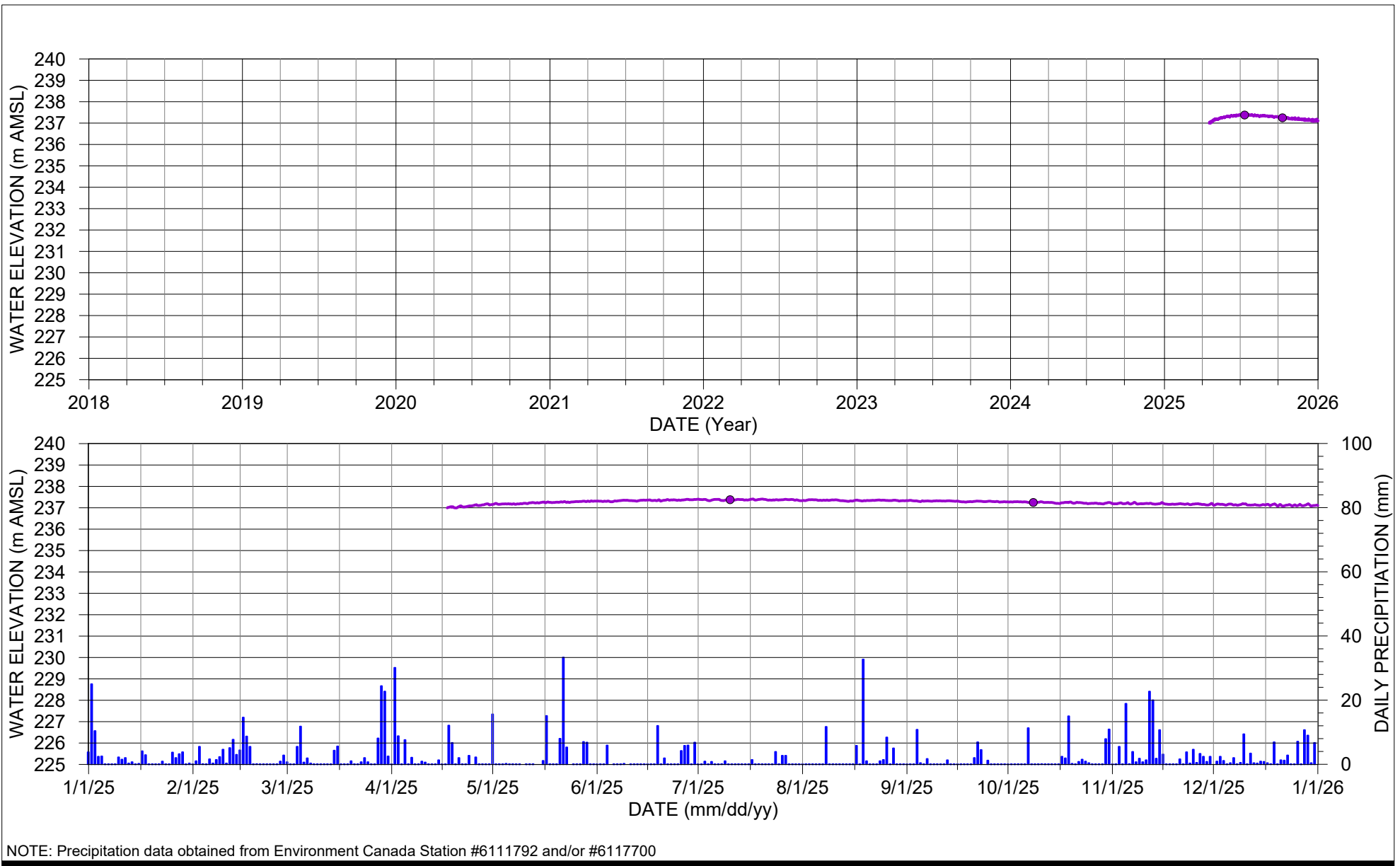


DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

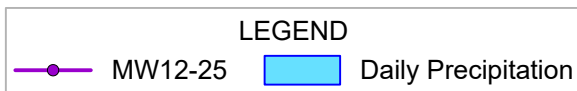
Project No. 11155365  
Date April 29, 2026

**HYDROGRAPH  
UPPER AQUIFER  
MW11-25**

**FIGURE C-11**



NOTE: Precipitation data obtained from Environment Canada Station #6111792 and/or #6117700

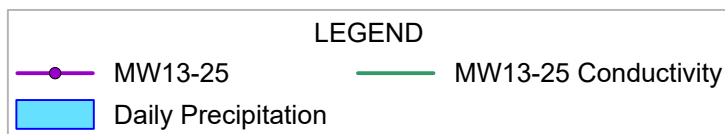
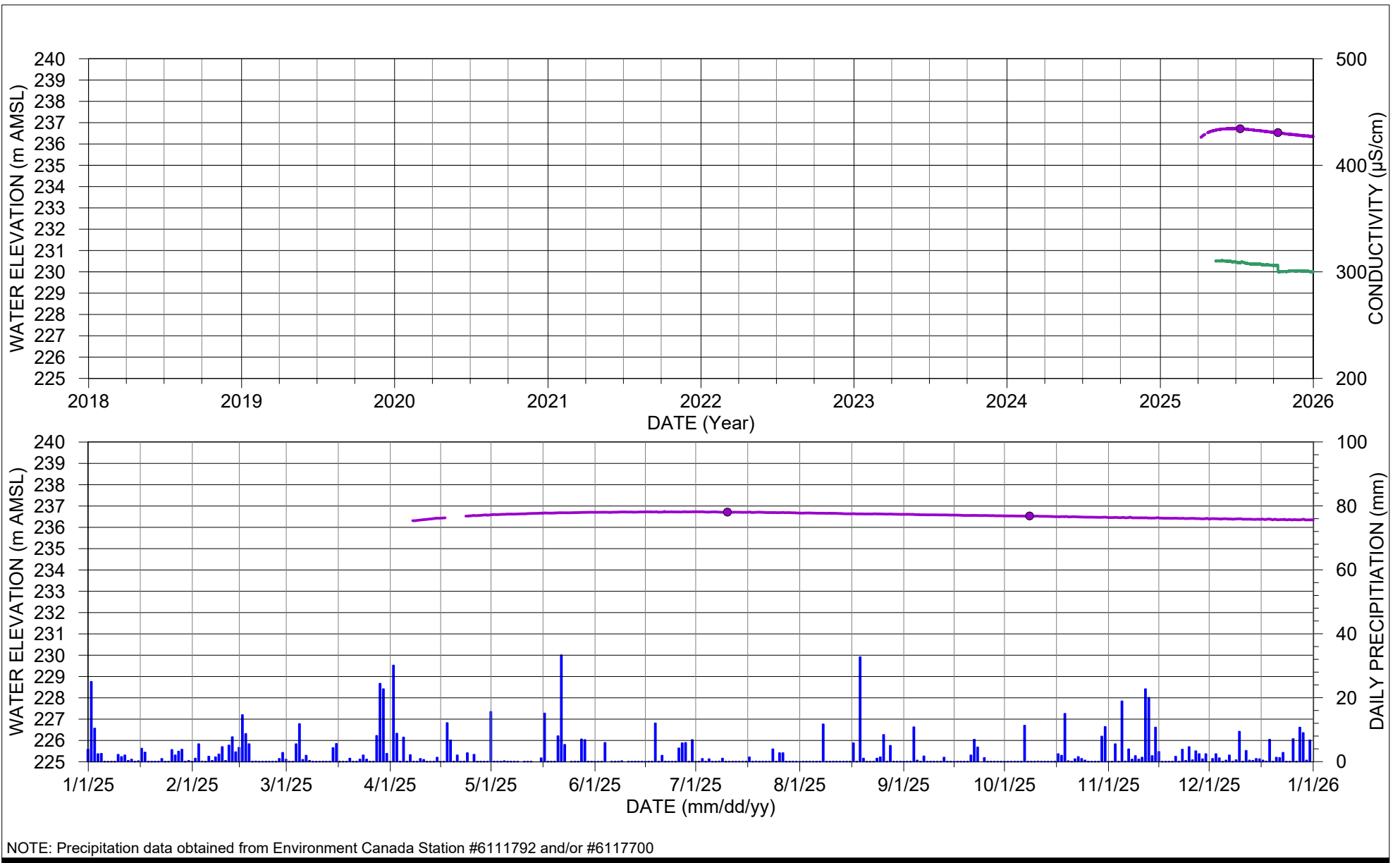


DUFFERIN AGGREGATES TEEDON PIT  
 TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

Project No. 11155365  
 Date April 30, 2026

HYDROGRAPH  
 UPPER AQUIFER  
 MW12-25

FIGURE C-12

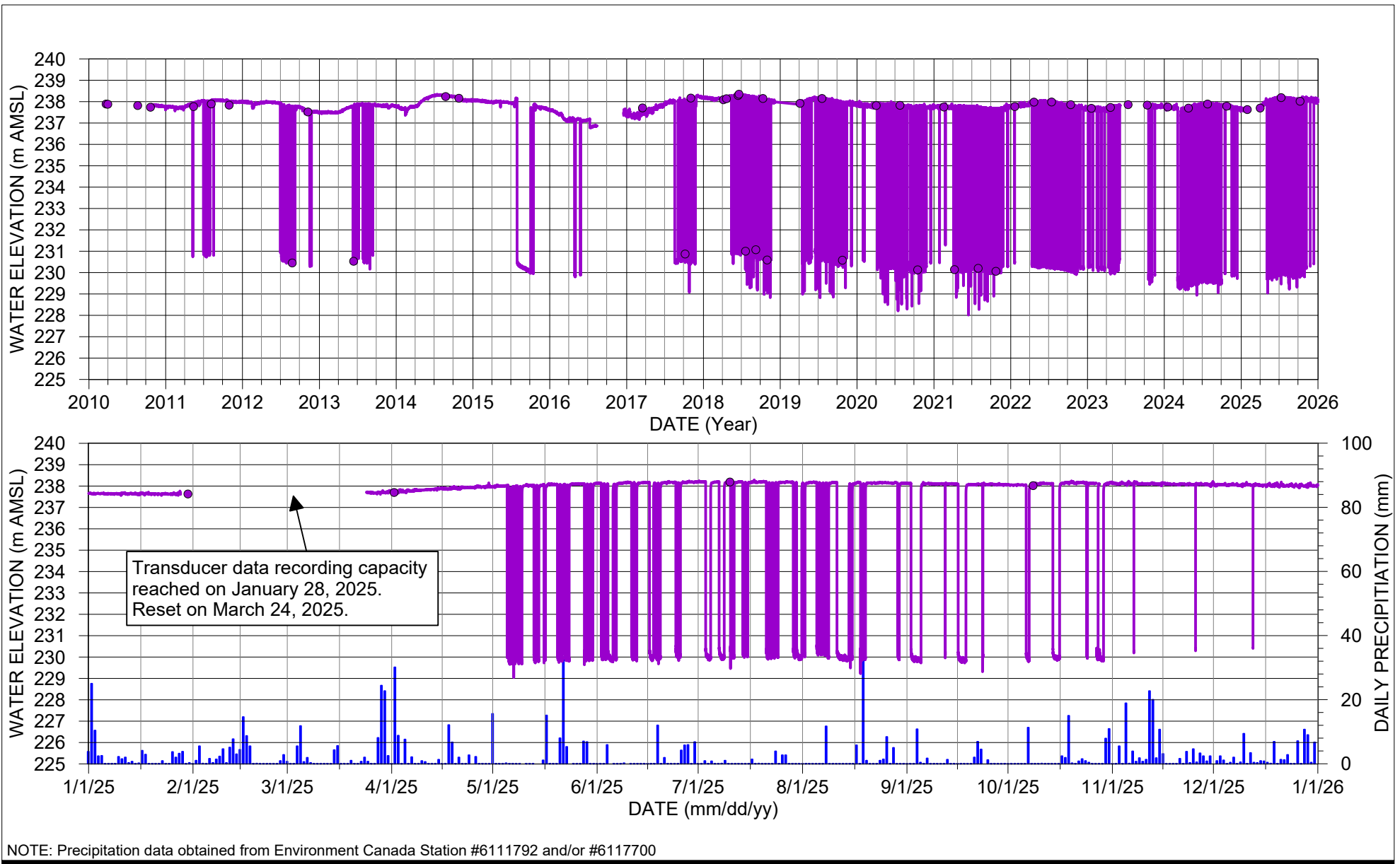


DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

Project No. 11155365  
Date April 29, 2026

**HYDROGRAPH  
UPPER AQUIFER  
MW13-25**

**FIGURE C-13**



NOTE: Precipitation data obtained from Environment Canada Station #6111792 and/or #6117700

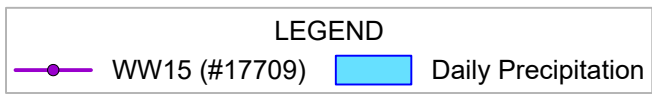
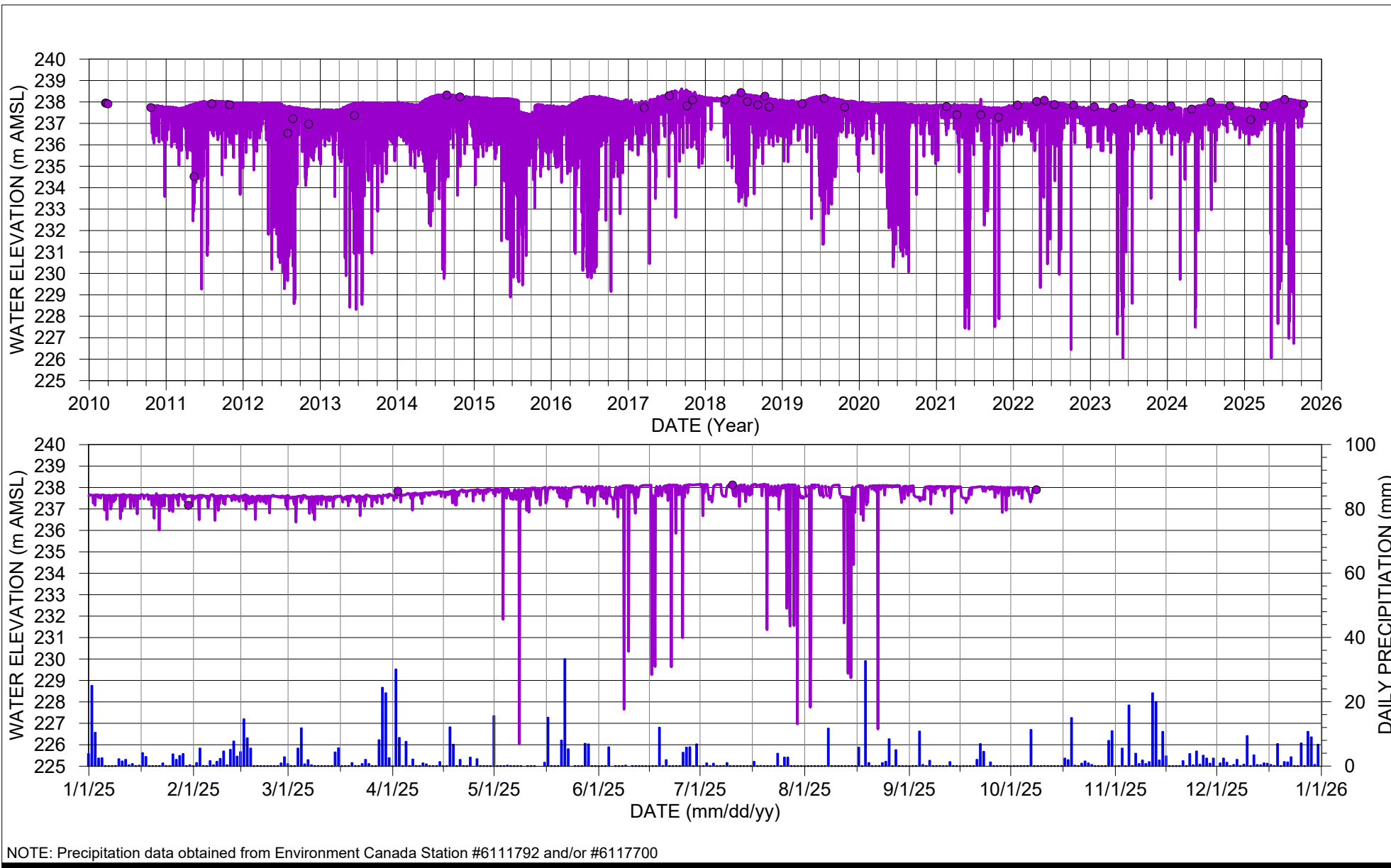


DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

Project No. 11155365  
Date April 29, 2026

HYDROGRAPH  
UPPER AQUIFER  
PW1-09

FIGURE C-14

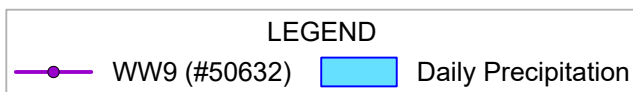
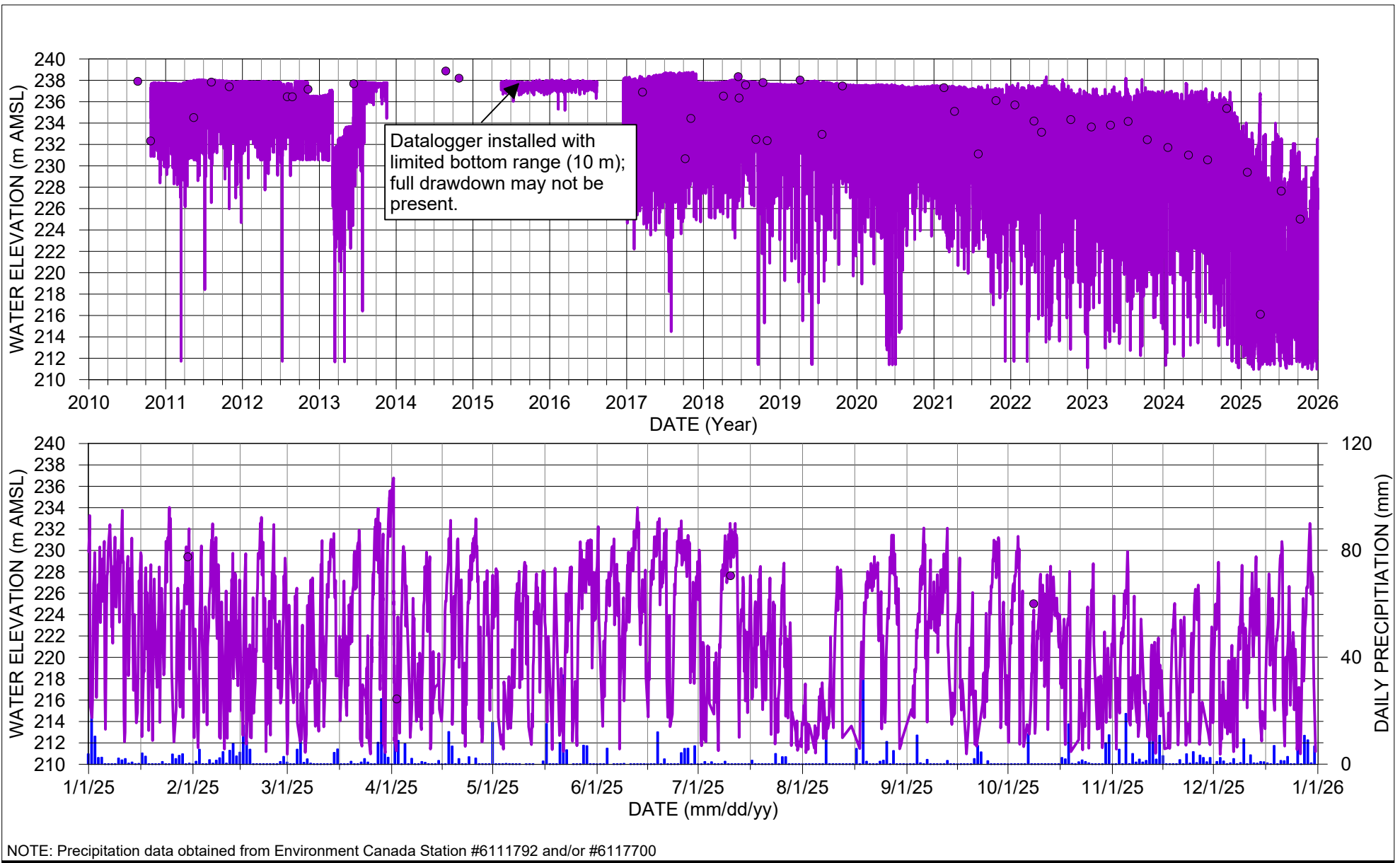


DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

Project No. 11155365  
Date April 29, 2026

HYDROGRAPH  
PRIVATE WELL WW15 (#17709)

**FIGURE C-15**

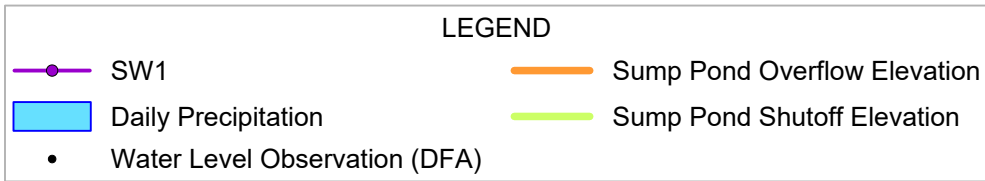
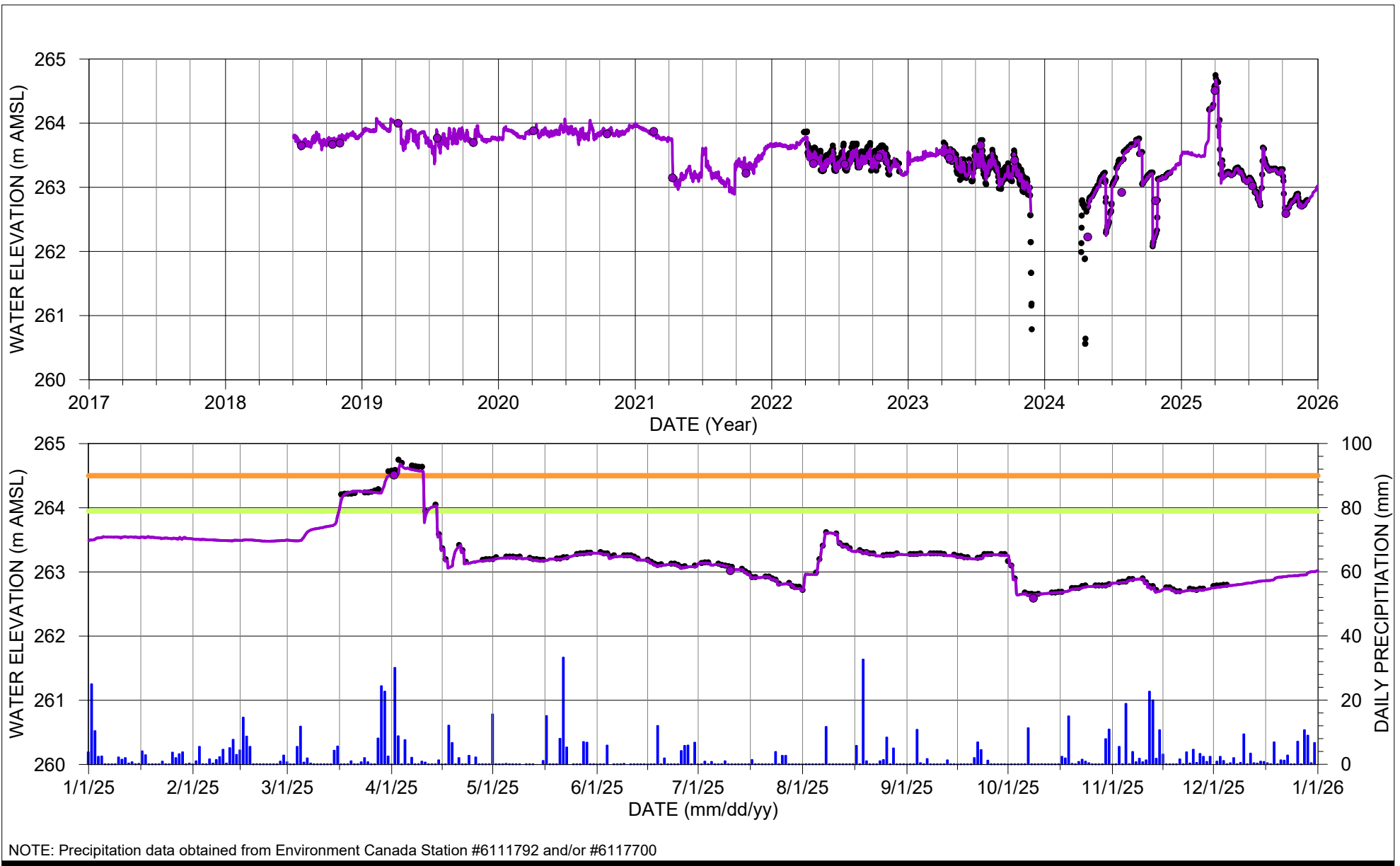


DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

Project No. 11155365  
Date April 29, 2026

HYDROGRAPH  
PRIVATE WELL WW9 (#50632)

FIGURE C-16



DUFFERIN AGGREGATES TEEDON PIT  
TOWNSHIP OF TINY, COUNTY OF SIMCOE, ONTARIO

Project No. 11155365  
Date April 29, 2026

HYDROGRAPH - SURFACE WATER  
SUMP POND (SW1)

**FIGURE C-17**

# Appendix D

## Stratigraphic and Instrumentation Logs



# STRATIGRAPHIC LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: BH1-25  
 DATE COMPLETED: 4 April 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CAI\WATERLOO\PROJECTS\662\11155365\TECH\GINT\LOG.DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-R2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	RUN NUMBER	CORE RECOVERY %	RQD %
	NORTHING: 4945017 EASTING: 591675	GROUND SURFACE 269.30			
1	TOPSOIL, SILT, rootlets, brown, moist				
2	SILT, brown, moist, medium compaction dry	267.78 267.47			
3					
4	CLAYEY SILT, brown to grey, moist	265.95			
5					
6					
7					
8					
9	END OF BOREHOLE @ 9.15m BGS	260.15			
10					
11					
12					
13					
14					

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



# STRATIGRAPHIC LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: BH2-25  
 DATE COMPLETED: 4 April 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CAI\WATERLOO\PROJECTS\662\11155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-R2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	RUN NUMBER	CORE RECOVERY %	RQD %
	GROUND SURFACE	272.11			
	NORTHING: 4945012.93 EASTING: 591649.1				
1	TOPSOIL/ROOTLETS, brown, moist, some silt, trace sand				
2	SILT, grey, moist, tight, rootlets	270.59			
	SANDY SILT, brown, tight, moist	269.98			
	Fine SAND, brown, loose	269.67			
3	CLAYEY SILT, grey, tight, moist	269.06			
4					
5	decreasing clay	266.62			
6	SAND, grey, loose, dry	266.01			
7					
8					
9	CLAYEY SILT, grey, moist	262.96			
10					
11					
12	END OF BOREHOLE @ 12.20m BGS	259.91			
13					
14					

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



# STRATIGRAPHIC LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: BH3-25  
 DATE COMPLETED: 4 April 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CAI\WATERLOO\PROJECTS\662\11155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-R2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	RUN NUMBER	CORE RECOVERY %	RQD %
	NORTHING: 4945041.31 EASTING: 591613.01	GROUND SURFACE	277.15		
	No recovery				
1	TOPSOIL/SANDY SILT, brown, rootlets, moist	276.54			
	Fine SAND, trace silt, rootlets, light brown, dry	276.24			
2					
3	SILT, grey, moist	274.10			
4					
5	some clay	271.66			
6	END OF BOREHOLE @ 6.10m BGS	271.05			
7					
8					
9					
10					
11					
12					
13					
14					

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW11-25  
 DATE COMPLETED: 22 April 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CA\WATER\PROJECTS\66211155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-F2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
	NORTHING: 4944640.009 EASTING: 591000.763	TOP OF RISER GROUND SURFACE 286.00 285.23				
1	TOPSOIL/SANDY SILT, brown, loose, moist		Concrete			
	SILT, with sand, coarse, light brown, moist	284.32				
2	SAND, trace silt, trace gravel, coarse, brown, moist	283.40				
	SAND, with gravel, trace cobbles, loose, light brown, medium grained	282.79				
3	SAND, medium grained, sub-angular granular cobbles, brown, dry	282.18				
	SAND, fine grained, loose, dark brown, moist	281.72				
4	SAND, fine grained, some pebbles, trace cobbles, very light brown, moist	281.27				
5						
6	SAND, medium grained, coarse gravel, brown	279.44				
	SAND, some black silt and clay, fine grained, light brown, dry	278.98				
7	SAND, fine grained, trace pebble, light grey, dry	278.07				
8	some sand clasts	277.00				
9	SAND, medium grained, loose, brown, dry	276.39				
10						
11	SAND and GRAVEL, coarse sand, well sorted	273.95				
12	GRAVEL, some sand, trace silt, moist	273.03	Bentonite Seal			
	SAND, some gravel, medium grained, loose, light brown, dry	272.43				
13	SAND and GRAVEL, fine sand, light grey	271.98 271.82				
14	SAND, with gravel, fine sand, brown, dry	271.21				
	SAND, with gravel, trace cobbles, light grey, coarse					

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 STATIC WATER LEVEL ▼



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW11-25  
 DATE COMPLETED: 22 April 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CAI\WATER\PROJECTS\662\11155365\TECH\GINT\LOG.DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-R2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
16	SAND, medium grained, angular, brown, loose, dry	269.68				
17	SAND, fine grained, light brown, moist	268.46				
18	Medium to fine SAND, light brown, dry	266.94				
19						
20						
21						
22						
23						
24	- increase fine sand, trace silt content from 24.39 to 25.30m BGS		← Bentonite Seal			
25						
26	0.15m gravel seam	259.32				
27	0.15m gravel seam	258.40				
28						
29	Medium to fine SAND, some gravel, grey, dry	256.88				

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 STATIC WATER LEVEL ▼



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW11-25  
 DATE COMPLETED: 22 April 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CA\WATERLOO\PROJECTS\66211155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-R2.GPJ Library File: GHD\_ENV\RO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
31	- 0.15m sand and gravel with clay at 30.64m BGS					
32	Medium to fine SAND, light brown, dry	253.22				
34	0.15m gravel seam	251.08				
35	0.15m gravel seam	249.86				
36						
37						
38						
39	CLAYEY SAND, with gravel, grey, moist	246.82				
	Coarse GRAVEL, with sand, brown, damp	246.51				
40	increase fine sand	244.99				
41	SAND and GRAVEL, fine sand, grey, damp	244.68				
	moist	244.07				
	increase coarse sand, brown	243.77				
42						
43						
44	SILT, with gravel, some sand	241.33				
	Coarse SAND, some silt, grey	241.02				

← Bentonite Seal

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 STATIC WATER LEVEL ▼



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW11-25  
 DATE COMPLETED: 22 April 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CAI\WATERLOO\PROJECTS\662\11155365\TECH\INT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-F2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
46	brown, silt	239.49				
	0.3m gravel seam some pebbles	238.89 238.58				
47	moist	237.67				
48	increasing cobbles	236.44				
49		234.92				
50	GRAVEL, with coarse sand, well sorted, brown, wet	234.92				
51						
52						
53						
54						
55	END OF BOREHOLE @ 54.88m BGS	230.35				
56			<p><u>COMPLETION DETAILS</u></p> <p>Screened interval:            239.49 to 230.35BGS            45.74 to 54.88m BGS</p> <p>Length: 9.14m            Diameter: 50mm            Slot Size: #10            Material: PVC            Seal:            284.23 to 240.11BGS            1.00 to 45.12m BGS            Material: Bentonite Seal</p> <p>Sand Pack:            240.11 to 230.35BGS            45.12 to 54.88m BGS            Material: #2 Sand</p> <p>Seal:            285.23 to 284.23BGS            0.00 to 1.00m BGS</p>			
57						
58						
59						

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 STATIC WATER LEVEL ▼



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW11-25  
 DATE COMPLETED: 22 April 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CAI\WATERLOO\PROJECTS\662\11155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-R2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
61			Material: Cement Seal			
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 STATIC WATER LEVEL ▼



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW12-25  
 DATE COMPLETED: 4 April 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CAI\WATERLOO\PROJECTS\66211155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-R2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
	NORTHING: 4945032.853 EASTING: 591608.012	TOP OF RISER GROUND SURFACE 280.70 279.63				
1	TOPSOIL, black, rootlets, moist	279.33				
2	SILTY SAND, rootlets, brown to light brown, moist					
3	SILT, trace clay, light brown, moist	277.50				
4	Fine SAND, trace silt, loose, moist	275.97				
5						
6	SANDY SILT, light brown, moist	273.53				
7						
8	SILT, light grey, dry	272.31				
9	SILTY SAND, fine sand, loose, grey, dry	271.70				
	SILT, trace sand, grey, loose, dry	271.40				
10						
11	SILTY SAND, grey, loose, dry	269.57				
	SILT, some sand, grey, loose, moist	268.96				
12						
13						
14	light grey, damp	266.22				

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼ STATIC WATER LEVEL ▼



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW12-25  
 DATE COMPLETED: 4 April 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CA\WATERLOO\PROJECTS\662\11155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-R2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
16	coarser silt, loose	264.08				
17	fine silt	263.17				
18						
19	0.15 m clay seam	260.42				
20						
21						
24	no clay	255.54	← Bentonite Seal			
26	some fine sand	253.72				
29	no sand	250.36				

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼ STATIC WATER LEVEL ▼



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW12-25  
 DATE COMPLETED: 4 April 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CAI\WATERLOO\PROJECTS\662\11155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-R2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
31						
32						
33						
34						
35	with clay	244.57				
36						
37	CLAYEY SILT, low plasticity, grey, dry	243.04	Bentonite Seal			
38						
39						
40						
41						
42						
43	CLAY, grey, dry	236.94				
44						

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼ STATIC WATER LEVEL ▼



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW12-25  
 DATE COMPLETED: 4 April 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CAIWATER\PROJECTS\66211155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-R2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
46						
47	some sand	232.37				
48	trace pebbles	231.15				
49	No recovery, water encountered	230.39				
50						
51	SILTY SAND, trace gravel, coarse sand, grey, wet some silt, increasing gravel and cobbles	228.87 228.41				
52	SAND, fine, grey, wet	227.79				
53	0.30 m silt seam	226.58				
54						
55	sand, gravel mix, black/grey, no odour END OF BOREHOLE @ 54.88m BGS	225.06 224.75				
56						
57						
58						
59						

**COMPLETION DETAILS**  
 Screened interval:  
 233.17 to 227.07BGS  
 46.46 to 52.56m BGS  
 Length: 6.1m  
 Diameter: 50mm  
 Slot Size: #10  
 Material: PVC  
 Seal:  
 278.63 to 233.17BGS  
 1.00 to 46.46m BGS  
 Material: Bentonite Seal  
 Sand Pack:  
 233.89 to 226.27BGS  
 45.74 to 53.36m BGS  
 Material: #2 Sand  
 Seal:  
 279.63 to 278.63BGS  
 0.00 to 1.00m BGS  
 Material: Cement Seal

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼ STATIC WATER LEVEL ▼



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW13-25  
 DATE COMPLETED: 26 March 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CAI\WATERLOO\PROJECTS\662\11155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-F2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
	NORTHING: 4944726.091 EASTING: 591040.88	TOP OF RISER 293.26 GROUND SURFACE 292.41				
	No recovery		Concrete			
1	TOPSOIL, some sand, dark brown, rootlets, damp	291.50 291.29				
2	SAND, coarse to fine, some pebbles, some cobbles, rootlets, brown, damp					
	SILT, trace sand, trace pebbles, grey, damp	290.28				
3						
4	SANDY SILT, some cobbles, tight, grey, dry	288.45				
5	SAND and GRAVEL, coarse, some pebbles and cobbles, trace silt, brown	287.84				
6	increasing gravel	286.92				
	less gravel, more sand	286.01				
7	SAND, some gravel, coarse sand, cobbles, brown, loose	285.40				
8	less cobbles, more pebbles	284.79				
	fine sand	284.03				
9						
10						
11	trace cobbles	281.13				
12	coarse sand	280.52				
	increasing cobbles	279.91	Bentonite Seal			
13						
14	less cobbles, medium sand	278.84				

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼ STATIC WATER LEVEL ▼



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW13-25  
 DATE COMPLETED: 26 March 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CAI\WATER\PROJECTS\66211155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-R2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
16	with cobbles, coarse sand	277.47				
17	fine sand, trace cobbles, light brown	275.95				
18	medium sand	274.73				
19						
20	fine sand	272.90				
20	0.30 m gravel seam	272.29				
21	increasing cobbles, medium sand	271.37				
21	trace cobbles, coarse sand	271.07				
22						
23	black sand	270.15				
23	medium sand, no cobbles	269.54				
24	increasing cobbles, increasing pebbles	268.93				
24	trace silt	268.02				
25						
26	GRAVEL, with coarse sand, well graded, brown, dry	266.80				
26	increasing sand	266.19				
27						
28						
29	Medium SAND, some gravel, some cobbles, brown, loose, dry	263.75				
29	increasing sand contents	262.84				

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼ STATIC WATER LEVEL ▼



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW13-25  
 DATE COMPLETED: 26 March 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CA\WATERLOO\PROJECTS\662\11155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-R2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
31						
32	trace gravel, trace cobbles	260.50				
33	0.15 m gravel seam	259.48				
34						
35	0.30 m trace silt	257.65				
36						
	0.15 m gravel seam	256.13				
37	Coarse SAND and GRAVEL, trace silt, well graded gravel, grey, dry	255.82	← Bentonite Seal			
38	GRAVEL and SILT, trace sand, well graded, light brown, moist	254.61				
	increasing medium sand	254.00				
39	SAND and GRAVEL, medium fine sand, light brown, well graded, loose, dry	253.69				
	fine sand	253.23				
40	COBBLES	252.77				
41						
42						
43	No recovery	249.72				
44						

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼ STATIC WATER LEVEL ▼



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW13-25  
 DATE COMPLETED: 26 March 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CA\WATERLOO\PROJECTS\662\11155365\TECH\GINT\LOG.DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-R2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
46	No recovery	247.41				
47						
48						
49			Bentonite Seal			
50	CLAY, trace silt, grey, medium tightness	242.10				
51	SAND, with gravel, trace cobbles, trace silt, medium coarseness, brown to grey	241.50				
52	SILT and SAND, with gravel, some cobbles, grey, loose	240.57				
53	SANDY SILT, some pebbles, light grey, dry	239.05				
54	Coarse SAND, some gravel throughout, well sorted, brown, dry	238.45				
55	moist	237.53	Sand			
56	0.38 m dry band	236.62				
57	0.05 m silt band wet, sand increasing, trace gravel	235.70	Water Level			
58			Screen			
59	no gravel, medium coarse sand	233.57				

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼ STATIC WATER LEVEL ▼



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW13-25  
 DATE COMPLETED: 26 March 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CAI\WATERLOO\PROJECTS\662\11155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-R2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
61	END OF BOREHOLE @ 61.43m BGS	230.98				
62			<p><u>COMPLETION DETAILS</u></p> <p>Screened interval:            237.07 to 230.98BGS            55.34 to 61.43m BGS</p> <p>Length: 6.09m            Diameter: 50mm            Slot Size: #10            Material: PVC</p> <p>Seal:            291.41 to 237.07BGS            1.00 to 55.34m BGS            Material: Bentonite Seal</p> <p>Sand Pack:            237.53 to 230.98BGS            54.88 to 61.43m BGS            Material: #2 Sand</p> <p>Seal:            292.41 to 291.41BGS            0.00 to 1.00m BGS            Material: Cement Seal</p>			
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼ STATIC WATER LEVEL ▼



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW14-25  
 DATE COMPLETED: 14 April 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CAI\WATERLOO\PROJECTS\662\11155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-R2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
	NORTHING: 4944999.199 EASTING: 591477.331	TOP OF RISER GROUND SURFACE				
		290.11 289.21				
1	TOPSOIL, silty, with some organics, dark brown, moist SAND, some silt, some cobbles, organics, brown	288.91	Concrete			
2	SAND, with gravel, medium coarseness, brown, moist	287.69				
3	trace gravel	286.77				
4	coarse sand with gravel, powdered boulder	286.16 285.55				
5	trace cobbles, coarse sand	284.64				
6						
7	increasing cobbles	282.20				
8						
9	very fine sand, light grey	280.06				
10						
11	coarse sand, no cobbles, trace pebbles, brown	278.54				
12			Bentonite Seal			
13	fine sand, trace cobbles	276.71				
14	no cobbles	275.49				

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼ STATIC WATER LEVEL ▼

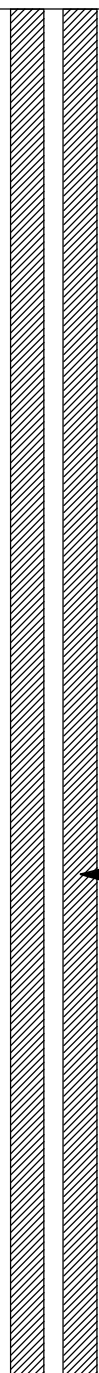


# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW14-25  
 DATE COMPLETED: 14 April 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CAI\WATERLOO\PROJECTS\662\11155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-F2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
16	medium sand	273.97				
17						
18						
19	trace pebbles	270.61				
20	increasing fine sand, no pebbles	269.39				
21						
22	some gravel, fine sand	267.87				
23	coarse sand, increasing cobbles, trace silt	266.95				
24	no silt	266.34				
25						
26	no gravel, medium to fine sand, with silt bands, moist	264.21	← Bentonite Seal			
27	coarse sand, dry	263.30				
28	some pebbles, moist	262.53				
29	increasing sand	261.47				
	GRAVEL, with coarse sand, cobbles, sub-angular, various colours, moist	261.16				

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼ STATIC WATER LEVEL ▼



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW14-25  
 DATE COMPLETED: 14 April 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CAI\WATERLOO\PROJECTS\662\11155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-F2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
31						
32	increasing sand	257.50				
33						
34	trace silt some silt with silt, trace sand	255.67 255.06 254.76				
35	decreasing silt, increasing sand Coarse SAND, some gravel, dark brown, dry	254.30 254.15 253.69				
36	medium to fine sand, some pebbles, trace cobble, light brown increasing cobbles	253.23 252.62				
37	trace silt, moist no silt, coarse sand 0.15 m silt band with pebbles, some cobbles	252.32 252.01 251.71				
38						
39	fine sand, dry increasing gravel, coarse sand	250.80 250.49				
40	SILT, some fine sand, medium tightness, brown, dry	249.57				
41						
42	trace sand in seams, moist no sand, increasing tightness	248.05 247.59				
43	trace silt increasing clay	246.52 245.92				
44	CLAY, trace silt, medium compaction, plastic, grey, moist	245.00				

← Bentonite Seal

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼ STATIC WATER LEVEL ▼



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
 CLIENT: Dufferin  
 LOCATION: 40 Darby Road, Tiny, Ontario  
 DRILLING CONTRACTOR: Insitu

HOLE DESIGNATION: MW14-25  
 DATE COMPLETED: 14 April 2025  
 DRILLING METHOD: Sonic  
 FIELD PERSONNEL: Justin Ferber  
 DRILLER: Cole

File: \\GHDNET\GHD\CA\WATER\PROJECTS\662\11155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-R2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
46	SILT, with clay, tight, grey, moist	244.09				
47	CLAY, some silt, medium tightness, plastic, grey, moist	242.56				
48	very tight, increasing silt	241.65				
49						
50						
51	with silt	238.60				
52	no silt, very hard	237.37				
53						
54						
55	trace sand, cobbles	234.48 234.33				
56	Medium SAND, some silt, some cobbles, brown, wet coarse sand, no silt, trace cobbles, some pebbles	233.57				
57	medium sand, trace pebbles	231.89				
58						
59	END OF BOREHOLE @ 58.66m BGS	230.55	<p><u>COMPLETION DETAILS</u>            Screened interval:            236.77 to 230.55BGS            52.44 to 58.66m BGS</p>			

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND  $\nabla$                       STATIC WATER LEVEL  $\blacktriangledown$



# STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Teedon Pit  
 PROJECT NUMBER: 11155365 40Y25.1  
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 LOCATION: 40 Darby Road, Tiny, Ontario  
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File: \\GHDNET\GHD\CAI\WATERLOO\PROJECTS\66211155365\TECH\GINT\LOG DATABASE\11155365 40Y25.1-TEEDON PIT LOGS-R2.GPJ Library File: GHD\_ENV\IRO\_V11.GLB Report: BEDROCK LOG Date: 26/6/25

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	Monitoring Well	RUN NUMBER	CORE RECOVERY %	RQD %
61			Length: 6.22m Diameter: 50mm Slot Size: #10 Material: PVC Seal: 288.21 to 236.77BGS 1.00 to 52.44m BGS Material: Bentonite Seal Sand Pack: 237.47 to 230.55BGS 51.74 to 58.66m BGS Material: #2 Sand ----- Seal: 289.21 to 288.21BGS 0.00 to 1.00m BGS Material: Cement Seal			
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼ STATIC WATER LEVEL ▼

# **Appendix E**

## **Correspondence With MECP**

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**Re: Teedon Pit - ECA# 1293-CF7J3M - Notice of Sump Pond Emergency Overflow**

---

**From** Richard Chatfield <Richard.Chatfield@ghd.com>

**Date** Wed 4/23/2025 10:35 AM

**To** Athron, Greg (MECP) <Greg.Athron@ontario.ca>; Zavitz, Matthew (CRH Canada Group Inc.) <Matthew.Zavitz@ca.crh.com>

**Cc** adam.cracknell@ca.crh.com <adam.cracknell@ca.crh.com>

**Bcc** 11155365 <11155365@ghd.com>

 2 attachments (3 MB)

WT2505331 Your Reference 11155365-10Y25 1 Final Version 0.pdf; WT2507382 Your Reference 11155365-10Y25 1 Final Version 0.pdf;

Good Morning Greg,

Thanks for the call yesterday. Attached are the laboratory analytical reports for the SW samples collected at Teedon this Spring. The following results are provided:

**March 17th** - Routine pre-washing sample

WT2505331 - SW-11155365-031725-RC-01 @ SW1 (Sump Pond)

WT2505331 - SW-11155365-031725-RC-02 @ SW2 (Unnamed Pond)

**April 3rd** - Emergency overflow (discharge) sample

WT2507382 - SW-11155365-040425-JF-01 @ SW1 (Sump Pond - represents water at the inlet of the overflow pipe)

The results of the April 3, 2025 sample were compared directly with the results of the SW2 sample collected on March 17<sup>th</sup> and previous events. The April 3<sup>rd</sup> results are generally consistent with previous sample results collected during non-overflow conditions. A couple parameters are slightly elevated compared to the historical ranges observed at SW2 (sulphate, total/dissolved molybdenum, total strontium); however, the concentrations of these parameters are well below provincial/federal surface water quality guidelines and within the ranges observed within the local groundwater (as sampled at the private wells). This would be expected as the bulk of the water in the ponds was supplied by PW1-09.

Thanks,

**Richard Chatfield** (he/him)

**P.Eng. (ON)**

**Engineer / Project Manager**

**GHD**

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455 Phillip St Unit#100A Waterloo Ontario N2L 3X2 Canada

**D** +1 519 340 3870 **M** +1 519 362 5855 **E** [richard.chatfield@ghd.com](mailto:richard.chatfield@ghd.com)

Please let me know if you need anything else in the short term, otherwise we'll plan to provided the details in the 2025 AMR.

---

**From:** Athron, Greg (MECP)

**Sent:** Tuesday, April 22, 2025 3:49 PM

**To:** Richard Chatfield; Zavitz, Matthew (CRH Canada Group Inc.)

**Cc:** adam.cracknell@ca.crh.com

**Subject:** FW: Teedon Pit - ECA# 1293-CF7J3M - Notice of Sump Pond Emergency Overflow

Adam, Richard and Matthew

I spoke to Adam about this situation back on April 4<sup>th</sup>. Thanks for your dedication.

Adam explained the circumstances of the situation and why the aggregates wash pond system overtopped. The rainfall amounts in late March and early April were very significant.

I have also spoke with Richard this morning and asked that he provide the lab analysis for the sample taken March 17 and the one(s) taken on April 3<sup>rd</sup> (more likely April 4<sup>th</sup>). Richard expects to be able to get these to me tomorrow.

If you have any questions, please just ask.

Greg Athron  
Environmental Compliance Officer  
Barrie District Office  
Ministry of the Environment, Conservation and Parks  
54 Cedar Pointe Dr.  
Unit 1201  
Barrie, ON  
L4N 5R7

---

**From:** Hyde, Chris (MECP) <Chris.Hyde@ontario.ca>

**Sent:** Friday, April 4, 2025 9:15 AM

**To:** Athron, Greg (MECP) <Greg.Athron@ontario.ca>; Wenzel, Dylan (MECP) <Dylan.Wenzel@ontario.ca>

**Cc:** Allen, Brad (MECP) <Brad.Allen@ontario.ca>

**Subject:** FW: Teedon Pit - ECA# 1293-CF7J3M - Notice of Sump Pond Emergency Overflow

Hi Guys,

Please see below for your review and response.

Thanks

Chris

*Chris Hyde*

District Manager  
Barrie District Office  
Ministry of the Environment, Conservation and Parks  
54 Cedar Point Drive, Unit 1201  
Barrie, Ontario L4N 5R7  
Office: (800) 890-8511 · Fax: (705) 739-6440  
Cell: 705-791-0945

24/7 Spills Action Centre: (800) 268-6060

24/7 Pollution Hotline: (866) 663-8477 · [moe.tips.moe@ontario.ca](mailto:moe.tips.moe@ontario.ca)

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**From:** Richard Chatfield <[Richard.Chatfield@ghd.com](mailto:Richard.Chatfield@ghd.com)>

**Sent:** Thursday, April 3, 2025 4:19 PM

**To:** Hyde, Chris (MECP) <[Chris.Hyde@ontario.ca](mailto:Chris.Hyde@ontario.ca)>

**Cc:** Zavitz, Matthew <[Matthew.Zavitz@ca.crh.com](mailto:Matthew.Zavitz@ca.crh.com)>; Cracknell, Adam (CRH Canada Group Inc.) <[adam.cracknell@ca.crh.com](mailto:adam.cracknell@ca.crh.com)>; Kevin Mitchell ([kevin.mitchell@ca.crh.com](mailto:kevin.mitchell@ca.crh.com)) <[kevin.mitchell@ca.crh.com](mailto:kevin.mitchell@ca.crh.com)>

**Subject:** Teedon Pit - ECA# 1293-CF7J3M - Notice of Sump Pond Emergency Overflow

**CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.**

Good Afternoon Chris,

On behalf of Dufferin, I'm providing you notice that an emergency overflow of the aggregate wash system ponds at the Teedon Pit (ECA# 1293-CF7J3M) occurred last night / is on-going. The overflow is occurring as a result of the large freshet and yesterday's intense precipitation.

Of note:

- Aggregate washing has not started for the year and no washing has occurred since October 2024.
- Wash ceased early last year due to a pump failure, so the ponds were left more full than typical for the end of a season.
- There are currently no pumps installed in either of the recirculation cell or sump pond, so the site has no way to mechanically reduce the water level within the ponds and gravity overflow of stormwater is anticipated to continue, following precipitation, until washing begins later this month and excess water can be used to fill the settling cells.
- No water is being provided to the aggregate washing system from PW1-09 under PTTW No. 6258-BRDJ2M and no water will be supplied to the system until the appropriate freeboard can be established within the Sump Pond.
- The routine (pre-washing) sample was collected on March 17, 2025 (ECA Table 1); no atypical water quality was noted.

The Site collected an emergency overflow sample today (ECA Table 2) that is being submitted for laboratory analysis, but I have no reason to believe that the results would be significantly different from the March 17th, 2025 samples. Once washing operations commence for the year we will collect the next routine surface water quality samples.

Assuming you have no immediate concerns, we will fully document the event in the 2025 AMR.

Let us know if you have any questions or would like to discuss.

Thanks,

**Richard Chatfield** (he/him)

P.Eng. (ON)

Engineer / Project Manager

**GHD**

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